

C.H. Louis PASTEUR Dole

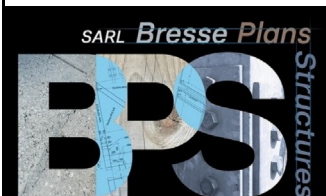
Extension et restructuration de la dialyse

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Récapitulatif des données de l'ouvrage

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

1. VERSION DU PROGRAMME ET NUMÉRO DE LICENCE

Version: 2025

Numéro de licence: 154311

2. DONNÉES GÉNÉRALES DE LA STRUCTURE

Projet: Dole_Dialyse-Ext_DCE_28-05-25_RF

Clé: Dole_Dialyse-Ext_DCE_28-05-25_RF

3. NORMES CONSIDÉRÉES

Béton: Eurocode 2

Aciers formés à froid: Eurocodes 3 et 4

Aciers laminés et rcst. soudés: Eurocodes 3 et 4

Feu: EN1992-1-2:2004 - Calcul des structures en béton - Partie 1-2: Règles générales - Calcul du comportement au feu, 5.7.

Catégorie d'utilisation: B. Bureaux

4. ACTIONS CONSIDÉRÉES

4.1. Gravitationnelles

Niveau	Charges d'exp. (kN/m ²)	Charges permanentes (kN/m ²)
Plancher 2	1.0	1.5
Plancher 1	2.5	1.8
Fondation	0.0	0.0

4.2. Vent

NF EN 1991-1-4 (2005)

Eurocode 1: Actions sur les structures.

Partie 1-4: Actions Générales - Actions du vent.

Document National d'Application pour la France (NF EN 1991-1-4/NA).

Région: 1

Zone: 1

Angle formé par l'axe Y avec le Nord géographique : 0.0 °

Catégorie du terrain: Catégorie IV

Période de service (années): 50

Orographie du terrain: Plane

Largeurs de bande		
Niveaux	Largeur de bande Y (m)	Largeur de bande X (m)
Dans tous les niveaux	10.00	10.00

L'analyse des effets du 2nd ordre n'est pas réalisée

Coefficients de Charges

+X: 1.00

-X: 1.00



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+Y: 1.00

-Y: 1.00

Charge de vent			
Niveau	Vent +X (kN)	Vent -X (kN)	Vent Y (kN)
Plancher 2	5.041	-2.470	5.041
Plancher 1	10.067	-4.933	10.067

4.3. Séisme

Norme utilisée: NF EN 1998-1/NA

NF EN 1998-1/NA (2007)

Eurocode 8 : Calcul des structures pour leur résistance aux séismes

Partie 1 : Règles générales, actions sismiques et règles pour les bâtiments

Annexe nationale à la NF EN 1998-1:2005

Méthode de calcul: Analyse modale spectrale (NF EN 1998-1/NA, 4.3.3.3)

4.3.1. Données générales de séisme

Caractérisation de l'emplacement

Zone sismique (Décret n° 2010-1255): 2 (Faible)

Type de sol (NF EN 1998-1/NA, 3.1.2): A

Système structural

Géométrie en hauteur (NF EN 1998-1/NA, 4.2.3.3): Irrégulier

qx: Coefficient de comportement (X) (NF EN 1998-1/NA, 5.2.2.2 et 6.3.2)

qx : 1.50

qy: Coefficient de comportement (Y) (NF EN 1998-1/NA, 5.2.2.2 et 6.3.2)

qy : 1.50

Importance de l'ouvrage (NF EN 1998-1/NA, 4.2.5 et Tableau 4.3): Catégorie IV

Paramètres de calcul

Nombre de modes de vibration qui interviennent dans l'analyse: Selon la norme

Degrés de liberté intervenant dans l'analyse: Les étages en infrastructure n'ont pas été pris en compte dans le modèle dynamique

Fraction de charge d'exploitation

: 0.50

Fraction de charge de neige

: 0.50

Effets de la composante sismique verticale

Ne sont pas considérés

L'analyse des effets du 2nd ordre est réalisée

Valeur multiplicatrice des déplacements 1.00



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Critère de ferrailage à appliquer pour la ductilité: Ductilité moyenne

Facteurs réducteurs de l'inertie (NF EN 1998-1/NA, 4.3.1)

Poutres primaires contre l'action sismique: 0.5

Planchers primaires face à l'action sismique: 0.5

Poteaux primaires face à l'action sismique: 0.5

Noyaux: 0.5

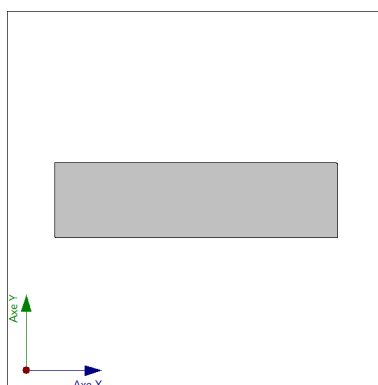
Murs: 0.5

Murs en maçonnerie: 0.5

Directions d'analyse

Action sismique selon X

Action sismique selon Y



Projection en plan de l'ouvrage

4.4. Feu

Données par niveau				
Niveau	R. req.	F. Part.	Revêtement des éléments en béton	
			Inférieur (planchers et poutres)	Poteaux et murs
Plancher 2	R 60	-	Sans revêtement ignifuge	Sans revêtement ignifuge
Plancher 1	R 60	-	Sans revêtement ignifuge	Sans revêtement ignifuge

Notes:

- R. req.: résistance requise, temps durant lequel un élément doit maintenir sa capacité portante, exprimé en minutes.
- F. Part.: indique si le plancher possède une fonction de compartimentage.

4.5. Hypothèses de charge

Automatiques	Poids propre Charges permanentes Charge d'exploitation Séisme X Séisme Y Vent +X exc.+ Vent +X exc.- Vent -X exc.+ Vent -X exc.- Vent +Y exc.+ Vent +Y exc.- Vent -Y exc.+ Vent -Y exc.-
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4.6. Diagrammes des pressions sur les murs

Aucun diagramme des pressions n'a été défini

4.7. Récapitulatif des charges

Charges spéciales introduites (en kN, kN/m et kN/m²)

Groupe	Hypothèse	Type	Valeur	Coordonnées
Plancher 1	Charges permanentes	Surfacique	1.80	(0.48,1.99) (3.20,1.99) (3.35,1.99) (3.35,6.58) (3.35,6.80) (3.25,6.80) (3.20,6.75) (0.15,6.75) (0.15,1.99) (0.18,1.99)
	Charges permanentes	Surfacique	1.80	(6.70,1.84) (6.70,6.58) (6.70,6.80) (6.60,6.80) (6.55,6.75) (3.50,6.75) (3.35,6.80) (3.35,6.58) (3.35,1.84)
	Charges permanentes	Surfacique	1.80	(8.34,1.84) (10.05,1.84) (10.05,6.58) (10.05,6.80) (9.95,6.80) (9.90,6.75) (6.85,6.75) (6.70,6.80) (6.70,6.58) (6.70,1.84) (8.09,1.84) (8.09,1.97) (8.34,1.97)
	Charges permanentes	Surfacique	1.80	(12.63,1.84) (13.40,1.84) (13.40,6.58) (13.40,6.80) (13.30,6.80) (13.25,6.75) (10.20,6.75) (10.05,6.80) (10.05,6.58) (10.05,1.84) (12.38,1.84) (12.38,1.97) (12.63,1.97)
	Charges permanentes	Surfacique	1.80	(16.75,6.58) (16.75,6.80) (16.65,6.80) (16.60,6.75) (13.55,6.75) (13.40,6.80) (13.40,6.58) (13.40,1.84) (14.84,1.84) (14.84,1.97) (15.09,1.97) (15.09,1.84) (16.75,1.84)
	Charges permanentes	Surfacique	1.80	(19.95,4.23) (19.95,6.42) (19.95,6.73) (19.95,6.75) (16.90,6.75) (16.75,6.80) (16.75,6.58) (16.75,1.84) (20.10,1.84) (20.10,4.13) (20.00,4.13)
	Charges permanentes	Surfacique	1.80	(23.39,1.99) (23.39,4.76) (23.44,4.86) (23.54,4.86) (23.54,6.80) (23.44,6.80) (23.39,6.75) (20.25,6.75) (20.25,6.73) (20.25,6.42) (20.25,4.23) (20.20,4.13) (20.10,4.13) (20.10,1.99)
	Charges permanentes	Surfacique	1.80	(25.04,6.58) (25.04,6.80) (24.94,6.80) (24.89,6.75) (23.69,6.75) (23.54,6.80) (23.54,4.86) (23.64,4.86) (23.69,4.91) (25.04,4.91)
	Charges permanentes	Surfacique	1.80	(26.42,6.75) (25.19,6.75) (25.04,6.80) (25.04,6.58) (25.04,4.91) (26.42,4.91) (26.42,4.86) (26.42,6.80)
	Charges permanentes	Surfacique	1.80	(23.69,4.61) (23.69,1.99) (23.64,1.84) (25.04,1.84) (25.04,4.61)
	Charges permanentes	Surfacique	1.80	(26.42,4.61) (25.04,4.61) (25.04,1.84) (26.30,1.84) (26.30,1.97) (26.42,1.97) (26.42,4.66)
	Charges permanentes	Surfacique	1.80	(25.04,0.00) (25.04,1.84) (23.64,1.84) (23.64,1.74) (23.54,1.69) (20.25,1.69) (20.10,1.69) (20.10,0.00)
	Charges permanentes	Surfacique	1.80	(26.42,1.72) (26.30,1.72) (26.30,1.84) (25.04,1.84) (25.04,0.00) (26.42,0.00)
	Charges permanentes	Surfacique	1.80	(20.10,0.00) (20.10,1.84) (16.75,1.84) (15.09,1.84) (15.09,1.72) (14.84,1.72) (14.84,1.84) (13.40,1.84) (13.40,0.00)
	Charges permanentes	Surfacique	1.80	(13.40,0.00) (13.40,1.84) (12.63,1.84) (12.63,1.72) (12.38,1.72) (12.38,1.84) (10.05,1.84) (8.34,1.84) (8.34,1.72) (8.09,1.72) (8.09,1.84) (6.70,1.84) (6.70,0.00)



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Groupe	Hypothèse	Type	Valeur	Coordonnées
	Charges permanentes	Surfacique	1.80	(6.70,0.00) (6.70,1.84) (3.50,1.84) (3.50,1.69) (3.20,1.69) (0.48,1.69) (0.17,1.69) (0.15,1.69) (0.00,1.74) (0.00,0.10) (0.10,0.10) (0.10,0.00)
	Charge d'exploitation	Surfacique	2.50	(0.48,1.99) (3.20,1.99) (3.35,1.99) (3.35,6.58) (3.35,6.80) (3.25,6.80) (3.20,6.75) (0.15,6.75) (0.15,1.99) (0.18,1.99)
	Charge d'exploitation	Surfacique	2.50	(6.70,0.00) (6.70,1.84) (3.50,1.84) (3.50,1.69) (3.20,1.69) (0.48,1.69) (0.17,1.69) (0.15,1.69) (0.00,1.74) (0.00,0.10) (0.10,0.10) (0.10,0.00)
	Charge d'exploitation	Surfacique	2.50	(6.70,1.84) (6.70,6.58) (6.70,6.80) (6.60,6.80) (6.55,6.75) (3.50,6.75) (3.35,6.80) (3.35,6.58) (3.35,1.84)
	Charge d'exploitation	Surfacique	2.50	(8.34,1.84) (10.05,1.84) (10.05,6.58) (10.05,6.80) (9.95,6.80) (9.90,6.75) (6.85,6.75) (6.70,6.80) (6.70,6.58) (6.70,1.84) (8.09,1.84) (8.09,1.97) (8.34,1.97)
	Charge d'exploitation	Surfacique	2.50	(13.40,0.00) (13.40,1.84) (12.63,1.84) (12.63,1.72) (12.38,1.72) (12.38,1.84) (10.05,1.84) (8.34,1.84) (8.34,1.72) (8.09,1.72) (8.09,1.84) (6.70,1.84) (6.70,0.00)
	Charge d'exploitation	Surfacique	2.50	(12.63,1.84) (13.40,1.84) (13.40,6.58) (13.40,6.80) (13.30,6.80) (13.25,6.75) (10.20,6.75) (10.05,6.80) (10.05,6.58) (10.05,1.84) (12.38,1.84) (12.38,1.97) (12.63,1.97)
	Charge d'exploitation	Surfacique	2.50	(16.75,6.58) (16.75,6.80) (16.65,6.80) (16.60,6.75) (13.55,6.75) (13.40,6.80) (13.40,6.58) (13.40,1.84) (14.84,1.84) (14.84,1.97) (15.09,1.97) (15.09,1.84) (16.75,1.84)
	Charge d'exploitation	Surfacique	2.50	(20.10,0.00) (20.10,1.84) (16.75,1.84) (15.09,1.84) (15.09,1.72) (14.84,1.72) (14.84,1.84) (13.40,1.84) (13.40,0.00)
	Charge d'exploitation	Surfacique	2.50	(19.95,4.23) (19.95,6.42) (19.95,6.73) (19.95,6.75) (16.90,6.75) (16.75,6.80) (16.75,6.58) (16.75,1.84) (20.10,1.84) (20.10,4.13) (20.00,4.13)
	Charge d'exploitation	Surfacique	2.50	(23.39,1.99) (23.39,4.76) (23.44,4.86) (23.54,4.86) (23.54,6.80) (23.44,6.80) (23.39,6.75) (20.25,6.75) (20.25,6.73) (20.25,6.42) (20.25,4.23) (20.20,4.13) (20.10,4.13) (20.10,1.99)
	Charge d'exploitation	Surfacique	2.50	(25.04,6.58) (25.04,6.80) (24.94,6.80) (24.89,6.75) (23.69,6.75) (23.54,6.80) (23.54,4.86) (23.64,4.86) (23.69,4.91) (25.04,4.91)
	Charge d'exploitation	Surfacique	2.50	(26.42,6.75) (25.19,6.75) (25.04,6.80) (25.04,6.58) (25.04,4.91) (26.42,4.91) (26.42,4.86) (26.42,6.80)
	Charge d'exploitation	Surfacique	2.50	(20.10,1.70) (23.61,1.70) (23.61,0.02) (20.26,0.01) (20.27,1.70)
	Charge d'exploitation	Surfacique	10.00	(23.61,1.69) (24.86,1.68) (24.88,0.01) (23.62,0.00) (23.60,1.68)
	Charge d'exploitation	Surfacique	10.00	(23.69,4.61) (23.69,1.99) (23.64,1.84) (25.04,1.84) (25.04,4.61)
	Charge d'exploitation	Surfacique	10.00	(26.42,4.61) (25.04,4.61) (25.04,1.84) (26.30,1.84) (26.30,1.97) (26.42,1.97) (26.42,4.66)
	Charge d'exploitation	Surfacique	10.00	(26.42,1.72) (26.30,1.72) (26.30,1.84) (25.04,1.84) (25.04,0.00) (26.42,0.00)



Récapitulatif des données de l'ouvrage

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Date: 25/08/25

Groupe	Hypothèse	Type	Valeur	Coordonnées
Plancher 2	Charges permanentes	Surfacique	1.50	(3.35,1.84) (8.22,1.84) (12.51,1.84) (14.97,1.84) (20.10,1.84) (23.54,1.84) (23.54,4.76) (26.42,4.76) (26.42,6.90) (25.04,6.90) (23.54,6.90) (20.10,6.90) (16.75,6.90) (13.40,6.90) (10.05,6.90) (6.70,6.90) (3.35,6.90) (0.00,6.90) (0.00,1.84) (0.33,1.84)
	Charges permanentes	Surfacique	1.50	(26.42,1.84) (23.54,1.84) (20.10,1.84) (14.97,1.84) (12.51,1.84) (8.22,1.84) (3.35,1.84) (0.33,1.84) (0.00,1.84) (0.00,0.00) (26.42,0.00)
	Charges permanentes	Surfacique	1.50	(26.42,1.84) (26.42,4.76) (23.54,4.76) (23.54,1.84)
	Charge d'exploitation	Surfacique	1.00	(3.35,1.84) (8.22,1.84) (12.51,1.84) (14.97,1.84) (20.10,1.84) (23.54,1.84) (23.54,4.76) (26.42,4.76) (26.42,6.90) (25.04,6.90) (23.54,6.90) (20.10,6.90) (16.75,6.90) (13.40,6.90) (10.05,6.90) (6.70,6.90) (3.35,6.90) (0.00,6.90) (0.00,1.84) (0.33,1.84)
	Charge d'exploitation	Surfacique	1.00	(26.42,1.84) (23.54,1.84) (20.10,1.84) (14.97,1.84) (12.51,1.84) (8.22,1.84) (3.35,1.84) (0.33,1.84) (0.00,1.84) (0.00,0.00) (26.42,0.00)
	Charge d'exploitation	Surfacique	1.00	(26.42,1.84) (26.42,4.76) (23.54,4.76) (23.54,1.84)

5. ÉTATS LIMITES

E.L.U. de rupture. Béton E.L.U. de rupture. Béton en fondations Contraintes sur le terrain (A1 - Ensemble B)	EC Neige: Altitude inférieure ou égale à 1000 m
Déplacements	Actions caractéristiques

6. SITUATIONS DE PROJET

Pour les différentes situations du projet, les combinaisons des actions se définiront en accord avec les critères suivants:

- **Situations durables ou transitoires**
 - Avec coefficients de combinaison
 - Sans coefficients de combinaison
- **Situations sismiques**
 - Avec coefficients de combinaison
 - Sans coefficients de combinaison

- Où:



Récapitulatif des données de l'ouvrage

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- G_k Action permanente
- P_k Action de précontrainte
- Q_k Action variable
- A_E Action sismique
- γ_G Coefficient partiel de sécurité des actions permanentes
- γ_P Coefficient partiel de sécurité de l'action de précontrainte
- $\gamma_{Q,1}$ Coefficient partiel de sécurité de l'action variable principale
- $\gamma_{Q,i}$ Coefficient partiel de sécurité des actions variables d'accompagnement
- γ_{AE} Coefficient partiel de sécurité de l'action sismique
- $\psi_{p,1}$ Coefficient de combinaison de l'action variable principale
- $\psi_{a,i}$ Coefficient de combinaison des actions variables d'accompagnement

6.1. Coefficients partiels de sécurité (γ) et coefficients de combinaison (ψ)

Pour chaque situation de projet et état limite les coefficients à utiliser seront:

E.L.U. de rupture. Béton: Eurocode 2

E.L.U. de rupture. Béton en fondations: Eurocode 2

Contraintes sur le terrain (A1 - Ensemble B)

Durable ou transitoire				
	Coefficients partiels de sécurité (γ)		Coefficients de combinaison (ψ)	
	Favorable	Défavorable	Principal (ψ_p)	Accompagnement (ψ_a)
Charge permanente (G)	1.000	1.350	-	-
Surcharge (Q)	0.000	1.500	1.000	0.700
Vent (Q)	0.000	1.500	1.000	0.600

Sismique				
	Coefficients partiels de sécurité (γ)		Coefficients de combinaison (ψ)	
	Favorable	Défavorable	Principal (ψ_p)	Accompagnement (ψ_a)
Charge permanente (G)	1.000	1.000	-	-
Surcharge (Q)	0.000	1.000	0.300	0.300
Vent (Q)	0.000	1.000	0.000	0.000
Séisme (E)	-1.000	1.000	1.000	0.300 ⁽¹⁾

Notes:

⁽¹⁾ Fraction des sollicitations sismiques à prendre en compte dans la direction orthogonale: Les sollicitations obtenues des résultats de l'analyse dans chaque direction orthogonale seront combinées avec le 30 % de celles de l'autre.

Déplacements

Actions variables sans séisme		
	Coefficients partiels de sécurité (γ)	
	Favorable	Défavorable
Charge permanente (G)	1.000	1.000
Surcharge (Q)	0.000	1.000
Vent (Q)	0.000	1.000



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Sismique		
	Coefficients partiels de sécurité (γ)	
	Favorable	Défavorable
Charge permanente (G)	1.000	1.000
Surcharge (Q)	0.000	1.000
Vent (Q)		
Séisme (E)	-1.000	1.000

6.2. Combinaisons

■ Noms des hypothèses

PP	Poids propre
G	Charges permanentes
Qa	Charge d'exploitation
V(+X exc.+)	Vent +X exc.+
V(+X exc.-)	Vent +X exc.-
V(-X exc.+)	Vent -X exc.+
V(-X exc.-)	Vent -X exc.-
V(+Y exc.+)	Vent +Y exc.+
V(+Y exc.-)	Vent +Y exc.-
V(-Y exc.+)	Vent -Y exc.+
V(-Y exc.-)	Vent -Y exc.-
SX	Séisme X
SY	Séisme Y

■ E.L.U. de rupture. Béton

■ E.L.U. de rupture. Béton en fondations

■ Contraintes sur le terrain (A1 - Ensemble B)

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.350	1.350											
3	1.000	1.000	1.500										
4	1.350	1.350	1.500										
5	1.000	1.000		1.500									
6	1.350	1.350		1.500									
7	1.000	1.000	1.050	1.500									
8	1.350	1.350	1.050	1.500									
9	1.000	1.000	1.500	0.900									
10	1.350	1.350	1.500	0.900									
11	1.000	1.000			1.500								
12	1.350	1.350			1.500								
13	1.000	1.000	1.050		1.500								
14	1.350	1.350	1.050		1.500								
15	1.000	1.000	1.500		0.900								
16	1.350	1.350	1.500		0.900								
17	1.000	1.000				1.500							
18	1.350	1.350				1.500							
19	1.000	1.000	1.050			1.500							
20	1.350	1.350	1.050			1.500							



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Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
21	1.000	1.000	1.500			0.900							
22	1.350	1.350	1.500			0.900							
23	1.000	1.000					1.500						
24	1.350	1.350					1.500						
25	1.000	1.000	1.050				1.500						
26	1.350	1.350	1.050				1.500						
27	1.000	1.000	1.500				0.900						
28	1.350	1.350	1.500				0.900						
29	1.000	1.000						1.500					
30	1.350	1.350						1.500					
31	1.000	1.000	1.050					1.500					
32	1.350	1.350	1.050					1.500					
33	1.000	1.000	1.500					0.900					
34	1.350	1.350	1.500					0.900					
35	1.000	1.000							1.500				
36	1.350	1.350							1.500				
37	1.000	1.000	1.050						1.500				
38	1.350	1.350	1.050						1.500				
39	1.000	1.000	1.500						0.900				
40	1.350	1.350	1.500						0.900				
41	1.000	1.000								1.500			
42	1.350	1.350								1.500			
43	1.000	1.000	1.050							1.500			
44	1.350	1.350	1.050							1.500			
45	1.000	1.000	1.500							0.900			
46	1.350	1.350	1.500							0.900			
47	1.000	1.000									1.500		
48	1.350	1.350									1.500		
49	1.000	1.000	1.050								1.500		
50	1.350	1.350	1.050								1.500		
51	1.000	1.000	1.500								0.900		
52	1.350	1.350	1.500								0.900		
53	1.000	1.000										-0.300	-1.000
54	1.000	1.000	0.300									-0.300	-1.000
55	1.000	1.000										0.300	-1.000
56	1.000	1.000	0.300									0.300	-1.000
57	1.000	1.000										-1.000	-0.300
58	1.000	1.000	0.300									-1.000	-0.300
59	1.000	1.000										-1.000	0.300
60	1.000	1.000	0.300									-1.000	0.300
61	1.000	1.000										0.300	1.000
62	1.000	1.000	0.300									0.300	1.000
63	1.000	1.000										-0.300	1.000
64	1.000	1.000	0.300									-0.300	1.000
65	1.000	1.000										1.000	0.300
66	1.000	1.000	0.300									1.000	0.300
67	1.000	1.000										1.000	-0.300
68	1.000	1.000	0.300									1.000	-0.300

■ Déplacements

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.000	1.000	1.000										
3	1.000	1.000		1.000									
4	1.000	1.000	1.000	1.000									
5	1.000	1.000			1.000								
6	1.000	1.000	1.000		1.000								
7	1.000	1.000				1.000							



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Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
8	1.000	1.000	1.000			1.000							
9	1.000	1.000					1.000						
10	1.000	1.000	1.000				1.000						
11	1.000	1.000						1.000					
12	1.000	1.000	1.000					1.000					
13	1.000	1.000							1.000				
14	1.000	1.000	1.000						1.000				
15	1.000	1.000								1.000			
16	1.000	1.000	1.000							1.000			
17	1.000	1.000									1.000		
18	1.000	1.000	1.000								1.000		
19	1.000	1.000										-1.000	
20	1.000	1.000	1.000									-1.000	
21	1.000	1.000										1.000	
22	1.000	1.000	1.000									1.000	
23	1.000	1.000											-1.000
24	1.000	1.000	1.000										-1.000
25	1.000	1.000											1.000
26	1.000	1.000	1.000										1.000

7. DONNÉES GÉOMÉTRIQUES DES GROUPES ET NIVEAUX

Groupe	Nom du groupe	Niveau	Nom niveau	Hauteur	Cote
2	Plancher 2	2	Plancher 2	3.45	6.89
1	Plancher 1	1	Plancher 1	3.84	3.44
0	Fondation				-0.40

8. DONNÉES GÉOMÉTRIQUES DES POTEAUX, NOYAUX ET MURS

8.1. Poteaux

GI : groupe initial

GF : groupe final

Ang : angle du poteau en degrés

Données des poteaux

Référence	Coord(P.Fixe)	GI- GF	Liaison extérieure	Ang.	Point fixe	Épaisseur d'appuis
P2	(26.42, 0.00)	2-2	Sans liaison extérieure	0.0	Centre	
P3	(0.00, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P4	(26.42, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P5	(0.33, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P6	(3.35, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P7	(6.70, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P8	(10.05, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P9	(13.40, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P10	(16.75, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P11	(20.10, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P12	(25.04, 6.58)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P13	(0.33, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P14	(3.35, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P15	(6.70, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P16	(10.05, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80



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Référence	Coord(P.Fixe)	GI- GF	Liaison extérieure	Ang.	Point fixe	Épaisseur d'appuis
P17	(13.40, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P18	(16.75, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P19	(20.10, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P20	(25.04, 1.84)	0-1	Avec liaison extérieure	0.0	Centre	0.80
P21	(0.00, 0.00)	1-2	Sans liaison extérieure	0.0	Centre	
P22	(0.00, 1.84)	1-1	Sans liaison extérieure	0.0	Centre	
P23	(26.42, 1.84)	1-2	Sans liaison extérieure	0.0	Centre	
P25	(6.70, 0.00)	1-1	Sans liaison extérieure	0.0	Centre	
P27	(13.40, 0.00)	1-1	Sans liaison extérieure	0.0	Centre	
P29	(20.10, 0.00)	1-1	Sans liaison extérieure	0.0	Centre	
P30	(25.04, 0.00)	1-1	Sans liaison extérieure	0.0	Centre	
P31	(8.22, 1.84)	1-2	Sans liaison extérieure	0.0	Centre	
P32	(12.51, 1.84)	1-2	Sans liaison extérieure	0.0	Centre	
P33	(14.97, 1.84)	1-2	Sans liaison extérieure	0.0	Centre	
P34	(20.10, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P35	(16.75, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P36	(13.40, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P37	(10.05, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P38	(6.70, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P39	(3.35, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P40	(20.10, 4.23)	1-1	Sans liaison extérieure	0.0	Centre	
P41	(23.54, 1.84)	1-1	Sans liaison extérieure	0.0	Centre	
P42	(23.54, 4.76)	1-1	Sans liaison extérieure	0.0	Centre	
P43	(26.42, 4.76)	1-1	Sans liaison extérieure	0.0	Centre	
P44	(23.54, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	
P48	(25.04, 6.90)	1-1	Sans liaison extérieure	0.0	Centre	

8.2. Murs

- Les coordonnées du sommet initial et du sommet final sont absolues.
- Les dimensions sont exprimées en mètres.

Données géométriques du mur

Référence	Type mur	GI- GF	Sommets		Niveau	Dimensions Gauche+Droite=Total
			Initial	Final		
M3	Mur en blocs de béton	1-2	(0.00, 6.90)	(0.00, 1.84)	2	0.1+0.1=0.2
M4	Mur en blocs de béton	1-2	(0.00, 6.90)	(3.35, 6.90)	2	0.1+0.1=0.2
M5	Mur en blocs de béton	1-2	(3.35, 6.90)	(6.70, 6.90)	2	0.1+0.1=0.2
M6	Mur en blocs de béton	1-2	(6.70, 6.90)	(10.05, 6.90)	2	0.1+0.1=0.2
M7	Mur en blocs de béton	1-2	(10.05, 6.90)	(13.40, 6.90)	2	0.1+0.1=0.2
M8	Mur en blocs de béton	1-2	(13.40, 6.90)	(16.75, 6.90)	2	0.1+0.1=0.2
M9	Mur en blocs de béton	1-2	(16.75, 6.90)	(20.10, 6.90)	2	0.1+0.1=0.2
M10	Mur en blocs de béton	1-2	(20.10, 6.90)	(23.54, 6.90)	2	0.1+0.1=0.2
M11	Mur en blocs de béton	1-2	(23.54, 6.90)	(25.04, 6.90)	2	0.1+0.1=0.2
M12	Mur en blocs de béton	1-2	(25.04, 6.90)	(26.42, 6.90)	2	0.1+0.1=0.2
M13	Mur en blocs de béton	1-2	(26.42, 4.76)	(23.54, 4.76)	2	0.1+0.1=0.2
M14	Mur en blocs de béton	1-2	(23.54, 4.76)	(23.54, 1.84)	2	0.1+0.1=0.2
M15	Mur en blocs de béton	1-2	(23.54, 1.84)	(20.10, 1.84)	2	0.1+0.1=0.2



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Référence	Type mur	GI- GF	Sommets Initial Final	Niveau	Dimensions Gauche+Droite=Total
M16	Mur en blocs de béton	1-2	(20.10, 6.90) (20.10, 6.58)	2	0.1+0.1=0.2
M17	Mur en blocs de béton	1-2	(20.10, 6.58) (20.10, 4.23)	2	0.1+0.1=0.2
M1	Mur en blocs de béton	1-2	(0.00, 1.84) (0.33, 1.84)	2	0.1+0.1=0.2
M2	Mur en blocs de béton	1-2	(0.33, 1.84) (3.35, 1.84)	2	0.1+0.1=0.2

Semelle du mur

Référence	Semelle du mur
M3	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M4	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M5	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M6	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M7	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M8	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M9	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M10	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M11	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M12	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M13	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M14	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M15	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M16	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M17	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M1	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60
M2	Sans liaison extérieure Débords: gch.:0.05 drt.:0.05 haut.:0.60

9. DIMENSIONS, COEFFICIENTS D'ENCASTREMENT ET COEFFICIENTS DE FLAMBEMENT POUR CHAQUE NIVEAU.

P2	
Niveau	Dimensions (cm)
3	20x20



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P3, P4, P22, P25, P27, P29, P30, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P48	
Niveau	Dimensions (cm)
2	20x20

P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20						
Niveau	Dimensions (cm)	Coefficient d'encastrement		Coefficient de flambement		Coefficient de rigidité axiale
		Tête	Pied	X	Y	
1	30x30	0.30	1.00	0.70	0.70	2.00

P21						
Niveau	Dimensions (cm)	Coefficient d'encastrement		Coefficient de flambement		Coefficient de rigidité axiale
		Tête	Pied	X	Y	
2	20x20	0.30	1.00	0.70	0.70	2.00

P23, P31, P32, P33						
Niveau	Dimensions (cm)	Coefficient d'encastrement		Coefficient de flambement		Coefficient de rigidité axiale
		Tête	Pied	X	Y	
2	25x25	0.30	1.00	0.70	0.70	2.00

10. ENROBAGES

10.1. Poteaux

L'enrobage des poteaux est **3.0 cm**.

10.2. Poutres

Élément	Supérieure (cm)	Inférieure (cm)	Latéral (cm)
Poutres	3.0	3.0	3.0

10.3. Planchers

Planchers sur poutrelles en béton (Géométrie)

L'enrobage supérieur dans les planchers sur poutrelles en béton est de **3.0 cm**

Dalles pleines (Géométries, Mécaniques)

Les enrobages dans les dalles pleines sont:



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Enrobage géométrique (cm)		Enrobage mécanique (cm)	
Supérieure	Inférieure	Supérieure	Inférieure
2.5	2.5	3.0	3.0

11. RÉCAPITULATIF DES PLANCHERS

Types de planchers considérés

Nom	Description
16+5	PLANCHER SUR POUTRELLES EN BÉTON Épaisseur d'entrevous: 16 cm Épaisseur dalle de compression: 5 cm Entraxe: 61 cm Entrevous: En béton Largeur de la nervure: 8 cm Volume de béton: 0.078 m ³ /m ² Poids propre: 2.75 kN/m ² (Simple), 3.03 kN/m ² (Double) Incrément de la largeur de la nervure: 1 cm Vérification de flèche: Comme poutrelle précontrainte Rigidité fissurée: 50 % rigidité brute

12. INTERACTION TERRAIN-STRUCTURE (SEMELLES SUPERFICIELLES ET SUR PIEUX)

Références	Données de calcul
P5	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée
P6	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée
P7	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée
P8	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée
P9	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée
P10	Semelle rectangulaire excentrée Largeur semelle X: 120 cm Largeur semelle Y: 120 cm L'interaction n'est pas considérée



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Références	Données de calcul
P11	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P12	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P13	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P14	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P15	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P16	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P17	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P18	Semelle rectangulaire excentrée Largeur semelle X: 160 cm Largeur semelle Y: 160 cm L'interaction n'est pas considérée
P19	Semelle rectangulaire excentrée Largeur semelle X: 180 cm Largeur semelle Y: 180 cm L'interaction n'est pas considérée
P20	Semelle rectangulaire excentrée Largeur semelle X: 180 cm Largeur semelle Y: 180 cm L'interaction n'est pas considérée

13. RADIERS ET ÉLÉMENTS DE FONDATION

13.1. Semelles superficielles

-Contrainte admissible en situations durables (A1 - Ensemble B): 0.300 MPa

-Contrainte admissible en situations accidentelles (A1 - Ensemble B): 0.450 MPa

14. MATÉRIAUX UTILISÉS

14.1. Bétons

Élément	Béton	f_{ck}	γ_c	Granulat	E_c
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Récapitulatif des données de l'ouvrage

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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		(MPa)		Nature	Taille maximale (mm)	(MPa)
Tous	C25/30	25	1.50	Quartzite	15	30500

14.2. Aciers par élément et position

14.2.1. Aciers des barres

Élément	Acier	f_{yk} (MPa)	γ_s
Tous	S-500	500	1.00 a 1.15

14.2.2. Aciers profilés

Type d'acier pour profilés	Acier	Limite d'élasticité (MPa)	Module d'élasticité longitudinale (GPa)
Acier formé à froid	S 235	235	210
Acier laminé	S235 (EN 1993-1-1)	235	210

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2.2.1. Éléments en béton armé	4



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1. DONNÉES GÉNÉRALES

- Norme: EN1992-1-2:2004 - Calcul des structures en béton - Partie 1-2: Règles générales - Calcul du comportement au feu, 5.7.

- Références:

- R. req.: résistance requise, temps durant lequel un élément doit maintenir sa capacité portante, exprimé en minutes.
- F. Part.: indique si le plancher possède une fonction de compartimentage.
- a_m : distance équivalente à l'axe des armatures (EN 1992-1-2:2004 - Formule 5.5).
- a_{min} : distance minimale équivalente à l'axe exigée par la norme pour chaque type d'élément structural.
- b: plus petite dimension de la section transversale.
- b_{min} : valeur minimale de la plus petite dimension exigée par la norme.

- Vérifications:

Généraux:

- Distance équivalente à l'axe: $a_m \geq a_{min}$ (l'épaisseur de revêtement nécessaire pour vérifier cette condition est indiquée lorsque cela se révèle nécessaire).
- Dimension minimale: $b \geq b_{min}$.

Particuliers:

- Les contrôles particuliers à certains éléments structuraux exigés par la norme ont été réalisés.

Données par niveau				
Niveau	R. req.	F. Part.	Revêtement des éléments en béton	
			Inférieur (planchers et poutres)	Poteaux et murs
Plancher 2	R 60	-	Sans revêtement ignifuge	Sans revêtement ignifuge
Plancher 1	R 60	-	Sans revêtement ignifuge	Sans revêtement ignifuge

2. VÉRIFICATIONS

2.1. Plancher 1

2.1.1. Éléments en béton armé

Plancher 1 - Poteaux		
R. req. ⁽¹⁾ : R 60 Rev. Inc. ⁽²⁾ : Sans revêtement		
Réf.	Section	État
P5	30x30	Conforme
P6	30x30	Conforme
P7	30x30	Conforme
P8	30x30	Conforme
P9	30x30	Conforme
P10	30x30	Conforme
P11	30x30	Conforme



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Plancher 1 - Poteaux		
R. req. ⁽¹⁾ : R 60 Rev. Inc. ⁽²⁾ : Sans revêtement		
Réf.	Section	État
P12	30x30	Conforme
P13	30x30	Conforme
P14	30x30	Conforme
P15	30x30	Conforme
P16	30x30	Conforme
P17	30x30	Conforme
P18	30x30	Conforme
P19	30x30	Conforme
P20	30x30	Conforme
Notes: ⁽¹⁾ Résistance requise (période de temps, exprimée en minutes, pendant laquelle un élément structural doit maintenir sa capacité portante). ⁽²⁾ Revêtement de protection		

Plancher 1 - Poutres - R 60						
Portique	Tronçon	Dimensions (mm)	b _{min} (mm)	a _m (mm)	a _{min} (mm)	État
1	P22-P13	M1: 300x600	120	49	12	Conforme
	P13-P14	M2: 300x600	120	49	12	Conforme
2	P14-P15	300x600	120	45	12	Conforme
	P15-P16	300x600	120	49	12	Conforme
	P16-P17	300x600	120	49	12	Conforme
	P17-P18	300x600	120	49	12	Conforme
	P18-P19	300x600	120	45	12	Conforme
	P19-P20	M15: 300x600	120	49	12	Conforme
	P20-P23	300x600	120	49	12	Conforme
3	P42-P43	M13: 300x600	120	45	12	Conforme
4	P3-P4	M4: 300x600	120	47	12	Conforme
5	P21-P3	300x600	120	47	12	Conforme
6	P14-P6	300x600	120	47	12	Conforme
	P6-P39	300x600	120	47	12	Conforme
7	P25-P15	300x600	120	47	12	Conforme
	P15-P7	300x600	120	47	12	Conforme
	P7-P38	300x600	120	47	12	Conforme
8	P16-P8	300x600	120	47	12	Conforme
	P8-P37	300x600	120	47	12	Conforme
9	P27-P17	300x600	120	47	12	Conforme
	P17-P9	300x600	120	47	12	Conforme
	P9-P36	300x600	120	47	12	Conforme
10	P18-P10	300x600	120	47	12	Conforme
	P10-P35	300x600	120	47	12	Conforme
11	P29-P19	300x600	120	49	12	Conforme
	P19-P11	300x600	120	49	12	Conforme
	P11-P34	M16: 300x600	120	49	12	Conforme
12	P41-P44	M14: 300x600	120	47	25	Conforme



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Plancher 1 - Poutres - R 60						
Portique	Tronçon	Dimensions (mm)	b _{min} (mm)	a _m (mm)	a _{min} (mm)	État
13	P30-P20	300x600	120	49	12	Conforme
	P20-B0	300x600	120	49	12	Conforme
	B0-P12	300x600	120	51	12	Conforme
	P12-P48	300x600	120	51	12	Conforme

Plancher 1 - Dalles pleines - R 60				
Plancher	Épaisseur (mm)	a _m (mm)	a _{min} (mm)	État
L1, L2, L3, ... ⁽¹⁾	200	30	15	Conforme
L9 et L16	200	30	10	Conforme
L10, L11, L12, ... ⁽²⁾	200	30	20	Conforme
Notes: ⁽¹⁾ Planchers L1, L2, L3, L4, L5, L6, L7 et L8 ⁽²⁾ Planchers L10, L11, L12, L13, L14 et L15				

2.2. Plancher 2

2.2.1. Éléments en béton armé

Plancher 2 - Poteaux		
R. req. ⁽¹⁾ : R 60		
Rev. Inc. ⁽²⁾ : Sans revêtement		
Réf.	Section	État
P21	20x20	Conforme
P23	25x25	Conforme
P31	25x25	Conforme
P32	25x25	Conforme
P33	25x25	Conforme
Notes: ⁽¹⁾ Résistance requise (période de temps, exprimée en minutes, pendant laquelle un élément structural doit maintenir sa capacité portante). ⁽²⁾ Revêtement de protection		

Plancher 2 - Poutres - R 60								
Portique	Tronçon	Dimensions (mm)	b _{min} (mm)	a _m (mm)	a _{min} (mm)	Coin		État
						a _m (mm)	a _{min} (mm)	
1	P21-P2	200x520	N.V.	46	20	--	--	Conforme
2	B0-B1	M1	N.V.	46	20	--	--	Conforme
	B1-B2	M2	N.V.	48	20	--	--	Conforme
	B2-P31	200x500	120	49	12	49	22	Conforme
	P31-P32	200x500	120	48	12	48	22	Conforme
	P32-P33	200x500	120	47	12	48	22	Conforme
	P33-B3	200x500	120	47	12	48	22	Conforme
	B3-B4	M15	N.V.	44	20	--	--	Conforme
	B4-P23	200x500	120	46	30	46	40	Conforme



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Plancher 2 - Poutres - R 60								
Portique	Tronçon	Dimensions (mm)	b _{min} (mm)	a _m (mm)	a _{min} (mm)	Coin		État
						a _m (mm)	a _{min} (mm)	
3	B5-B6	M13	N.V.	44	20	--	--	Conforme
4	B7-B8	M4	N.V.	44	20	--	--	Conforme
	B8-B9	M5	N.V.	44	20	--	--	Conforme
	B9-B10	M6	N.V.	44	20	--	--	Conforme
	B10-B11	M7	N.V.	44	20	--	--	Conforme
	B11-B12	M8	N.V.	44	20	--	--	Conforme
	B12-B13	M9	N.V.	44	20	--	--	Conforme
	B13-B14	M10	N.V.	44	20	--	--	Conforme
	B14-B15	M11	N.V.	44	20	--	--	Conforme
	B15-B16	M12	N.V.	44	20	--	--	Conforme
5	P21-B0	200x520	N.V.	44	20	--	--	Conforme
	B0-B7	M3	N.V.	44	20	--	--	Conforme
6	<-B18	M17	N.V.	48	20	--	--	Conforme
	B18-B13	M16	N.V.	46	20	--	--	Conforme
7	B4-B5	M14	N.V.	44	20	--	--	Conforme
8	P2-P23	200x520	N.V.	46	20	--	--	Conforme
	P23-B6	200x610	N.V.	46	20	--	--	Conforme
	B6-B16	200x610	N.V.	46	20	--	--	Conforme

Notes:
N.V.: Sans objet.

Plancher 2 - Dalles pleines - R 60				
Plancher	Épaisseur (mm)	a _m (mm)	a _{min} (mm)	État
L1	180	30	20	Conforme

Plancher 2 - Plancher sur poutrelles - R 60				
Plancher	Plancher	a _m (mm)	a _{min} (mm)	État
U1 et U2	16+5	35	20	Conforme



Liste des combinaisons

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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■ Noms des hypothèses

PP	Poids propre
G	Charges permanentes
Qa	Charge d'exploitation
V(+X exc.+)	Vent +X exc.+
V(+X exc.-)	Vent +X exc.-
V(-X exc.+)	Vent -X exc.+
V(-X exc.-)	Vent -X exc.-
V(+Y exc.+)	Vent +Y exc.+
V(+Y exc.-)	Vent +Y exc.-
V(-Y exc.+)	Vent -Y exc.+
V(-Y exc.-)	Vent -Y exc.-
SX	Séisme X
SY	Séisme Y

■ Catégorie d'utilisation

B. Bureaux

■ E.L.U. de rupture. Béton

EC

Neige: Altitude inférieure ou égale à 1000 m

■ E.L.U. de rupture. Béton en fondations

EC

Neige: Altitude inférieure ou égale à 1000 m

■ E.L.U. de rupture. Poteaux mixtes acier-béton

EC

Neige: Altitude inférieure ou égale à 1000 m

■ E.L.U. de rupture. Aluminium

EC

Neige: Altitude inférieure ou égale à 1000 m

■ Contraintes sur le terrain (A1 - Ensemble B)

EC

Neige: Altitude inférieure ou égale à 1000 m

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.350	1.350											
3	1.000	1.000	1.500										
4	1.350	1.350	1.500										
5	1.000	1.000		1.500									
6	1.350	1.350		1.500									
7	1.000	1.000	1.050	1.500									
8	1.350	1.350	1.050	1.500									
9	1.000	1.000	1.500	0.900									
10	1.350	1.350	1.500	0.900									
11	1.000	1.000			1.500								
12	1.350	1.350			1.500								
13	1.000	1.000	1.050		1.500								
14	1.350	1.350	1.050		1.500								
15	1.000	1.000	1.500		0.900								
16	1.350	1.350	1.500		0.900								
17	1.000	1.000				1.500							
18	1.350	1.350				1.500							
19	1.000	1.000	1.050			1.500							
20	1.350	1.350	1.050			1.500							
21	1.000	1.000	1.500			0.900							
22	1.350	1.350	1.500			0.900							



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- **E.L.U. de rupture. Acier préformé**
EC
Neige: Altitude inférieure ou égale à 1000 m
- **E.L.U. de rupture. Acier laminé**
EC
Neige: Altitude inférieure ou égale à 1000 m

[illegible]



Date: 25/08/25

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
6	1.350	1.350		1.500									
7	1.000	1.000	1.050	1.500									
8	1.350	1.350	1.050	1.500									
9	1.000	1.000	1.500	0.900									
10	1.350	1.350	1.500	0.900									
11	1.000	1.000			1.500								
12	1.350	1.350			1.500								
13	1.000	1.000	1.050		1.500								
14	1.350	1.350	1.050		1.500								
15	1.000	1.000	1.500		0.900								
16	1.350	1.350	1.500		0.900								
17	1.000	1.000				1.500							
18	1.350	1.350				1.500							
19	1.000	1.000	1.050			1.500							
20	1.350	1.350	1.050			1.500							
21	1.000	1.000	1.500			0.900							
22	1.350	1.350	1.500			0.900							
23	1.000	1.000					1.500						
24	1.350	1.350					1.500						
25	1.000	1.000	1.050				1.500						
26	1.350	1.350	1.050				1.500						
27	1.000	1.000	1.500				0.900						
28	1.350	1.350	1.500				0.900						
29	1.000	1.000						1.500					
30	1.350	1.350						1.500					
31	1.000	1.000	1.050					1.500					
32	1.350	1.350	1.050					1.500					
33	1.000	1.000	1.500					0.900					
34	1.350	1.350	1.500					0.900					
35	1.000	1.000							1.500				
36	1.350	1.350							1.500				
37	1.000	1.000	1.050						1.500				
38	1.350	1.350	1.050						1.500				
39	1.000	1.000	1.500						0.900				
40	1.350	1.350	1.500						0.900				
41	1.000	1.000								1.500			
42	1.350	1.350								1.500			
43	1.000	1.000	1.050							1.500			
44	1.350	1.350	1.050							1.500			
45	1.000	1.000	1.500							0.900			
46	1.350	1.350	1.500							0.900			
47	1.000	1.000									1.500		
48	1.350	1.350									1.500		
49	1.000	1.000	1.050								1.500		
50	1.350	1.350	1.050								1.500		
51	1.000	1.000	1.500								0.900		
52	1.350	1.350	1.500								0.900		
53	1.000	1.000										-0.300	-1.000
54	1.000	1.000	0.300									-0.300	-1.000
55	1.000	1.000										0.300	-1.000
56	1.000	1.000	0.300									0.300	-1.000
57	1.000	1.000										-1.000	-0.300
58	1.000	1.000	0.300									-1.000	-0.300
59	1.000	1.000										-1.000	0.300
60	1.000	1.000	0.300									-1.000	0.300
61	1.000	1.000										0.300	1.000
62	1.000	1.000	0.300									0.300	1.000
63	1.000	1.000										-0.300	1.000
64	1.000	1.000	0.300									-0.300	1.000
65	1.000	1.000										1.000	0.300
66	1.000	1.000	0.300									1.000	0.300
67	1.000	1.000										1.000	-0.300



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Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
68	1.000	1.000	0.300									1.000	-0.300

2. Coefficients pour situations accidentelles d'incendie

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.000	1.000	0.500										
3	1.000	1.000		0.200									
4	1.000	1.000	0.300	0.200									
5	1.000	1.000			0.200								
6	1.000	1.000	0.300		0.200								
7	1.000	1.000				0.200							
8	1.000	1.000	0.300			0.200							
9	1.000	1.000					0.200						
10	1.000	1.000	0.300				0.200						
11	1.000	1.000						0.200					
12	1.000	1.000	0.300					0.200					
13	1.000	1.000							0.200				
14	1.000	1.000	0.300						0.200				
15	1.000	1.000								0.200			
16	1.000	1.000	0.300							0.200			
17	1.000	1.000									0.200		
18	1.000	1.000	0.300								0.200		

■ E.L.U. de rupture. Bois

EC

Neige: Altitude inférieure ou égale à 1000 m

1. Coefficients pour situations durables ou transitoires et sismiques

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.350	1.350											
3	1.000	1.000	1.500										
4	1.350	1.350	1.500										
5	1.000	1.000		1.500									
6	1.350	1.350		1.500									
7	1.000	1.000	1.050	1.500									
8	1.350	1.350	1.050	1.500									
9	1.000	1.000	1.500	0.900									
10	1.350	1.350	1.500	0.900									
11	1.000	1.000			1.500								
12	1.350	1.350			1.500								
13	1.000	1.000	1.050		1.500								
14	1.350	1.350	1.050		1.500								
15	1.000	1.000	1.500		0.900								
16	1.350	1.350	1.500		0.900								
17	1.000	1.000				1.500							
18	1.350	1.350				1.500							
19	1.000	1.000	1.050			1.500							
20	1.350	1.350	1.050			1.500							
21	1.000	1.000	1.500			0.900							
22	1.350	1.350	1.500			0.900							
23	1.000	1.000					1.500						
24	1.350	1.350					1.500						
25	1.000	1.000	1.050				1.500						
26	1.350	1.350	1.050				1.500						
27	1.000	1.000	1.500				0.900						
28	1.350	1.350	1.500				0.900						
29	1.000	1.000						1.500					
30	1.350	1.350						1.500					
31	1.000	1.000	1.050					1.500					
32	1.350	1.350	1.050					1.500					



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Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
33	1.000	1.000	1.500					0.900					
34	1.350	1.350	1.500					0.900					
35	1.000	1.000							1.500				
36	1.350	1.350							1.500				
37	1.000	1.000	1.050						1.500				
38	1.350	1.350	1.050						1.500				
39	1.000	1.000	1.500						0.900				
40	1.350	1.350	1.500						0.900				
41	1.000	1.000								1.500			
42	1.350	1.350								1.500			
43	1.000	1.000	1.050							1.500			
44	1.350	1.350	1.050							1.500			
45	1.000	1.000	1.500							0.900			
46	1.350	1.350	1.500							0.900			
47	1.000	1.000									1.500		
48	1.350	1.350									1.500		
49	1.000	1.000	1.050								1.500		
50	1.350	1.350	1.050								1.500		
51	1.000	1.000	1.500								0.900		
52	1.350	1.350	1.500								0.900		
53	1.000	1.000										-0.300	-1.000
54	1.000	1.000	0.300									-0.300	-1.000
55	1.000	1.000										0.300	-1.000
56	1.000	1.000	0.300									0.300	-1.000
57	1.000	1.000										-1.000	-0.300
58	1.000	1.000	0.300									-1.000	-0.300
59	1.000	1.000										-1.000	0.300
60	1.000	1.000	0.300									-1.000	0.300
61	1.000	1.000										0.300	1.000
62	1.000	1.000	0.300									0.300	1.000
63	1.000	1.000										-0.300	1.000
64	1.000	1.000	0.300									-0.300	1.000
65	1.000	1.000										1.000	0.300
66	1.000	1.000	0.300									1.000	0.300
67	1.000	1.000										1.000	-0.300
68	1.000	1.000	0.300									1.000	-0.300

2. Coefficients pour situations accidentelles d'incendie

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.000	1.000	0.300										

■ Déplacements

Actions caractéristiques

Comb.	PP	G	Qa	V(+X exc.+)	V(+X exc.-)	V(-X exc.+)	V(-X exc.-)	V(+Y exc.+)	V(+Y exc.-)	V(-Y exc.+)	V(-Y exc.-)	SX	SY
1	1.000	1.000											
2	1.000	1.000	1.000										
3	1.000	1.000		1.000									
4	1.000	1.000	1.000	1.000									
5	1.000	1.000			1.000								
6	1.000	1.000	1.000		1.000								
7	1.000	1.000				1.000							
8	1.000	1.000	1.000			1.000							
9	1.000	1.000					1.000						
10	1.000	1.000	1.000				1.000						
11	1.000	1.000						1.000					
12	1.000	1.000	1.000					1.000					
13	1.000	1.000							1.000				
14	1.000	1.000	1.000						1.000				
15	1.000	1.000								1.000			
16	1.000	1.000	1.000							1.000			

Liste des combinaisons

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1. CONSIDÉRATION DES EFFETS DE SECOND ORDRE	
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Considération des effets de second ordre

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CONSIDÉRATION DES EFFETS DE SECOND ORDRE

(2) Il n'est pas nécessaire de prendre en compte les effets du second ordre (effets $P-\Delta$) lorsque la condition suivante est satisfaite à tous les niveaux (NF EN 1998-1/NA, 4.4.2.2):

Où:

θ : Coefficient de sensibilité au déplacement relatif entre étages

P_{tot} : Charge gravitaire totale due à tous les étages situés au dessus de l'étage considéré, y compris celui-ci, dans la situation sismique de calcul

d_r : Valeur de calcul du dévers entre les niveaux, évaluée comme la différence entre le déplacement latéral moyen, d_s , de la partie supérieure et inférieure du niveau considéré

V_{tot} : Effort tranchant sismique total au niveau considéré

h : Hauteur d'étage

(3) Dans les cas où $\theta_{min} < \theta < \theta_{max}$, les effets du second ordre peuvent être pris en compte approximativement en majorant les effets de l'action sismique par un facteur égal à $1/(1-\theta)$.

(4) La valeur du coefficient θ ne doit pas dépasser θ_{max} .

$\theta_{min} (X) : 0.10$

$\theta_{min} (Y) : 0.10$

$\theta_{max} (X) : 0.30$

$\theta_{max} (Y) : 0.30$

Les résultats affichés sont affectés par les effets de second ordre définis par l'utilisateur lors du lancement du calcul.

Lorsque l'effet $P-\Delta$ a été inclus dans l'analyse, $\theta \leq \theta_{max}$ doit être satisfait. Toutefois, la valeur calculée de θ à partir des résultats d'une analyse incluant des effets de second ordre est divisée par $(1 + \theta)$ avant la vérification.

Séisme X1										
Niveau	P_i (kN)	h (m)	V_i		Δ		θ		$\theta^* = \theta/(1+\theta)$	
			$V_{i,x}$ (kN)	$V_{i,y}$ (kN)	Δ_x (cm)	Δ_y (cm)	θ_x	θ_y	θ^*_x	θ^*_y
Plancher 2	1452.66	3.45	68.63	46.76	0.04	0.08	--	--	--	--
Plancher 1	4354.89	3.84	171.18	111.33	0.99	0.65	0.066	0.067	0.062	0.062

Séisme Y1										
Niveau	P_i (kN)	h (m)	V_i		Δ		θ		$\theta^* = \theta/(1+\theta)$	
			$V_{i,x}$ (kN)	$V_{i,y}$ (kN)	Δ_x (cm)	Δ_y (cm)	θ_x	θ_y	θ^*_x	θ^*_y
Plancher 2	1452.66	3.45	44.82	58.44	0.03	0.12	--	0.009	--	0.009
Plancher 1	4354.89	3.84	111.35	140.98	0.65	0.82	0.066	0.066	0.062	0.062

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SÉISME

Norme utilisée: NF EN 1998-1/NA

NF EN 1998-1/NA (2007)

Eurocode 8 : Calcul des structures pour leur résistance aux séismes

Partie 1 : Règles générales, actions sismiques et règles pour les bâtiments

Annexe nationale à la NF EN 1998-1:2005

Méthode de calcul: Analyse modale spectrale (NF EN 1998-1/NA, 4.3.3.3)

1.1. Données générales de séisme

Caractérisation de l'emplacement

Zone sismique (Décret n° 2010-1255): 2 (Faible)

Type de sol (NF EN 1998-1/NA, 3.1.2): A

Système structural

Géométrie en hauteur (NF EN 1998-1/NA, 4.2.3.3): Irrégulier

qx: Coefficient de comportement (X) (NF EN 1998-1/NA, 5.2.2.2 et 6.3.2)

qx : 1.50

qy: Coefficient de comportement (Y) (NF EN 1998-1/NA, 5.2.2.2 et 6.3.2)

qy : 1.50

Importance de l'ouvrage (NF EN 1998-1/NA, 4.2.5 et Tableau 4.3): Catégorie IV

Paramètres de calcul

Nombre de modes de vibration qui interviennent dans l'analyse: Selon la norme

Degrés de liberté intervenant dans l'analyse: Les étages en infrastructure n'ont pas été pris en compte dans le modèle dynamique

Fraction de charge d'exploitation

: 0.50

Fraction de charge de neige

: 0.50

Effets de la composante sismique verticale

Ne sont pas considérés

L'analyse des effets du 2nd ordre est réalisée

Valeur multiplicatrice des déplacements 1.00

Critère de ferrailage à appliquer pour la ductilité: Ductilité moyenne

Facteurs réducteurs de l'inertie (NF EN 1998-1/NA, 4.3.1)

Poutres primaires contre l'action sismique: 0.5

Planchers primaires face à l'action sismique: 0.5

Poteaux primaires face à l'action sismique: 0.5

Noyaux: 0.5

Murs: 0.5

Murs en maçonnerie: 0.5



Justification de l'action sismique

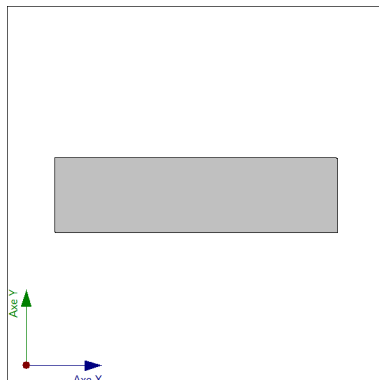
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Directions d'analyse

Action sismique selon X

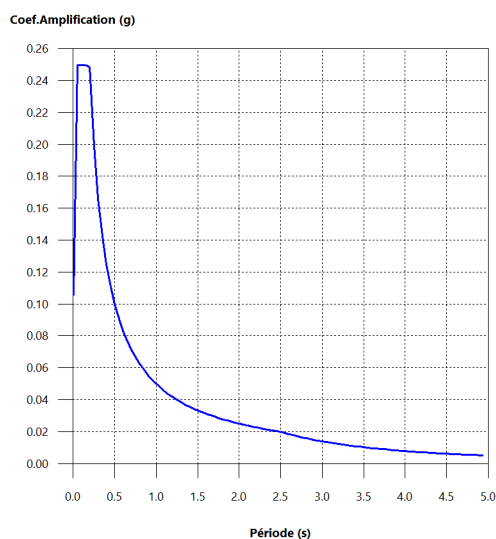
Action sismique selon Y



Projection en plan de l'ouvrage

1.2. Spectre de calcul

1.2.1. Spectre élastique d'accélérations



Coef.Amplification:

La valeur maximale des ordonnées spectrales est 0.250 g.

NF EN 1998-1/NA (3.2.2.2)

Paramètres nécessaires pour la définition du spectre

a_{gR}: Pic d'accélération (fraction de 'g') (Arrêté 22-10-2010, Article 4.a)
Zone sismique (Décret n° 2010-1255): 2 (Faible)

a_{gR} : 0.07 g

γ_I: Facteur d'importance (Arrêté 22-10-2010, Article 2)
Importance de l'ouvrage (NF EN 1998-1/NA, 4.2.5 et Tableau 4.3): Catégorie IV

γ_I : 1.40

S: Facteur de sol (Arrêté 22-10-2010, Article 4.d)

S : 1.00

T_B: Limite inférieure des périodes correspondant au palier d'accélération spectrale constante (Arrêté 22-10-2010, Article 4.e)

T_B : 0.03 s

T_C: Limite supérieure des périodes correspondant au palier d'accélération spectrale constante (Arrêté 22-10-2010, Article 4.e)

T_C : 0.20 s



Justification de l'action sismique

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T_D: Valeur définissant le début de la branche à déplacement spectral constant (Arrêté 22-10-2010, Article 4.e)

Zone sismique (Décret n° 2010-1255): 2 (Faible)

Type de sol (NF EN 1998-1/NA, 3.1.2): A

T_D : 2.50 s

1.2.2. Spectre de conception des accélérations

Le spectre de conception sismique s'obtient en réduisant le spectre élastique par le facteur de comportement (q), correspondant à chaque direction d'analyse, selon les expressions suivantes:

Facteur réducteur de comportement

q_x: Facteur de comportement (X) (NF EN 1998-1/NA, 5.2.2.2)

q_x : 1.50

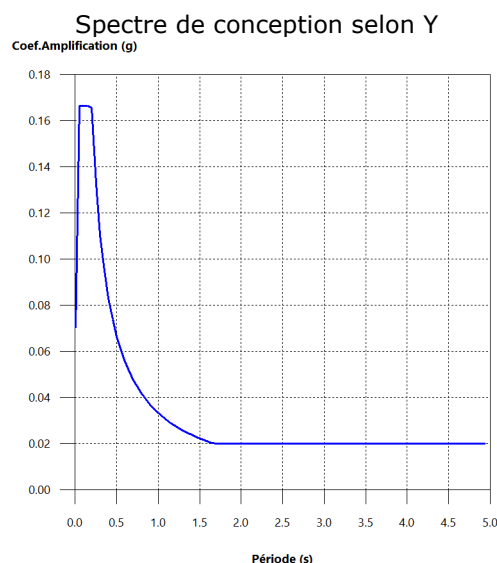
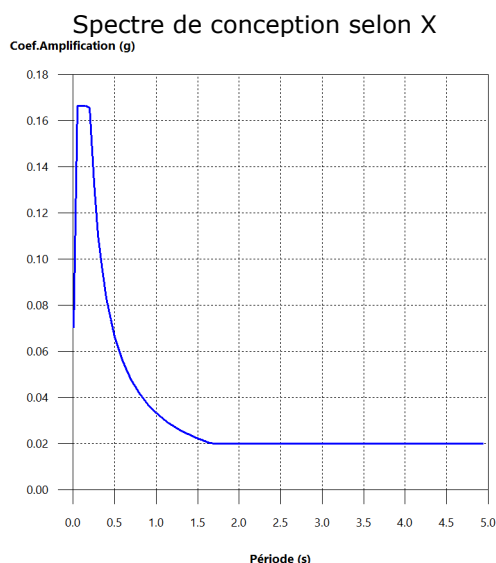
q_y: Facteur de comportement (Y) (NF EN 1998-1/NA, 5.2.2.2)

q_y : 1.50

Géométrie en hauteur (NF EN 1998-1/NA, 4.2.3.3): Irrégulier

La structure est définie comme irrégulière en hauteur, le facteur de comportement considéré dans chaque direction d'analyse est donc réduit en le multipliant par 0,8 (NF EN 1998-1/NA, 4.2.3.1 (7))

NF EN 1998-1/NA (3.2.2.5)



1.3. Coefficients de participation

Mode	T	L _x	L _y	L _{gz}	M _x	M _y	Hypothèse X(1)	Hypothèse Y(1)
------	---	----------------	----------------	-----------------	----------------	----------------	----------------	----------------



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Mode	T	L _x	L _y	L _{gz}	M _x	M _y	Hypothèse X(1)	Hypothèse Y(1)
Mode 1	0.922	0.0417	0.1226	0.9916	5.49 %	47.37 %	R = 1.5 A = 0.355 m/s ² D = 7.6348 mm	R = 1.5 A = 0.355 m/s ² D = 7.6348 mm
Mode 2	0.838	0.6677	0.2921	0.6847	83.16 %	15.91 %	R = 1.5 A = 0.39 m/s ² D = 6.93987 mm	R = 1.5 A = 0.39 m/s ² D = 6.93987 mm
Mode 3	0.784	0.0544	0.0976	0.9937	11.29 %	36.29 %	R = 1.5 A = 0.417 m/s ² D = 6.49052 mm	R = 1.5 A = 0.417 m/s ² D = 6.49052 mm
Total					99.94 %	99.57 %		

T: Période de vibration en secondes.

L_x, L_y: Coefficients de participation normalisés dans chaque direction de l'analyse.

L_{gz}: Coefficient de participation normalisé correspondant au degré de liberté rotationnelle.

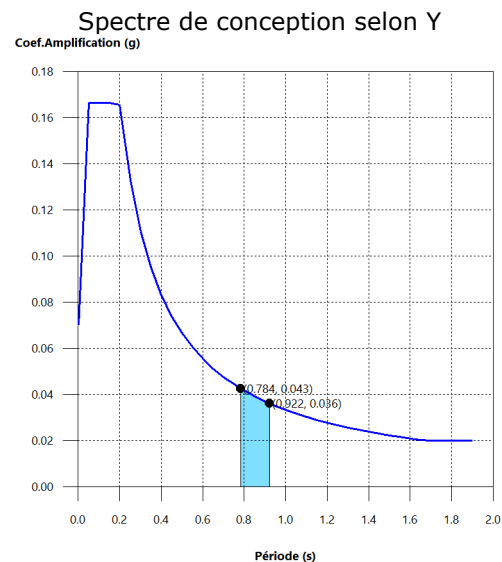
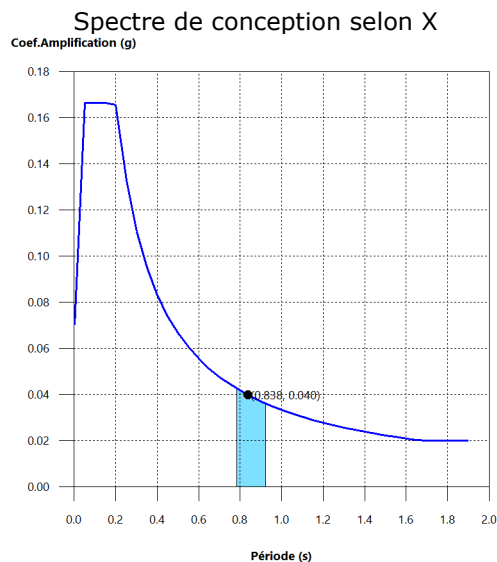
M_x, M_y: Pourcentage de masse déplacée pour chaque mode dans chaque direction de l'analyse.

R: Relation entre l'accélération de calcul en utilisant la ductilité attribuée à la structure et l'accélération de calcul obtenue sans ductilité.

A: Accélération de calcul, en incluant la ductilité.

D: Coefficient du mode. Équivaut au déplacement maximum du degré de liberté dynamique.

Représentation des périodes modales



Est représenté l'intervalle de périodes compris dans les modes étudiés, avec indication des modes dans lesquels plus de 30% de la masse est déplacée:

Hypothèse Séisme X1		
Hypothèse modale	T (s)	A (g)
Mode 2	0.838	0.040

Hypothèse Séisme Y1		
Hypothèse modale	T (s)	A (g)
Mode 1	0.922	0.036
Mode 3	0.784	0.043



Justification de l'action sismique

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1.4. Centre de masses, centre de rigidité et excentricités de chaque niveau

Niveau	c.d.m. (m)	c.d.r. (m)	e_x (m)	e_y (m)
Plancher 2	(13.35, 3.49)	(10.59, 4.53)	2.76	-1.04
Plancher 1	(13.36, 3.70)	(11.24, 4.42)	2.12	-0.72

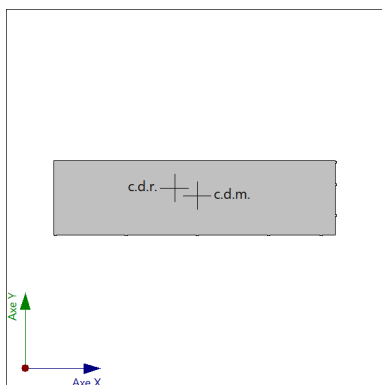
c.d.m.: Coordonnées du centre de masses du niveau (X,Y)

c.d.r.: Coordonnées du centre de rigidité du niveau (X,Y)

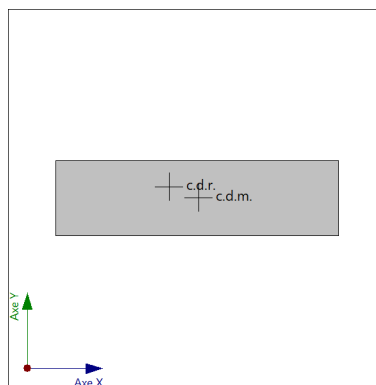
e_x : Excentricité du centre de masses par rapport au centre de rigidité (X)

e_y : Excentricité du centre de masses par rapport au centre de rigidité (Y)

Représentation graphique du centre de masses et du centre de rigidité par niveau



Plancher 1



Plancher 2

1.5. Effort tranchant sismique combiné par étage

La valeur maximale de l'effort tranchant par étage pour une hypothèse sismique donnée est obtenue en utilisant la Combinaison Quadratique Complexe (CQC) des efforts tranchants modaux correspondants.

Si l'ouvrage possède des poutres avec liaison extérieure ou des structures 3D intégrées, les efforts de ces éléments n'apparaissent pas dans la liste suivante.

1.5.1. Effort tranchant sismique combiné et force sismique équivalente par étage

Les valeurs affichées dans les tableaux suivants ne sont pas ajustées avec le facteur de modification calculé au paragraphe 'Correction du cisaillement à la base'.

Hypothèse sismique: Séisme X1

Niveau	Q_x (kN)	$F_{eq,x}$ (kN)	Q_y (kN)	$F_{eq,y}$ (kN)
Plancher 2	66.505	66.505	45.556	45.556
Plancher 1	165.875	99.370	108.489	62.936

Hypothèse sismique: Séisme Y1

Niveau	Q_x (kN)	$F_{eq,x}$ (kN)	Q_y (kN)	$F_{eq,y}$ (kN)
--------	---------------	--------------------	---------------	--------------------



Justification de l'action sismique

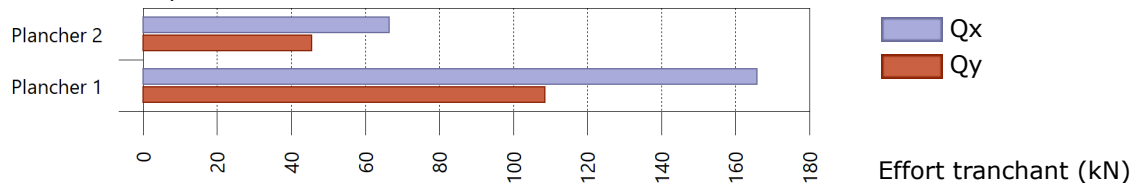
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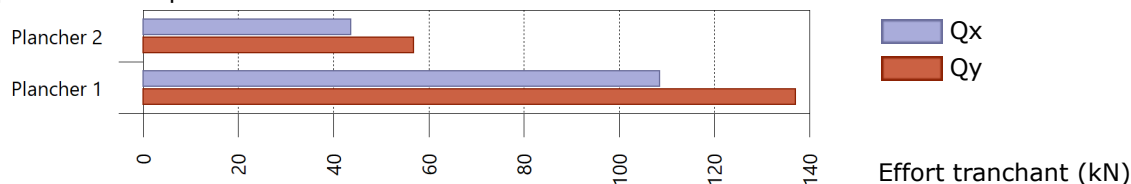
Niveau	Q_x (kN)	$F_{eq,x}$ (kN)	Q_y (kN)	$F_{eq,y}$ (kN)
Plancher 2	43.663	43.663	56.781	56.781
Plancher 1	108.510	64.851	137.016	80.236

Efforts tranchants sismiques maximaux par étage

Hypothèse sismique: Séisme X1

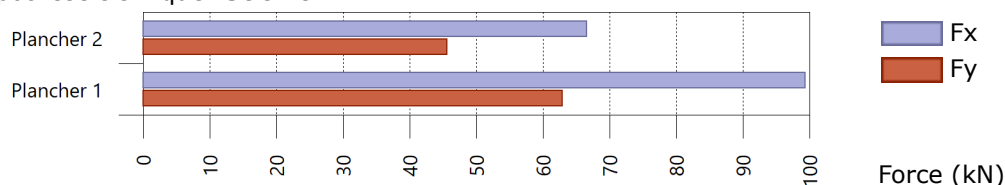


Hypothèse sismique: Séisme Y1

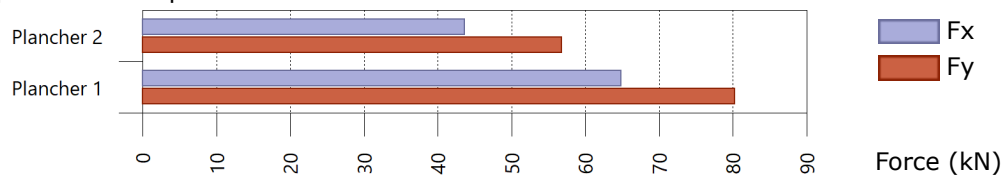


Forces sismiques équivalentes par étage

Hypothèse sismique: Séisme X1



Hypothèse sismique: Séisme Y1



1.5.2. Pourcentage d'effort tranchant sismique résisté par type de support et par étage

Le pourcentage d'effort tranchant sismique de la colonne 'Murs' comprend l'effort tranchant repris par les murs, les noyaux et les éléments de contreventement.

Hypothèse sismique: Séisme X1

Niveau	%Q _x		%Q _y	
	Poteaux	Murs	Poteaux	Murs
Plancher 2	1.65	98.35	2.86	97.14
Plancher 1	100.00	0.00	100.00	0.00

Hypothèse sismique: Séisme Y1

Niveau	%Q _x	%Q _y
--------	-----------------	-----------------



Justification de l'action sismique

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	Poteaux	Murs	Poteaux	Murs
Plancher 2	1.65	98.35	3.26	96.74
Plancher 1	100.00	0.00	100.00	0.00

1.5.3. Pourcentage d'effort tranchant sismique résisté par type de support en amorces

Le pourcentage d'effort tranchant sismique de la colonne 'Murs' comprend l'effort tranchant repris par les murs, les noyaux et les éléments de contreventement.

Hypothèse sismique	%Q _x		%Q _y	
	Poteaux	Murs	Poteaux	Murs
Séisme X1	100.00	0.00	100.00	0.00
Séisme Y1	100.00	0.00	100.00	0.00

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Dévers entre niveaux dus à l'action sismique

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1. DÉFINITIONS

h: Hauteur du niveau par rapport à celui immédiatement inférieur

Dévers:

Absolu: Différence entre les déplacements d'un niveau et ceux du niveau immédiatement inférieur

Relatif: Rapport entre le dévers absolu et la hauteur

Note:

Les différentes normes limitent généralement la valeur du dévers relatif entre les niveaux et du dévers total du bâtiment.

La valeur absolue est utilisée pour définir les ensembles sismiques. La valeur relative est habituellement limitée en fonction de la hauteur du niveau 'h'. La valeur 'Total' est vérifiée en prenant dans ce cas comme valeur de 'h' la hauteur totale.

Les dévers sont majorés par le facteur de déplacements obtenu à partir des données du système structural définies pour l'action sismique.

L'amplification due aux effets de second ordre a été prise en compte dans le calcul des dévers.

2. DÉVERS DE POTEaux, NOYAUX ET MURS

Limitation des dévers entre niveaux dus à l'action sismique

Dévers de l'élément: Non vérifié

Dévers total: Non vérifié

Séisme X									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
P5	Plancher 1	3.3400	3.7400	0.99	0.0026h	---	1.03	0.0028h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.7400	0.99	0.0026h	---	1.03	0.0028h	---
P6	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.89	0.0025h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.89	0.0025h	---
P7	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.77	0.0022h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.77	0.0022h	---
P8	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.69	0.0019h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.69	0.0019h	---
P9	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.63	0.0018h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.63	0.0018h	---
P10	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.58	0.0016h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.58	0.0016h	---
P11	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.55	0.0016h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.55	0.0016h	---
P12	Plancher 1	3.1400	3.5400	0.99	0.0028h	---	0.69	0.0019h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.99	0.0028h	---	0.69	0.0019h	---
P13	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	1.03	0.0029h	---



Dévers entre niveaux dus à l'action sismique

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Séisme X									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	1.03	0.0029h	---
P14	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.89	0.0025h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.89	0.0025h	---
P15	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.77	0.0022h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.77	0.0022h	---
P16	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.69	0.0019h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.69	0.0019h	---
P17	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.63	0.0018h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.63	0.0018h	---
P18	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.58	0.0016h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.58	0.0016h	---
P19	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.55	0.0016h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.55	0.0016h	---
P20	Plancher 1	3.1400	3.5400	1.00	0.0028h	---	0.69	0.0019h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	1.00	0.0028h	---	0.69	0.0019h	---
P21	Plancher 2	6.9700	3.5300	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.5300	0.04	0.0001h	---	0.07	0.0002h	---
P23	Plancher 2	6.8400	3.4000	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4000	0.04	0.0001h	---	0.10	0.0003h	---
P31	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.08	0.0002h	---
P32	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.08	0.0002h	---
P33	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.09	0.0003h	---
M3	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.07	0.0002h	---
M4	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.07	0.0002h	---
M5	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.08	0.0002h	---



Dévers entre niveaux dus à l'action sismique

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Séisme X									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.08	0.0002h	---
M6	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.08	0.0002h	---
M7	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.08	0.0002h	---
M8	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0002h	---
M9	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0003h	---
M10	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0003h	---
M11	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.10	0.0003h	---
M12	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.10	0.0003h	---
M13	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.10	0.0003h	---
M14	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.10	0.0003h	---
M15	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0003h	---
M16	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0003h	---
M17	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.09	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.09	0.0003h	---
M1	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.07	0.0002h	---
M2	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.07	0.0002h	---



Dévers entre niveaux dus à l'action sismique

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Séisme Y									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
P5	Plancher 1	3.3400	3.7400	0.66	0.0018h	---	1.30	0.0035h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.7400	0.66	0.0018h	---	1.30	0.0035h	---
P6	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	1.05	0.0030h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	1.05	0.0030h	---
P7	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	0.86	0.0024h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	0.86	0.0024h	---
P8	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	0.81	0.0023h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	0.81	0.0023h	---
P9	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	0.83	0.0023h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	0.83	0.0023h	---
P10	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	0.92	0.0026h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	0.92	0.0026h	---
P11	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	1.05	0.0030h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	1.05	0.0030h	---
P12	Plancher 1	3.1400	3.5400	0.66	0.0019h	---	1.45	0.0041h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.66	0.0019h	---	1.45	0.0041h	---
P13	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	1.30	0.0037h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	1.30	0.0037h	---
P14	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	1.05	0.0030h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	1.05	0.0030h	---
P15	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	0.86	0.0024h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	0.86	0.0024h	---
P16	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	0.81	0.0023h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	0.81	0.0023h	---
P17	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	0.83	0.0023h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	0.83	0.0023h	---
P18	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	0.92	0.0026h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	0.92	0.0026h	---
P19	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	1.05	0.0030h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	1.05	0.0030h	---



Dévers entre niveaux dus à l'action sismique

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Séisme Y									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
	Total		3.5400	0.68	0.0019h	---	1.05	0.0030h	---
P20	Plancher 1	3.1400	3.5400	0.68	0.0019h	---	1.45	0.0041h	---
	Fondation	-0.4000	0.0000	0.00	---	---	0.00	---	---
	Total		3.5400	0.68	0.0019h	---	1.45	0.0041h	---
P21	Plancher 2	6.9700	3.5300	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.5300	0.04	0.0001h	---	0.07	0.0002h	---
P23	Plancher 2	6.8400	3.4000	0.04	0.0001h	---	0.18	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4000	0.04	0.0001h	---	0.18	0.0005h	---
P31	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.10	0.0003h	---
P32	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.11	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.11	0.0003h	---
P33	Plancher 2	6.6400	3.2000	0.04	0.0001h	---	0.12	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.2000	0.04	0.0001h	---	0.12	0.0004h	---
M3	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.07	0.0002h	---
M4	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.08	0.0002h	---
M5	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.09	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.09	0.0002h	---
M6	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.10	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.10	0.0003h	---
M7	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.11	0.0003h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.11	0.0003h	---
M8	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.12	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.12	0.0004h	---
M9	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.14	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.14	0.0004h	---
M10	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.16	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.16	0.0004h	---
M11	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.17	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---



Dévers entre niveaux dus à l'action sismique

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Séisme Y									
Poteau	Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
				Absolu (cm)	Relatif		Absolu (cm)	Relatif	
	Total		3.4500	0.03	0.0001h	---	0.17	0.0005h	---
M12	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.17	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.17	0.0005h	---
M13	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.17	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.17	0.0005h	---
M14	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.16	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.16	0.0005h	---
M15	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.16	0.0005h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.16	0.0005h	---
M16	Plancher 2	6.8900	3.4500	0.03	0.0001h	---	0.15	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.03	0.0001h	---	0.15	0.0004h	---
M17	Plancher 2	6.8900	3.4500	0.02	0.0001h	---	0.15	0.0004h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.02	0.0001h	---	0.15	0.0004h	---
M1	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.07	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.07	0.0002h	---
M2	Plancher 2	6.8900	3.4500	0.04	0.0001h	---	0.08	0.0002h	---
	Plancher 1	3.4400	0.0000	0.00	---	---	0.00	---	---
	Total		3.4500	0.04	0.0001h	---	0.08	0.0002h	---

3. DÉVERS ENTRE NIVEAUX

Limitation des dévers entre niveaux dus à l'action sismique

Dévers entre niveaux

Relatif: 0.0125h

Séisme X							
Niveau	Cote (m)	h (m)	Dévers X			Dévers Y	
			Absolu (cm)	Relatif		Absolu (cm)	Relatif
Plancher 2	6.890	3.450	0.04	0.0001h	✓	0.08	0.0002h
Plancher 1	3.440	3.840	0.99	0.0026h	✓	0.65	0.0017h

Séisme Y							
Niveau	Cote (m)	h (m)	Dévers X			Dévers Y	
			Absolu (cm)	Relatif		Absolu (cm)	Relatif



Dévers entre niveaux dus à l'action sismique

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Séisme Y								
Niveau	Cote (m)	h (m)	Dévers X			Dévers Y		
			Absolu (cm)	Relatif		Absolu (cm)	Relatif	
Plancher 2	6.890	3.450	0.03	0.0001h	✓	0.12	0.0003h	✓
Plancher 1	3.440	3.840	0.65	0.0017h	✓	0.82	0.0021h	✓



Distorsions des poteaux, des noyaux et des murs

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

■ h: Hauteur du niveau par rapport à celui immédiatement inférieur

■ Distorsion:

Absolue: Différence entre les déplacements d'un niveau et ceux du niveau immédiatement inférieur

Relative: Rapport entre la hauteur et la distorsion absolue

■ Origine:

G: Seulement gravitationnelles

GV: Gravitationnelles + vent

■ Note:

Les différentes normes ont pour habitude de limiter la valeur de la distorsion relative entre les niveaux et la valeur de la distorsion totale (dévers) du bâtiment.

La valeur absolue est utilisée pour définir les ensembles sismiques. La valeur relative est habituellement limitée en fonction de la hauteur du niveau 'h'. La valeur 'Total' est vérifiée en prenant dans ce cas comme valeur de 'h' la hauteur totale.

Situations durables ou transitoires									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
P5	Plancher 1	3.34	3.74	0.0003	----	GV	0.0005	h / 7480	GV
	Fondation	-0.40							
	Total		3.74	0.0003	----	GV	0.0005	h / 7480	GV
P6	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P7	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P8	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P9	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P10	Plancher 1	3.14	3.54	0.0003	----	GV	0.0005	h / 7080	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0005	h / 7080	GV
P11	Plancher 1	3.14	3.54	0.0003	----	GV	0.0006	h / 5900	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0006	h / 5900	GV
P12	Plancher 1	3.14	3.54	0.0003	----	GV	0.0006	h / 5900	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0006	h / 5900	GV
P13	Plancher 1	3.14	3.54	0.0003	----	GV	0.0005	h / 7080	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0005	h / 7080	GV
P14	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P15	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV



Distorsions des poteaux, des noyaux et des murs

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Situations durables ou transitoires									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P16	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P17	Plancher 1	3.14	3.54	0.0003	----	GV	0.0004	h / 8850	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0004	h / 8850	GV
P18	Plancher 1	3.14	3.54	0.0003	----	GV	0.0005	h / 7080	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0005	h / 7080	GV
P19	Plancher 1	3.14	3.54	0.0003	----	GV	0.0006	h / 5900	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0006	h / 5900	GV
P20	Plancher 1	3.14	3.54	0.0003	----	GV	0.0006	h / 5900	GV
	Fondation	-0.40							
	Total		3.54	0.0003	----	GV	0.0006	h / 5900	GV
P21	Plancher 2	6.97	3.53	0.0000	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.53	0.0000	----	GV	0.0002	----	GV
P23	Plancher 2	6.84	3.40	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.40	0.0001	----	GV	0.0003	----	GV
P31	Plancher 2	6.64	3.20	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.20	0.0001	----	GV	0.0002	----	GV
P32	Plancher 2	6.64	3.20	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.20	0.0001	----	GV	0.0002	----	GV
P33	Plancher 2	6.64	3.20	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.20	0.0001	----	GV	0.0002	----	GV
M3	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M4	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M5	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M6	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M7	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M8	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV



Distorsions des poteaux, des noyaux et des murs

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Situations durables ou transitoires									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M9	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M10	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M11	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M12	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M13	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M14	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M15	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M16	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M17	Plancher 2	6.89	3.45	0.0001	----	GV	0.0003	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0003	----	GV
M1	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV
M2	Plancher 2	6.89	3.45	0.0001	----	GV	0.0002	----	GV
	Plancher 1	3.44							
	Total		3.45	0.0001	----	GV	0.0002	----	GV

Situations sismiques ⁽¹⁾									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
P5	Plancher 1	3.34	3.74	0.0100	h / 374	----	0.0131	h / 286	----
	Fondation	-0.40							
	Total		3.74	0.0100	h / 374	----	0.0131	h / 286	----
P6	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0106	h / 334	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0106	h / 334	----
P7	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0087	h / 407	----



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C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Situations sismiques ⁽¹⁾									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0087	h / 407	----
P8	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0082	h / 432	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0082	h / 432	----
P9	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0085	h / 417	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0085	h / 417	----
P10	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0093	h / 381	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0093	h / 381	----
P11	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0107	h / 331	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0107	h / 331	----
P12	Plancher 1	3.14	3.54	0.0100	h / 354	----	0.0148	h / 240	----
	Fondation	-0.40							
	Total		3.54	0.0100	h / 354	----	0.0148	h / 240	----
P13	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0131	h / 271	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0131	h / 271	----
P14	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0106	h / 334	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0106	h / 334	----
P15	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0087	h / 407	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0087	h / 407	----
P16	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0082	h / 432	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0082	h / 432	----
P17	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0085	h / 417	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0085	h / 417	----
P18	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0093	h / 381	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0093	h / 381	----
P19	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0107	h / 331	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0107	h / 331	----
P20	Plancher 1	3.14	3.54	0.0101	h / 351	----	0.0148	h / 240	----
	Fondation	-0.40							
	Total		3.54	0.0101	h / 351	----	0.0148	h / 240	----
P21	Plancher 2	6.97	3.53	0.0005	h / 7060	----	0.0009	h / 3923	----
	Plancher 1	3.44							
	Total		3.53	0.0005	h / 7060	----	0.0009	h / 3923	----
P23	Plancher 2	6.84	3.40	0.0005	h / 6800	----	0.0020	h / 1700	----
	Plancher 1	3.44							
	Total		3.40	0.0005	h / 6800	----	0.0020	h / 1700	----
P31	Plancher 2	6.64	3.20	0.0005	h / 6400	----	0.0011	h / 2910	----



Distorsions des poteaux, des noyaux et des murs

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Situations sismiques ⁽¹⁾									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
	Plancher 1	3.44							
	Total		3.20	0.0005	h / 6400	----	0.0011	h / 2910	----
P32	Plancher 2	6.64	3.20	0.0005	h / 6400	----	0.0013	h / 2462	----
	Plancher 1	3.44							
	Total		3.20	0.0005	h / 6400	----	0.0013	h / 2462	----
P33	Plancher 2	6.64	3.20	0.0005	h / 6400	----	0.0014	h / 2286	----
	Plancher 1	3.44							
	Total		3.20	0.0005	h / 6400	----	0.0014	h / 2286	----
M3	Plancher 2	6.89	3.45	0.0005	h / 7200	----	0.0009	h / 3898	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7200	----	0.0009	h / 3898	----
M4	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0009	h / 3746	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0009	h / 3746	----
M5	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0010	h / 3381	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0010	h / 3381	----
M6	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0012	h / 2990	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0012	h / 2990	----
M7	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0013	h / 2663	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0013	h / 2663	----
M8	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0014	h / 2380	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0014	h / 2380	----
M9	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0016	h / 2140	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0016	h / 2140	----
M10	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0018	h / 1935	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0018	h / 1935	----
M11	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0019	h / 1806	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0019	h / 1806	----
M12	Plancher 2	6.89	3.45	0.0005	h / 6858	----	0.0020	h / 1738	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6858	----	0.0020	h / 1738	----
M13	Plancher 2	6.89	3.45	0.0005	h / 7193	----	0.0019	h / 1775	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7193	----	0.0019	h / 1775	----
M14	Plancher 2	6.89	3.45	0.0005	h / 7210	----	0.0019	h / 1844	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7210	----	0.0019	h / 1844	----
M15	Plancher 2	6.89	3.45	0.0005	h / 7206	----	0.0018	h / 1932	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7206	----	0.0018	h / 1932	----
M16	Plancher 2	6.89	3.45	0.0005	h / 6918	----	0.0017	h / 2035	----



Distorsions des poteaux, des noyaux et des murs

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Situations sismiques ⁽¹⁾									
Poteau	Niveau	Cote (m)	h (m)	Distorsion X			Distorsion Y		
				Absolue (m)	Relative	Origine	Absolue (m)	Relative	Origine
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 6918	----	0.0017	h / 2035	----
M17	Plancher 2	6.89	3.45	0.0005	h / 7178	----	0.0017	h / 2035	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7178	----	0.0017	h / 2035	----
M1	Plancher 2	6.89	3.45	0.0005	h / 7206	----	0.0009	h / 3888	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7206	----	0.0009	h / 3888	----
M2	Plancher 2	6.89	3.45	0.0005	h / 7206	----	0.0009	h / 3725	----
	Plancher 1	3.44							
	Total		3.45	0.0005	h / 7206	----	0.0009	h / 3725	----
Notes: ⁽¹⁾ Les distorsions sont majorées par la ductilité.									

Les valeurs indiquées prennent en compte les coefficients de déplacement définis pour les effets multiplicateurs du second ordre.

Valeurs maximales

Dévers local maximal des poteaux (δ / h)				
Niveau	Situations durables ou transitoires		Situations sismiques ⁽¹⁾	
	Direction X	Direction Y	Direction X	Direction Y
Plancher 2	----	----	1 / 6400 (P31, ...)	1 / 1700 (P23)
Plancher 1	----	1 / 5900 (P11, ...)	1 / 351 (P13, ...)	1 / 240 (P12, P20)
Notes: ⁽¹⁾ Les déplacements sont majorés par la ductilité.				

Dévers total maximal des poteaux (Δ / H)			
Situations durables ou transitoires		Situations sismiques ⁽¹⁾	
Direction X	Direction Y	Direction X	Direction Y
----	1 / 5900 (P11, ...)	1 / 351 (P13, ...)	1 / 240 (P12, P20)
Notes: ⁽¹⁾ Les déplacements sont majorés par la ductilité.			

Les valeurs indiquées prennent en compte les coefficients de déplacement définis pour les effets multiplicateurs du second ordre.

Dévers local maximal des murs (δ / h)				
Niveau	Situations durables ou transitoires		Situations sismiques ⁽¹⁾	
	Direction X	Direction Y	Direction X	Direction Y
Plancher 2	----	----	1 / 6858 (M4, ...)	1 / 1738 (M12)
Notes: ⁽¹⁾ Les déplacements sont majorés par la ductilité.				

Dévers total maximal des murs (Δ / H)			
Situations durables ou transitoires		Situations sismiques ⁽¹⁾	
Direction X	Direction Y	Direction X	Direction Y
----	----	1 / 6858 (M4, ...)	1 / 1738 (M12)



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Dévers total maximal des murs (Δ / H)			
Situations durables ou transitoires		Situations sismiques ⁽¹⁾	
Direction X	Direction Y	Direction X	Direction Y
Notes: ⁽¹⁾ Les déplacements sont majorés par la ductilité.			

Les valeurs indiquées prennent en compte les coefficients de déplacement définis pour les effets multiplicateurs du second ordre.



Déplacements des poteaux

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Situations durables ou transitoires					
Poteau	Niveau	Cote (m)	Dépl. X (mm)	Dépl. Y (mm)	Dépl. Z (mm)
P5	Plancher 1	3.34	0.32	-0.46	-0.09
	Fondation	-0.40	0.00	0.00	0.00
P6	Plancher 1	3.14	0.32	-0.45	-0.14
	Fondation	-0.40	0.00	0.00	0.00
P7	Plancher 1	3.14	0.32	-0.44	-0.13
	Fondation	-0.40	0.00	0.00	0.00
P8	Plancher 1	3.14	0.32	-0.42	-0.13
	Fondation	-0.40	0.00	0.00	0.00
P9	Plancher 1	3.14	0.32	-0.44	-0.13
	Fondation	-0.40	0.00	0.00	0.00
P10	Plancher 1	3.14	0.32	-0.50	-0.13
	Fondation	-0.40	0.00	0.00	0.00
P11	Plancher 1	3.14	0.32	-0.56	-0.18
	Fondation	-0.40	0.00	0.00	0.00
P12	Plancher 1	3.14	0.32	-0.65	-0.19
	Fondation	-0.40	0.00	0.00	0.00
P13	Plancher 1	3.14	0.32	-0.46	-0.20
	Fondation	-0.40	0.00	0.00	0.00
P14	Plancher 1	3.14	0.32	-0.45	-0.18
	Fondation	-0.40	0.00	0.00	0.00
P15	Plancher 1	3.14	0.32	-0.44	-0.22
	Fondation	-0.40	0.00	0.00	0.00
P16	Plancher 1	3.14	0.32	-0.42	-0.21
	Fondation	-0.40	0.00	0.00	0.00
P17	Plancher 1	3.14	0.32	-0.44	-0.27
	Fondation	-0.40	0.00	0.00	0.00
P18	Plancher 1	3.14	0.32	-0.50	-0.16
	Fondation	-0.40	0.00	0.00	0.00
P19	Plancher 1	3.14	0.32	-0.56	-0.32
	Fondation	-0.40	0.00	0.00	0.00
P20	Plancher 1	3.14	0.32	-0.65	-0.34
	Fondation	-0.40	0.00	0.00	0.00
P21	Plancher 2	6.97	0.38	-0.62	-0.41
	Plancher 1	3.44	0.33	-0.46	-0.39
P23	Plancher 2	6.84	0.38	-0.97	-0.40
	Plancher 1	3.44	0.32	-0.67	-0.33
P31	Plancher 2	6.64	0.38	-0.63	-0.85
	Plancher 1	3.44	0.32	-0.43	-0.67
P32	Plancher 2	6.64	0.38	-0.64	-0.35
	Plancher 1	3.44	0.32	-0.42	-0.25
P33	Plancher 2	6.64	0.38	-0.70	-0.81
	Plancher 1	3.44	0.32	-0.47	-0.65



Déplacements des poteaux

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Situations sismiques ⁽¹⁾					
Poteau	Niveau	Cote (m)	Dépl. X (mm)	Dépl. Y (mm)	Dépl. Z (mm)
P5	Plancher 1	3.34	9.99	-13.12	-0.12
	Fondation	-0.40	0.00	0.00	0.00
P6	Plancher 1	3.14	9.99	-10.57	-0.15
	Fondation	-0.40	0.00	0.00	0.00
P7	Plancher 1	3.14	9.99	-8.71	-0.14
	Fondation	-0.40	0.00	0.00	0.00
P8	Plancher 1	3.14	9.99	-8.23	-0.13
	Fondation	-0.40	0.00	0.00	0.00
P9	Plancher 1	3.14	9.99	-8.51	-0.14
	Fondation	-0.40	0.00	0.00	0.00
P10	Plancher 1	3.14	9.99	-9.34	-0.14
	Fondation	-0.40	0.00	0.00	0.00
P11	Plancher 1	3.14	9.99	-10.68	-0.19
	Fondation	-0.40	0.00	0.00	0.00
P12	Plancher 1	3.14	9.99	-14.77	-0.22
	Fondation	-0.40	0.00	0.00	0.00
P13	Plancher 1	3.14	10.06	-13.12	-0.22
	Fondation	-0.40	0.00	0.00	0.00
P14	Plancher 1	3.14	10.06	-10.57	-0.20
	Fondation	-0.40	0.00	0.00	0.00
P15	Plancher 1	3.14	10.06	-8.71	-0.22
	Fondation	-0.40	0.00	0.00	0.00
P16	Plancher 1	3.14	10.06	-8.23	-0.21
	Fondation	-0.40	0.00	0.00	0.00
P17	Plancher 1	3.14	10.06	-8.51	-0.27
	Fondation	-0.40	0.00	0.00	0.00
P18	Plancher 1	3.14	10.06	-9.34	-0.16
	Fondation	-0.40	0.00	0.00	0.00
P19	Plancher 1	3.14	10.06	-10.68	-0.34
	Fondation	-0.40	0.00	0.00	0.00
P20	Plancher 1	3.14	10.06	-14.77	-0.35
	Fondation	-0.40	0.00	0.00	0.00
P21	Plancher 2	6.97	10.63	-14.17	-0.76
	Plancher 1	3.44	10.15	-13.41	-0.74
P23	Plancher 2	6.84	10.54	-17.76	-0.61
	Plancher 1	3.44	10.06	-15.95	-0.53
P31	Plancher 2	6.64	10.54	-9.49	-0.87
	Plancher 1	3.44	10.06	-8.41	-0.69
P32	Plancher 2	6.64	10.54	-9.71	-0.37
	Plancher 1	3.44	10.06	-8.39	-0.27
P33	Plancher 2	6.64	10.54	-10.27	-0.82
	Plancher 1	3.44	10.06	-8.83	-0.66



Déplacements des poteaux

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Situations sismiques ⁽¹⁾					
Poteau	Niveau	Cote (m)	Dépl. X (mm)	Dépl. Y (mm)	Dépl. Z (mm)
Notes: ⁽¹⁾ Les déplacements sont majorés par la ductilité.					

Les valeurs indiquées prennent en compte les coefficients de déplacement définis pour les effets multiplicateurs du second ordre.



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Dép. en mm. Rotation en radians x 1000

Plancher 1

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.150	0.225	Max.	-0.1085	0.3095	0.3431
		Min.	-0.5968	0.0476	0.0773
		Dif.	0.4883	0.2620	0.2659
0.150	0.475	Max.	-0.0962	0.3008	0.3507
		Min.	-0.5186	0.0388	0.0846
		Dif.	0.4223	0.2620	0.2661
0.150	0.725	Max.	-0.0849	0.2827	0.3445
		Min.	-0.4410	0.0217	0.0781
		Dif.	0.3561	0.2610	0.2664
0.150	0.975	Max.	-0.0774	0.2536	0.3312
		Min.	-0.3677	-0.0047	0.0626
		Dif.	0.2902	0.2583	0.2686
0.150	1.225	Max.	-0.0771	0.2120	0.3108
		Min.	-0.3014	-0.0412	0.0419
		Dif.	0.2243	0.2532	0.2689
0.150	1.475	Max.	-0.0882	0.1612	0.2791
		Min.	-0.2447	-0.0938	0.0252
		Dif.	0.1565	0.2550	0.2539
0.150	2.225	Max.	-0.1390	-0.0488	0.3098
		Min.	-0.2680	-0.1944	0.0447
		Dif.	0.1290	0.1455	0.2651
0.150	2.475	Max.	-0.1533	-0.0463	0.3098
		Min.	-0.3145	-0.1970	0.0447
		Dif.	0.1612	0.1507	0.2651
0.150	2.725	Max.	-0.1892	-0.1032	0.3724
		Min.	-0.3777	-0.1744	0.1067
		Dif.	0.1885	0.0712	0.2656
0.150	2.975	Max.	-0.2155	-0.1032	0.3724
		Min.	-0.4209	-0.1744	0.1067
		Dif.	0.2054	0.0712	0.2656
0.150	3.225	Max.	-0.2552	-0.0915	0.4251
		Min.	-0.4724	-0.1387	0.1479
		Dif.	0.2172	0.0472	0.2772
0.150	3.475	Max.	-0.2800	-0.0915	0.4251
		Min.	-0.5051	-0.1387	0.1479
		Dif.	0.2251	0.0472	0.2772
0.150	3.725	Max.	-0.3102	-0.0426	0.4633
		Min.	-0.5370	-0.0921	0.1625
		Dif.	0.2269	0.0495	0.3008
0.150	3.975	Max.	-0.3263	-0.0426	0.4633
		Min.	-0.5545	-0.0921	0.1625
		Dif.	0.2282	0.0495	0.3008
0.150	4.225	Max.	-0.3423	0.0107	0.4878
		Min.	-0.5626	-0.0308	0.1418
		Dif.	0.2203	0.0415	0.3460
0.150	4.475	Max.	-0.3466	0.0107	0.4877
		Min.	-0.5633	-0.0308	0.1418
		Dif.	0.2167	0.0415	0.3459
0.150	4.725	Max.	-0.3464	0.0742	0.4867
		Min.	-0.5471	0.0210	0.0850
		Dif.	0.2006	0.0531	0.4017
0.150	4.975	Max.	-0.3378	0.0742	0.4867
		Min.	-0.5319	0.0210	0.0850
		Dif.	0.1941	0.0531	0.4017



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.150	5.225	Max.	-0.3190	0.1264	0.4527
		Min.	-0.4926	0.0698	-0.0062
		Dif.	0.1736	0.0567	0.4589
0.150	5.475	Max.	-0.2968	0.1264	0.4527
		Min.	-0.4658	0.0698	-0.0062
		Dif.	0.1690	0.0567	0.4589
0.150	5.725	Max.	-0.2613	0.1701	0.3726
		Min.	-0.4048	0.0902	-0.1411
		Dif.	0.1435	0.0799	0.5136
0.150	5.975	Max.	-0.2291	0.1701	0.3726
		Min.	-0.3720	0.0902	-0.1411
		Dif.	0.1430	0.0799	0.5136
0.150	6.225	Max.	-0.1729	0.1931	0.2033
		Min.	-0.3086	0.0581	-0.2800
		Dif.	0.1358	0.1351	0.4833
0.150	6.475	Max.	-0.1356	0.1931	0.2033
		Min.	-0.2832	0.0581	-0.2800
		Dif.	0.1475	0.1351	0.4833
0.150	6.725	Max.	-0.0816	0.1981	0.0419
		Min.	-0.2899	0.0279	-0.0956
		Dif.	0.2083	0.1703	0.1375
0.175	6.475	Max.	-0.0300	0.7300	0.5087
		Min.	-0.1403	-0.0477	-0.1075
		Dif.	0.1104	0.7777	0.6162
0.198	0.001	Max.	-0.1292	0.3234	0.3663
		Min.	-0.6882	0.0547	0.1042
		Dif.	0.5590	0.2687	0.2621
0.198	0.225	Max.	-0.1169	0.3225	0.3663
		Min.	-0.6156	0.0541	0.1042
		Dif.	0.4987	0.2684	0.2621
0.198	0.475	Max.	-0.1034	0.3175	0.3582
		Min.	-0.5353	0.0502	0.0987
		Dif.	0.4319	0.2673	0.2595
0.198	0.725	Max.	-0.0913	0.3033	0.3463
		Min.	-0.4565	0.0393	0.0868
		Dif.	0.3652	0.2640	0.2595
0.198	0.975	Max.	-0.0827	0.2786	0.3316
		Min.	-0.3825	0.0192	0.0694
		Dif.	0.2998	0.2594	0.2622
0.198	1.225	Max.	-0.0801	0.2441	0.3113
		Min.	-0.3159	-0.0123	0.0472
		Dif.	0.2358	0.2564	0.2641
0.198	1.475	Max.	-0.0865	0.2014	0.2833
		Min.	-0.2596	-0.0651	0.0268
		Dif.	0.1731	0.2666	0.2566
0.198	1.690	Max.	-0.0928	0.2407	0.2579
		Min.	-0.2227	-0.3169	0.0187
		Dif.	0.1299	0.5576	0.2393
0.198	1.990	Max.	-0.1170	0.2407	0.2579
		Min.	-0.2214	-0.3169	0.0187
		Dif.	0.1044	0.5576	0.2393
0.198	2.225	Max.	-0.1382	-0.0512	0.2871
		Min.	-0.2758	-0.2395	0.0321
		Dif.	0.1377	0.1884	0.2551
0.198	2.475	Max.	-0.1602	-0.0991	0.3250
		Min.	-0.3318	-0.2300	0.0636
		Dif.	0.1716	0.1309	0.2613



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.198	2.725	Max.	-0.1933	-0.1290	0.3559
		Min.	-0.3901	-0.2151	0.0950
		Dif.	0.1968	0.0861	0.2609
0.198	2.975	Max.	-0.2272	-0.1324	0.3856
		Min.	-0.4399	-0.1972	0.1259
		Dif.	0.2127	0.0649	0.2597
0.198	3.225	Max.	-0.2642	-0.1141	0.4099
		Min.	-0.4866	-0.1803	0.1434
		Dif.	0.2223	0.0661	0.2666
0.198	3.475	Max.	-0.2947	-0.0917	0.4376
		Min.	-0.5243	-0.1600	0.1590
		Dif.	0.2296	0.0683	0.2786
0.198	3.725	Max.	-0.3221	-0.0562	0.4553
		Min.	-0.5540	-0.1263	0.1643
		Dif.	0.2320	0.0701	0.2910
0.198	3.975	Max.	-0.3418	-0.0292	0.4700
		Min.	-0.5726	-0.0975	0.1674
		Dif.	0.2308	0.0683	0.3026
0.198	4.225	Max.	-0.3565	0.0084	0.4830
		Min.	-0.5810	-0.0546	0.1556
		Dif.	0.2245	0.0630	0.3274
0.198	4.475	Max.	-0.3625	0.0402	0.4905
		Min.	-0.5786	-0.0238	0.1371
		Dif.	0.2162	0.0641	0.3533
0.198	4.725	Max.	-0.3618	0.0855	0.4892
		Min.	-0.5645	0.0106	0.1090
		Dif.	0.2027	0.0749	0.3802
0.198	4.975	Max.	-0.3531	0.1223	0.4843
		Min.	-0.5423	0.0380	0.0748
		Dif.	0.1892	0.0843	0.4095
0.198	5.225	Max.	-0.3350	0.1605	0.4676
		Min.	-0.5077	0.0727	0.0296
		Dif.	0.1728	0.0877	0.4380
0.198	5.475	Max.	-0.3109	0.1891	0.4445
		Min.	-0.4684	0.0977	-0.0196
		Dif.	0.1576	0.0914	0.4641
0.198	5.725	Max.	-0.2771	0.2196	0.4065
		Min.	-0.4171	0.1338	-0.0822
		Dif.	0.1400	0.0858	0.4887
0.198	5.975	Max.	-0.2376	0.2684	0.3564
		Min.	-0.3623	0.1847	-0.1658
		Dif.	0.1246	0.0837	0.5222
0.198	6.225	Max.	-0.1725	0.4128	0.2887
		Min.	-0.2799	0.2740	-0.2495
		Dif.	0.1074	0.1387	0.5382
0.198	6.425	Max.	-0.0528	0.7300	0.5087
		Min.	-0.1603	-0.0477	-0.1075
		Dif.	0.1075	0.7777	0.6162
0.198	6.725	Max.	0.0997	0.7374	0.5087
		Min.	-0.1074	-0.0550	-0.1075
		Dif.	0.2071	0.7924	0.6162
0.198	6.750	Max.	-0.0795	0.1981	0.0419
		Min.	-0.2837	0.0279	-0.0956
		Dif.	0.2041	0.1701	0.1375
0.448	0.001	Max.	-0.1684	0.3428	0.3627
		Min.	-0.7795	0.0631	0.1244
		Dif.	0.6111	0.2798	0.2382



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.448	0.225	Max.	-0.1542	0.3419	0.3627
		Min.	-0.7025	0.0625	0.1244
		Dif.	0.5483	0.2794	0.2382
0.448	0.475	Max.	-0.1385	0.3381	0.3443
		Min.	-0.6175	0.0620	0.1151
		Dif.	0.4790	0.2761	0.2292
0.448	0.725	Max.	-0.1230	0.3213	0.3364
		Min.	-0.5345	0.0543	0.0976
		Dif.	0.4115	0.2670	0.2388
0.448	0.975	Max.	-0.1106	0.3010	0.3187
		Min.	-0.4561	0.0366	0.0833
		Dif.	0.3456	0.2643	0.2354
0.448	1.225	Max.	-0.1037	0.2797	0.2908
		Min.	-0.3831	0.0069	0.0740
		Dif.	0.2794	0.2728	0.2167
0.448	1.475	Max.	-0.1067	0.2455	0.2755
		Min.	-0.3176	-0.0612	0.0516
		Dif.	0.2109	0.3067	0.2239
0.448	1.690	Max.	-0.1183	0.2407	0.2579
		Min.	-0.2663	-0.3169	0.0187
		Dif.	0.1480	0.5576	0.2393
0.448	1.990	Max.	-0.1505	0.2438	0.2579
		Min.	-0.2566	-0.3201	0.0187
		Dif.	0.1061	0.5639	0.2393
0.448	2.225	Max.	-0.1636	-0.0573	0.2766
		Min.	-0.3281	-0.2900	0.0567
		Dif.	0.1645	0.2327	0.2199
0.448	2.475	Max.	-0.1907	-0.1281	0.3070
		Min.	-0.3995	-0.2738	0.0837
		Dif.	0.2088	0.1457	0.2233
0.448	2.725	Max.	-0.2304	-0.1534	0.3346
		Min.	-0.4653	-0.2558	0.1080
		Dif.	0.2349	0.1024	0.2266
0.448	2.975	Max.	-0.2722	-0.1477	0.3716
		Min.	-0.5236	-0.2319	0.1289
		Dif.	0.2515	0.0842	0.2427
0.448	3.225	Max.	-0.3142	-0.1236	0.3957
		Min.	-0.5736	-0.2165	0.1431
		Dif.	0.2595	0.0930	0.2526
0.448	3.475	Max.	-0.3537	-0.0914	0.4084
		Min.	-0.6144	-0.1959	0.1547
		Dif.	0.2607	0.1045	0.2537
0.448	3.725	Max.	-0.3873	-0.0552	0.4382
		Min.	-0.6428	-0.1531	0.1622
		Dif.	0.2555	0.0979	0.2760
0.448	3.975	Max.	-0.4130	-0.0191	0.4515
		Min.	-0.6604	-0.1140	0.1639
		Dif.	0.2474	0.0949	0.2876
0.448	4.225	Max.	-0.4301	0.0227	0.4502
		Min.	-0.6669	-0.0692	0.1526
		Dif.	0.2368	0.0918	0.2977
0.448	4.475	Max.	-0.4378	0.0638	0.4709
		Min.	-0.6594	-0.0255	0.1346
		Dif.	0.2216	0.0893	0.3363
0.448	4.725	Max.	-0.4380	0.1125	0.4695
		Min.	-0.6388	0.0094	0.1128
		Dif.	0.2008	0.1031	0.3567



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.448	4.975	Max.	-0.4267	0.1701	0.4455
		Min.	-0.6082	0.0478	0.0863
		Dif.	0.1815	0.1223	0.3591
0.448	5.225	Max.	-0.3981	0.2097	0.4462
		Min.	-0.5715	0.0806	0.0457
		Dif.	0.1734	0.1291	0.4004
0.448	5.475	Max.	-0.3576	0.2502	0.4227
		Min.	-0.5294	0.1151	0.0064
		Dif.	0.1717	0.1351	0.4162
0.448	5.725	Max.	-0.3050	0.3025	0.3763
		Min.	-0.4782	0.1587	-0.0152
		Dif.	0.1732	0.1438	0.3915
0.448	5.975	Max.	-0.2443	0.3639	0.3323
		Min.	-0.4078	0.2169	-0.0672
		Dif.	0.1635	0.1470	0.3994
0.448	6.225	Max.	-0.1707	0.4545	0.3228
		Min.	-0.3130	0.2601	-0.0738
		Dif.	0.1422	0.1944	0.3966
0.448	6.425	Max.	-0.0885	0.7447	0.5087
		Min.	-0.2244	-0.0622	-0.1075
		Dif.	0.1359	0.8069	0.6162
0.448	6.725	Max.	0.0090	0.7300	0.5087
		Min.	-0.1173	-0.0477	-0.1075
		Dif.	0.1264	0.7777	0.6162
0.448	6.750	Max.	-0.1030	0.3424	0.0360
		Min.	-0.2413	-0.1265	-0.0703
		Dif.	0.1383	0.4689	0.1062
0.475	6.475	Max.	-0.0866	0.7300	0.5087
		Min.	-0.2032	-0.0477	-0.1075
		Dif.	0.1167	0.7777	0.6162
0.698	0.001	Max.	-0.2083	0.3644	0.3325
		Min.	-0.8675	0.0690	0.1258
		Dif.	0.6592	0.2954	0.2067
0.698	0.225	Max.	-0.1926	0.3635	0.3325
		Min.	-0.7858	0.0683	0.1258
		Dif.	0.5931	0.2952	0.2067
0.698	0.475	Max.	-0.1754	0.3609	0.3183
		Min.	-0.6952	0.0668	0.1197
		Dif.	0.5198	0.2941	0.1986
0.698	0.725	Max.	-0.1598	0.3441	0.3089
		Min.	-0.6122	0.0590	0.1037
		Dif.	0.4524	0.2851	0.2053
0.698	0.975	Max.	-0.1407	0.3087	0.2895
		Min.	-0.5154	0.0187	0.1017
		Dif.	0.3747	0.2900	0.1878
0.698	1.225	Max.	-0.1337	0.2877	0.2632
		Min.	-0.4425	-0.0113	0.0907
		Dif.	0.3088	0.2990	0.1725
0.698	1.475	Max.	-0.1373	0.2707	0.2629
		Min.	-0.3722	-0.0597	0.0854
		Dif.	0.2349	0.3304	0.1775
0.698	1.690	Max.	-0.1378	0.2487	0.2579
		Min.	-0.3160	-0.3250	0.0187
		Dif.	0.1782	0.5737	0.2393
0.698	1.990	Max.	-0.1734	0.2407	0.2579
		Min.	-0.3026	-0.3169	0.0187
		Dif.	0.1292	0.5576	0.2393



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.698	2.225	Max.	-0.1986	-0.0614	0.2761
		Min.	-0.3798	-0.3263	0.0876
		Dif.	0.1811	0.2649	0.1885
0.698	2.475	Max.	-0.2269	-0.1319	0.2856
		Min.	-0.4608	-0.3094	0.0999
		Dif.	0.2340	0.1775	0.1857
0.698	2.725	Max.	-0.2648	-0.1538	0.2987
		Min.	-0.5374	-0.2926	0.1094
		Dif.	0.2726	0.1387	0.1894
0.698	2.975	Max.	-0.3106	-0.1553	0.3378
		Min.	-0.5917	-0.2614	0.1280
		Dif.	0.2811	0.1061	0.2097
0.698	3.225	Max.	-0.3650	-0.1249	0.3542
		Min.	-0.6574	-0.2348	0.1321
		Dif.	0.2925	0.1100	0.2220
0.698	3.475	Max.	-0.4045	-0.0927	0.3670
		Min.	-0.6981	-0.2141	0.1437
		Dif.	0.2936	0.1214	0.2233
0.698	3.725	Max.	-0.4381	-0.0566	0.3969
		Min.	-0.7267	-0.1712	0.1511
		Dif.	0.2885	0.1146	0.2457
0.698	3.975	Max.	-0.4732	-0.0106	0.4058
		Min.	-0.7441	-0.1183	0.1521
		Dif.	0.2709	0.1077	0.2537
0.698	4.225	Max.	-0.4929	0.0310	0.4045
		Min.	-0.7480	-0.0733	0.1406
		Dif.	0.2551	0.1043	0.2639
0.698	4.475	Max.	-0.5032	0.0708	0.4250
		Min.	-0.7379	-0.0283	0.1228
		Dif.	0.2347	0.0991	0.3022
0.698	4.725	Max.	-0.4982	0.1345	0.4171
		Min.	-0.7057	0.0179	0.1162
		Dif.	0.2076	0.1165	0.3009
0.698	4.975	Max.	-0.4701	0.1922	0.3934
		Min.	-0.6921	0.0562	0.0894
		Dif.	0.2220	0.1360	0.3040
0.698	5.225	Max.	-0.4321	0.2315	0.3943
		Min.	-0.6648	0.0893	0.0487
		Dif.	0.2328	0.1422	0.3456
0.698	5.475	Max.	-0.3692	0.2971	0.3536
		Min.	-0.6062	0.1555	0.0509
		Dif.	0.2370	0.1416	0.3027
0.698	5.725	Max.	-0.3172	0.3496	0.3078
		Min.	-0.5544	0.1989	0.0288
		Dif.	0.2372	0.1507	0.2790
0.698	5.975	Max.	-0.2502	0.3865	0.2685
		Min.	-0.4739	0.2263	0.0397
		Dif.	0.2237	0.1603	0.2288
0.698	6.225	Max.	-0.1854	0.4478	0.2511
		Min.	-0.3776	0.1838	0.0820
		Dif.	0.1923	0.2640	0.1690
0.698	6.475	Max.	-0.1487	0.4929	0.2607
		Min.	-0.2657	0.0235	0.1459
		Dif.	0.1170	0.4693	0.1148
0.698	6.725	Max.	-0.1038	0.4327	0.2439
		Min.	-0.2153	-0.1232	0.1174
		Dif.	0.1115	0.5559	0.1265



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.698	6.750	Max.	-0.1056	0.3437	0.0360
		Min.	-0.2301	-0.1279	-0.0703
		Dif.	0.1245	0.4716	0.1064
0.948	0.001	Max.	-0.2463	0.3848	0.2807
		Min.	-0.9443	0.0734	0.1141
		Dif.	0.6981	0.3114	0.1666
0.948	0.225	Max.	-0.2295	0.3839	0.2807
		Min.	-0.8581	0.0727	0.1141
		Dif.	0.6286	0.3112	0.1666
0.948	0.475	Max.	-0.2112	0.3810	0.2672
		Min.	-0.7627	0.0699	0.1090
		Dif.	0.5515	0.3111	0.1581
0.948	0.725	Max.	-0.1943	0.3724	0.2567
		Min.	-0.6643	0.0581	0.1108
		Dif.	0.4700	0.3143	0.1458
0.948	0.975	Max.	-0.1749	0.3419	0.2403
		Min.	-0.5795	0.0198	0.1012
		Dif.	0.4045	0.3220	0.1391
0.948	1.225	Max.	-0.1705	0.2995	0.2321
		Min.	-0.4934	-0.0229	0.1007
		Dif.	0.3229	0.3223	0.1314
0.948	1.475	Max.	-0.1799	0.2579	0.2340
		Min.	-0.4233	-0.0855	0.1076
		Dif.	0.2433	0.3434	0.1264
0.948	1.690	Max.	-0.1951	0.1550	0.2178
		Min.	-0.3768	-0.2479	0.0906
		Dif.	0.1817	0.4029	0.1272
0.948	1.990	Max.	-0.2306	0.1472	0.2178
		Min.	-0.3687	-0.2400	0.0906
		Dif.	0.1381	0.3872	0.1272
0.948	2.225	Max.	-0.2445	-0.0370	0.2542
		Min.	-0.4323	-0.3223	0.1096
		Dif.	0.1878	0.2853	0.1446
0.948	2.475	Max.	-0.2690	-0.1202	0.2521
		Min.	-0.5135	-0.3264	0.1082
		Dif.	0.2446	0.2061	0.1439
0.948	2.725	Max.	-0.3052	-0.1547	0.2603
		Min.	-0.5953	-0.3138	0.1081
		Dif.	0.2901	0.1591	0.1522
0.948	2.975	Max.	-0.3540	-0.1654	0.2715
		Min.	-0.6670	-0.2908	0.1084
		Dif.	0.3131	0.1255	0.1631
0.948	3.225	Max.	-0.4046	-0.1407	0.3043
		Min.	-0.7221	-0.2703	0.1252
		Dif.	0.3176	0.1296	0.1791
0.948	3.475	Max.	-0.4508	-0.0939	0.3154
		Min.	-0.7737	-0.2325	0.1254
		Dif.	0.3230	0.1386	0.1900
0.948	3.725	Max.	-0.4910	-0.0442	0.3196
		Min.	-0.8082	-0.1864	0.1242
		Dif.	0.3172	0.1422	0.1954
0.948	3.975	Max.	-0.5218	-0.0105	0.3393
		Min.	-0.8251	-0.1485	0.1236
		Dif.	0.3033	0.1380	0.2157
0.948	4.225	Max.	-0.5452	0.0399	0.3457
		Min.	-0.8255	-0.0781	0.1201
		Dif.	0.2803	0.1180	0.2256



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.948	4.475	Max.	-0.5528	0.1052	0.3371
		Min.	-0.8110	-0.0203	0.1140
		Dif.	0.2582	0.1255	0.2231
0.948	4.725	Max.	-0.5343	0.1516	0.3366
		Min.	-0.8062	0.0119	0.0899
		Dif.	0.2720	0.1397	0.2467
0.948	4.975	Max.	-0.4958	0.2143	0.3278
		Min.	-0.7818	0.0646	0.0839
		Dif.	0.2860	0.1498	0.2439
0.948	5.225	Max.	-0.4473	0.2755	0.2999
		Min.	-0.7383	0.1182	0.0864
		Dif.	0.2910	0.1573	0.2135
0.948	5.475	Max.	-0.3892	0.3385	0.2562
		Min.	-0.7001	0.1695	0.0653
		Dif.	0.3109	0.1690	0.1909
0.948	5.725	Max.	-0.3306	0.3666	0.2294
		Min.	-0.6223	0.2151	0.0667
		Dif.	0.2917	0.1515	0.1627
0.948	5.975	Max.	-0.2691	0.4025	0.2027
		Min.	-0.5317	0.2139	0.0852
		Dif.	0.2626	0.1886	0.1175
0.948	6.225	Max.	-0.2174	0.4559	0.1897
		Min.	-0.4277	0.1525	0.0945
		Dif.	0.2103	0.3034	0.0952
0.948	6.475	Max.	-0.1874	0.4921	0.1652
		Min.	-0.3142	0.0473	0.0849
		Dif.	0.1267	0.4447	0.0803
0.948	6.725	Max.	-0.1346	0.4921	0.0889
		Min.	-0.2474	-0.0392	0.0395
		Dif.	0.1129	0.5313	0.0495
0.948	6.750	Max.	-0.1267	0.4966	0.0162
		Min.	-0.2504	-0.0234	-0.0365
		Dif.	0.1236	0.5200	0.0527
1.198	0.001	Max.	-0.2799	0.4046	0.2190
		Min.	-1.0058	0.0771	0.0906
		Dif.	0.7260	0.3275	0.1284
1.198	0.225	Max.	-0.2623	0.4037	0.2190
		Min.	-0.9153	0.0764	0.0906
		Dif.	0.6530	0.3273	0.1284
1.198	0.475	Max.	-0.2429	0.3983	0.2043
		Min.	-0.8148	0.0702	0.0863
		Dif.	0.5719	0.3281	0.1180
1.198	0.725	Max.	-0.2260	0.3897	0.1962
		Min.	-0.7165	0.0584	0.0856
		Dif.	0.4905	0.3314	0.1106
1.198	0.975	Max.	-0.2119	0.3673	0.1884
		Min.	-0.6207	0.0344	0.0847
		Dif.	0.4087	0.3330	0.1037
1.198	1.225	Max.	-0.2074	0.3251	0.1807
		Min.	-0.5347	-0.0085	0.0836
		Dif.	0.3273	0.3336	0.0971
1.198	1.475	Max.	-0.2155	0.2415	0.1737
		Min.	-0.4680	-0.0939	0.0905
		Dif.	0.2525	0.3354	0.0832
1.198	1.690	Max.	-0.2351	0.1042	0.1175
		Min.	-0.4292	-0.2123	0.0744
		Dif.	0.1941	0.3165	0.0431



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.198	1.990	Max.	-0.2667	0.1042	0.1175
		Min.	-0.4297	-0.2123	0.0744
		Dif.	0.1630	0.3165	0.0431
1.198	2.225	Max.	-0.2832	-0.0224	0.1932
		Min.	-0.4807	-0.3200	0.0934
		Dif.	0.1975	0.2976	0.0998
1.198	2.475	Max.	-0.3083	-0.1102	0.2032
		Min.	-0.5580	-0.3358	0.0911
		Dif.	0.2496	0.2256	0.1120
1.198	2.725	Max.	-0.3458	-0.1654	0.2100
		Min.	-0.6406	-0.3201	0.0903
		Dif.	0.2949	0.1548	0.1197
1.198	2.975	Max.	-0.3916	-0.1685	0.2198
		Min.	-0.7154	-0.3047	0.0919
		Dif.	0.3238	0.1361	0.1278
1.198	3.225	Max.	-0.4420	-0.1416	0.2295
		Min.	-0.7820	-0.2889	0.0935
		Dif.	0.3400	0.1473	0.1360
1.198	3.475	Max.	-0.4883	-0.0950	0.2397
		Min.	-0.8336	-0.2510	0.0947
		Dif.	0.3453	0.1559	0.1450
1.198	3.725	Max.	-0.5286	-0.0455	0.2453
		Min.	-0.8680	-0.2047	0.0920
		Dif.	0.3395	0.1592	0.1532
1.198	3.975	Max.	-0.5624	-0.0014	0.2513
		Min.	-0.8862	-0.1534	0.0889
		Dif.	0.3238	0.1520	0.1625
1.198	4.225	Max.	-0.5819	0.0489	0.2577
		Min.	-0.8905	-0.0830	0.0854
		Dif.	0.3086	0.1319	0.1723
1.198	4.475	Max.	-0.5806	0.1127	0.2491
		Min.	-0.8850	-0.0236	0.0793
		Dif.	0.3044	0.1364	0.1698
1.198	4.725	Max.	-0.5533	0.1735	0.2404
		Min.	-0.8766	0.0204	0.0732
		Dif.	0.3233	0.1531	0.1672
1.198	4.975	Max.	-0.5149	0.2365	0.2316
		Min.	-0.8522	0.0729	0.0671
		Dif.	0.3373	0.1636	0.1645
1.198	5.225	Max.	-0.4664	0.2983	0.2040
		Min.	-0.8087	0.1260	0.0694
		Dif.	0.3422	0.1722	0.1346
1.198	5.475	Max.	-0.4089	0.3361	0.1772
		Min.	-0.7476	0.1711	0.0708
		Dif.	0.3386	0.1650	0.1064
1.198	5.725	Max.	-0.3504	0.3643	0.1539
		Min.	-0.6698	0.2167	0.0688
		Dif.	0.3194	0.1476	0.0851
1.198	5.975	Max.	-0.2935	0.4241	0.1590
		Min.	-0.5740	0.1997	0.0758
		Dif.	0.2805	0.2244	0.0833
1.198	6.225	Max.	-0.2468	0.4811	0.1471
		Min.	-0.4610	0.1555	0.0594
		Dif.	0.2142	0.3256	0.0877
1.198	6.475	Max.	-0.2109	0.5280	0.0993
		Min.	-0.3370	0.0990	0.0225
		Dif.	0.1262	0.4291	0.0768



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.198	6.725	Max.	-0.1429	0.5322	0.0353
		Min.	-0.2532	0.0261	0.0004
		Dif.	0.1103	0.5061	0.0350
1.198	6.750	Max.	-0.1293	0.4966	0.0162
		Min.	-0.2426	-0.0234	-0.0365
		Dif.	0.1134	0.5200	0.0527
1.448	0.001	Max.	-0.3071	0.4223	0.1541
		Min.	-1.0500	0.0801	0.0555
		Dif.	0.7429	0.3421	0.0987
1.448	0.225	Max.	-0.2888	0.4214	0.1541
		Min.	-0.9555	0.0794	0.0555
		Dif.	0.6667	0.3420	0.0987
1.448	0.475	Max.	-0.2688	0.4179	0.1427
		Min.	-0.8507	0.0760	0.0517
		Dif.	0.5819	0.3420	0.0910
1.448	0.725	Max.	-0.2518	0.4094	0.1382
		Min.	-0.7524	0.0641	0.0476
		Dif.	0.5006	0.3453	0.0906
1.448	0.975	Max.	-0.2391	0.3384	0.1224
		Min.	-0.6461	0.0082	0.0465
		Dif.	0.4070	0.3302	0.0759
1.448	1.225	Max.	-0.2345	0.2963	0.1181
		Min.	-0.5602	-0.0348	0.0422
		Dif.	0.3257	0.3311	0.0759
1.448	1.475	Max.	-0.2418	0.2324	0.1182
		Min.	-0.4986	-0.0867	0.0542
		Dif.	0.2568	0.3191	0.0640
1.448	1.690	Max.	-0.2545	0.1042	0.1175
		Min.	-0.4578	-0.2123	0.0744
		Dif.	0.2032	0.3165	0.0431
1.448	1.990	Max.	-0.2857	0.1042	0.1175
		Min.	-0.4587	-0.2123	0.0744
		Dif.	0.1730	0.3165	0.0431
1.448	2.225	Max.	-0.3101	-0.0370	0.1330
		Min.	-0.5156	-0.3201	0.0651
		Dif.	0.2055	0.2830	0.0680
1.448	2.475	Max.	-0.3380	-0.1054	0.1415
		Min.	-0.5915	-0.3423	0.0600
		Dif.	0.2535	0.2369	0.0816
1.448	2.725	Max.	-0.3717	-0.1481	0.1439
		Min.	-0.6772	-0.3362	0.0591
		Dif.	0.3055	0.1881	0.0849
1.448	2.975	Max.	-0.4171	-0.1675	0.1518
		Min.	-0.7524	-0.3046	0.0625
		Dif.	0.3353	0.1371	0.0893
1.448	3.225	Max.	-0.4691	-0.1410	0.1534
		Min.	-0.8243	-0.2934	0.0560
		Dif.	0.3552	0.1523	0.0973
1.448	3.475	Max.	-0.5152	-0.0946	0.1631
		Min.	-0.8760	-0.2553	0.0577
		Dif.	0.3608	0.1607	0.1054
1.448	3.725	Max.	-0.5553	-0.0449	0.1692
		Min.	-0.9107	-0.2092	0.0545
		Dif.	0.3554	0.1643	0.1146
1.448	3.975	Max.	-0.5864	0.0034	0.1655
		Min.	-0.9324	-0.1511	0.0508
		Dif.	0.3459	0.1545	0.1148



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.448	4.225	Max.	-0.6045	0.0537	0.1719
		Min.	-0.9382	-0.0806	0.0473
		Dif.	0.3338	0.1343	0.1247
1.448	4.475	Max.	-0.5985	0.1195	0.1633
		Min.	-0.9373	-0.0232	0.0411
		Dif.	0.3388	0.1427	0.1221
1.448	4.725	Max.	-0.5663	0.1835	0.1509
		Min.	-0.9233	0.0274	0.0427
		Dif.	0.3571	0.1561	0.1082
1.448	4.975	Max.	-0.5278	0.2447	0.1422
		Min.	-0.8989	0.0816	0.0366
		Dif.	0.3712	0.1631	0.1056
1.448	5.225	Max.	-0.4793	0.3042	0.1167
		Min.	-0.8554	0.1369	0.0367
		Dif.	0.3761	0.1672	0.0799
1.448	5.475	Max.	-0.4249	0.3376	0.1126
		Min.	-0.7746	0.1872	0.0338
		Dif.	0.3497	0.1504	0.0788
1.448	5.725	Max.	-0.3664	0.3765	0.1027
		Min.	-0.6967	0.2220	0.0185
		Dif.	0.3303	0.1546	0.0842
1.448	5.975	Max.	-0.3090	0.4438	0.1114
		Min.	-0.6016	0.1977	0.0220
		Dif.	0.2926	0.2461	0.0894
1.448	6.225	Max.	-0.2597	0.5087	0.0971
		Min.	-0.4663	0.1624	0.0173
		Dif.	0.2065	0.3463	0.0798
1.448	6.475	Max.	-0.2245	0.5547	0.0520
		Min.	-0.3416	0.1071	-0.0224
		Dif.	0.1171	0.4476	0.0743
1.448	6.725	Max.	-0.1456	0.5610	0.0110
		Min.	-0.2551	0.0757	-0.0280
		Dif.	0.1095	0.4853	0.0390
1.448	6.750	Max.	-0.1351	0.5517	-0.0129
		Min.	-0.2469	0.0587	-0.0498
		Dif.	0.1119	0.4930	0.0369
1.698	0.001	Max.	-0.3255	0.4386	0.0908
		Min.	-1.0756	0.0843	0.0073
		Dif.	0.7501	0.3543	0.0835
1.698	0.225	Max.	-0.3063	0.4378	0.0908
		Min.	-0.9775	0.0835	0.0073
		Dif.	0.6712	0.3542	0.0835
1.698	0.475	Max.	-0.2854	0.4336	0.0797
		Min.	-0.8687	0.0791	0.0020
		Dif.	0.5833	0.3545	0.0776
1.698	0.725	Max.	-0.2669	0.4167	0.0677
		Min.	-0.7599	0.0605	-0.0011
		Dif.	0.4930	0.3562	0.0688
1.698	0.975	Max.	-0.2534	0.3599	0.0648
		Min.	-0.6621	0.0063	0.0002
		Dif.	0.4087	0.3536	0.0646
1.698	1.225	Max.	-0.2491	0.2963	0.0544
		Min.	-0.5725	-0.0366	-0.0045
		Dif.	0.3234	0.3330	0.0589
1.698	1.475	Max.	-0.2597	0.2196	0.0470
		Min.	-0.5097	-0.0901	-0.0038
		Dif.	0.2500	0.3097	0.0507



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.698	1.690	Max.	-0.2761	0.0735	0.0137
		Min.	-0.4740	-0.2057	-0.0185
		Dif.	0.1978	0.2792	0.0322
1.698	1.990	Max.	-0.3078	0.0735	0.0137
		Min.	-0.4817	-0.2057	-0.0185
		Dif.	0.1739	0.2792	0.0323
1.698	2.225	Max.	-0.3279	-0.0407	0.0610
		Min.	-0.5350	-0.3145	0.0175
		Dif.	0.2071	0.2738	0.0436
1.698	2.475	Max.	-0.3557	-0.1076	0.0730
		Min.	-0.6114	-0.3448	0.0212
		Dif.	0.2558	0.2372	0.0518
1.698	2.725	Max.	-0.3910	-0.1483	0.0819
		Min.	-0.6969	-0.3424	0.0228
		Dif.	0.3059	0.1942	0.0591
1.698	2.975	Max.	-0.4351	-0.1666	0.0844
		Min.	-0.7781	-0.3085	0.0224
		Dif.	0.3430	0.1419	0.0620
1.698	3.225	Max.	-0.4845	-0.1448	0.0916
		Min.	-0.8483	-0.2964	0.0258
		Dif.	0.3638	0.1515	0.0658
1.698	3.475	Max.	-0.5317	-0.0940	0.0952
		Min.	-0.9021	-0.2597	0.0243
		Dif.	0.3704	0.1657	0.0710
1.698	3.725	Max.	-0.5701	-0.0389	0.0936
		Min.	-0.9399	-0.2076	0.0209
		Dif.	0.3698	0.1687	0.0727
1.698	3.975	Max.	-0.6010	0.0069	0.0984
		Min.	-0.9629	-0.1590	0.0173
		Dif.	0.3619	0.1659	0.0811
1.698	4.225	Max.	-0.6140	0.0606	0.0967
		Min.	-0.9699	-0.0803	0.0139
		Dif.	0.3559	0.1408	0.0828
1.698	4.475	Max.	-0.6035	0.1291	0.0877
		Min.	-0.9665	-0.0128	0.0119
		Dif.	0.3630	0.1419	0.0758
1.698	4.725	Max.	-0.5733	0.1905	0.0762
		Min.	-0.9596	0.0299	0.0085
		Dif.	0.3863	0.1607	0.0678
1.698	4.975	Max.	-0.5334	0.2529	0.0697
		Min.	-0.9248	0.0904	0.0040
		Dif.	0.3914	0.1625	0.0657
1.698	5.225	Max.	-0.4868	0.3053	0.0621
		Min.	-0.8666	0.1534	0.0001
		Dif.	0.3798	0.1519	0.0620
1.698	5.475	Max.	-0.4307	0.3403	0.0555
		Min.	-0.8010	0.2013	-0.0151
		Dif.	0.3703	0.1390	0.0707
1.698	5.725	Max.	-0.3770	0.3956	0.0541
		Min.	-0.7051	0.2206	-0.0252
		Dif.	0.3281	0.1750	0.0793
1.698	5.975	Max.	-0.3244	0.4673	0.0488
		Min.	-0.5910	0.2099	-0.0283
		Dif.	0.2666	0.2575	0.0771
1.698	6.225	Max.	-0.2777	0.5379	0.0171
		Min.	-0.4687	0.1551	-0.0497
		Dif.	0.1910	0.3828	0.0668



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.698	6.475	Max.	-0.2286	0.5655	0.0119
		Min.	-0.3362	0.1299	-0.0528
		Dif.	0.1075	0.4356	0.0647
1.698	6.725	Max.	-0.1423	0.5734	-0.0139
		Min.	-0.2481	0.1120	-0.0612
		Dif.	0.1058	0.4613	0.0473
1.698	6.750	Max.	-0.1327	0.5696	-0.0340
		Min.	-0.2403	0.1125	-0.0761
		Dif.	0.1076	0.4571	0.0420
1.948	0.001	Max.	-0.3293	0.4571	0.0295
		Min.	-1.0882	0.0888	-0.0395
		Dif.	0.7589	0.3683	0.0690
1.948	0.225	Max.	-0.3094	0.4562	0.0295
		Min.	-0.9856	0.0882	-0.0395
		Dif.	0.6762	0.3680	0.0690
1.948	0.475	Max.	-0.2866	0.4476	0.0138
		Min.	-0.8730	0.0767	-0.0459
		Dif.	0.5864	0.3709	0.0597
1.948	0.725	Max.	-0.2679	0.4312	0.0022
		Min.	-0.7643	0.0576	-0.0494
		Dif.	0.4964	0.3736	0.0516
1.948	0.975	Max.	-0.2539	0.3962	-0.0073
		Min.	-0.6599	0.0300	-0.0554
		Dif.	0.4059	0.3661	0.0482
1.948	1.225	Max.	-0.2551	0.3282	-0.0108
		Min.	-0.5647	-0.0085	-0.0670
		Dif.	0.3095	0.3367	0.0562
1.948	1.475	Max.	-0.2629	0.2087	-0.0103
		Min.	-0.5017	-0.0820	-0.0636
		Dif.	0.2389	0.2907	0.0533
1.948	1.690	Max.	-0.2784	0.0799	0.0137
		Min.	-0.4705	-0.2121	-0.0185
		Dif.	0.1921	0.2920	0.0322
1.948	1.990	Max.	-0.3104	0.0735	0.0137
		Min.	-0.4778	-0.2057	-0.0185
		Dif.	0.1674	0.2792	0.0323
1.948	2.225	Max.	-0.3321	-0.0516	0.0044
		Min.	-0.5370	-0.3210	-0.0314
		Dif.	0.2049	0.2695	0.0358
1.948	2.475	Max.	-0.3618	-0.1147	0.0096
		Min.	-0.6153	-0.3516	-0.0247
		Dif.	0.2535	0.2369	0.0343
1.948	2.725	Max.	-0.3980	-0.1654	0.0158
		Min.	-0.7038	-0.3406	-0.0192
		Dif.	0.3058	0.1752	0.0350
1.948	2.975	Max.	-0.4433	-0.1770	0.0166
		Min.	-0.7838	-0.3134	-0.0178
		Dif.	0.3405	0.1365	0.0344
1.948	3.225	Max.	-0.4919	-0.1446	0.0173
		Min.	-0.8562	-0.3004	-0.0165
		Dif.	0.3643	0.1558	0.0339
1.948	3.475	Max.	-0.5362	-0.0924	0.0196
		Min.	-0.9129	-0.2651	-0.0167
		Dif.	0.3767	0.1727	0.0363
1.948	3.725	Max.	-0.5746	-0.0372	0.0175
		Min.	-0.9507	-0.2131	-0.0196
		Dif.	0.3761	0.1760	0.0371



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.948	3.975	Max.	-0.6034	0.0105	0.0154
		Min.	-0.9727	-0.1554	-0.0225
		Dif.	0.3693	0.1658	0.0379
1.948	4.225	Max.	-0.6143	0.0637	0.0133
		Min.	-0.9819	-0.0762	-0.0255
		Dif.	0.3677	0.1399	0.0388
1.948	4.475	Max.	-0.6023	0.1331	0.0059
		Min.	-0.9799	-0.0096	-0.0291
		Dif.	0.3776	0.1427	0.0350
1.948	4.725	Max.	-0.5712	0.1984	0.0001
		Min.	-0.9654	0.0388	-0.0342
		Dif.	0.3942	0.1596	0.0343
1.948	4.975	Max.	-0.5314	0.2611	-0.0044
		Min.	-0.9304	0.0991	-0.0406
		Dif.	0.3990	0.1620	0.0361
1.948	5.225	Max.	-0.4840	0.3136	-0.0082
		Min.	-0.8730	0.1620	-0.0482
		Dif.	0.3889	0.1516	0.0400
1.948	5.475	Max.	-0.4310	0.3516	-0.0098
		Min.	-0.7944	0.2076	-0.0582
		Dif.	0.3634	0.1440	0.0484
1.948	5.725	Max.	-0.3773	0.4195	-0.0112
		Min.	-0.6985	0.2144	-0.0682
		Dif.	0.3212	0.2051	0.0570
1.948	5.975	Max.	-0.3246	0.4916	-0.0153
		Min.	-0.5844	0.2033	-0.0731
		Dif.	0.2598	0.2883	0.0578
1.948	6.225	Max.	-0.2732	0.5356	-0.0164
		Min.	-0.4553	0.1872	-0.0803
		Dif.	0.1821	0.3484	0.0639
1.948	6.475	Max.	-0.2238	0.5628	-0.0175
		Min.	-0.3233	0.1623	-0.0876
		Dif.	0.0995	0.4005	0.0700
1.948	6.725	Max.	-0.1313	0.5743	-0.0310
		Min.	-0.2345	0.1319	-0.0845
		Dif.	0.1032	0.4424	0.0536
1.948	6.750	Max.	-0.1216	0.5696	-0.0340
		Min.	-0.2240	0.1125	-0.0761
		Dif.	0.1024	0.4571	0.0420
2.197	0.001	Max.	-0.3265	0.4734	-0.0265
		Min.	-1.0825	0.0971	-0.0820
		Dif.	0.7560	0.3763	0.0555
2.197	0.225	Max.	-0.3047	0.4725	-0.0265
		Min.	-0.9762	0.0965	-0.0820
		Dif.	0.6715	0.3759	0.0555
2.197	0.475	Max.	-0.2801	0.4684	-0.0357
		Min.	-0.8592	0.0918	-0.0928
		Dif.	0.5791	0.3767	0.0571
2.197	0.725	Max.	-0.2618	0.4520	-0.0412
		Min.	-0.7501	0.0726	-0.1024
		Dif.	0.4883	0.3793	0.0612
2.197	0.975	Max.	-0.2470	0.3547	-0.0647
		Min.	-0.6272	0.0164	-0.1338
		Dif.	0.3803	0.3383	0.0691
2.197	1.225	Max.	-0.2428	0.2906	-0.0682
		Min.	-0.5374	-0.0260	-0.1454
		Dif.	0.2946	0.3166	0.0772



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.197	1.475	Max.	-0.2523	0.2025	-0.0673
		Min.	-0.4756	-0.0790	-0.1415
		Dif.	0.2233	0.2816	0.0742
2.197	1.690	Max.	-0.2673	0.0516	-0.0724
		Min.	-0.4388	-0.2282	-0.1374
		Dif.	0.1716	0.2798	0.0650
2.197	1.990	Max.	-0.3040	0.0469	-0.0724
		Min.	-0.4547	-0.2233	-0.1374
		Dif.	0.1507	0.2702	0.0650
2.197	2.225	Max.	-0.3258	-0.0646	-0.0455
		Min.	-0.5208	-0.3326	-0.0988
		Dif.	0.1950	0.2679	0.0533
2.197	2.475	Max.	-0.3551	-0.1219	-0.0389
		Min.	-0.6045	-0.3598	-0.0799
		Dif.	0.2495	0.2379	0.0410
2.197	2.725	Max.	-0.3910	-0.1565	-0.0372
		Min.	-0.6955	-0.3560	-0.0678
		Dif.	0.3044	0.1995	0.0306
2.197	2.975	Max.	-0.4347	-0.1757	-0.0404
		Min.	-0.7771	-0.3212	-0.0624
		Dif.	0.3424	0.1455	0.0220
2.197	3.225	Max.	-0.4858	-0.1428	-0.0406
		Min.	-0.8501	-0.3006	-0.0578
		Dif.	0.3643	0.1578	0.0172
2.197	3.475	Max.	-0.5310	-0.0916	-0.0421
		Min.	-0.9060	-0.2644	-0.0542
		Dif.	0.3750	0.1728	0.0121
2.197	3.725	Max.	-0.5682	-0.0365	-0.0447
		Min.	-0.9450	-0.2122	-0.0566
		Dif.	0.3768	0.1757	0.0120
2.197	3.975	Max.	-0.5952	0.0127	-0.0480
		Min.	-0.9645	-0.1506	-0.0613
		Dif.	0.3693	0.1633	0.0133
2.197	4.225	Max.	-0.6050	0.0665	-0.0508
		Min.	-0.9748	-0.0720	-0.0635
		Dif.	0.3698	0.1385	0.0127
2.197	4.475	Max.	-0.5917	0.1375	-0.0535
		Min.	-0.9741	-0.0071	-0.0718
		Dif.	0.3823	0.1445	0.0183
2.197	4.725	Max.	-0.5590	0.2041	-0.0550
		Min.	-0.9530	0.0430	-0.0792
		Dif.	0.3939	0.1612	0.0242
2.197	4.975	Max.	-0.5193	0.2669	-0.0570
		Min.	-0.9181	0.1031	-0.0882
		Dif.	0.3988	0.1639	0.0312
2.197	5.225	Max.	-0.4718	0.3196	-0.0554
		Min.	-0.8606	0.1658	-0.1015
		Dif.	0.3888	0.1538	0.0461
2.197	5.475	Max.	-0.4189	0.3590	-0.0544
		Min.	-0.7738	0.2046	-0.1082
		Dif.	0.3549	0.1545	0.0538
2.197	5.725	Max.	-0.3629	0.4264	-0.0517
		Min.	-0.6801	0.2120	-0.1225
		Dif.	0.3172	0.2144	0.0707
2.197	5.975	Max.	-0.3095	0.4987	-0.0529
		Min.	-0.5669	0.2006	-0.1297
		Dif.	0.2575	0.2982	0.0769



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.197	6.225	Max.	-0.2579	0.5338	-0.0422
		Min.	-0.4351	0.1808	-0.1109
		Dif.	0.1772	0.3530	0.0687
2.197	6.475	Max.	-0.2047	0.5614	-0.0433
		Min.	-0.3069	0.1558	-0.1182
		Dif.	0.1022	0.4056	0.0749
2.197	6.725	Max.	-0.1135	0.5675	-0.0480
		Min.	-0.2177	0.1408	-0.1006
		Dif.	0.1042	0.4266	0.0526
2.197	6.750	Max.	-0.1020	0.5579	-0.0515
		Min.	-0.2080	0.1282	-0.0870
		Dif.	0.1060	0.4297	0.0355
2.447	0.001	Max.	-0.3161	0.4884	-0.0632
		Min.	-1.0604	0.1079	-0.1358
		Dif.	0.7442	0.3805	0.0726
2.447	0.225	Max.	-0.2919	0.4874	-0.0632
		Min.	-0.9507	0.1073	-0.1358
		Dif.	0.6588	0.3802	0.0726
2.447	0.475	Max.	-0.2646	0.4841	-0.0729
		Min.	-0.8298	0.1036	-0.1474
		Dif.	0.5653	0.3806	0.0746
2.447	0.725	Max.	-0.2442	0.4637	-0.0890
		Min.	-0.7005	0.0946	-0.1624
		Dif.	0.4562	0.3691	0.0734
2.447	0.975	Max.	-0.2308	0.3762	-0.0985
		Min.	-0.5933	0.0347	-0.1808
		Dif.	0.3625	0.3415	0.0824
2.447	1.225	Max.	-0.2177	0.2943	-0.1131
		Min.	-0.4952	-0.0175	-0.1971
		Dif.	0.2776	0.3117	0.0839
2.447	1.475	Max.	-0.2281	0.1895	-0.1142
		Min.	-0.4326	-0.0810	-0.2001
		Dif.	0.2045	0.2705	0.0859
2.447	1.690	Max.	-0.2486	0.0509	-0.0724
		Min.	-0.4051	-0.2274	-0.1374
		Dif.	0.1565	0.2783	0.0650
2.447	1.990	Max.	-0.2849	0.0469	-0.0724
		Min.	-0.4214	-0.2233	-0.1374
		Dif.	0.1365	0.2702	0.0650
2.447	2.225	Max.	-0.3072	-0.0769	-0.0796
		Min.	-0.4918	-0.3472	-0.1431
		Dif.	0.1846	0.2703	0.0636
2.447	2.475	Max.	-0.3358	-0.1328	-0.0720
		Min.	-0.5831	-0.3713	-0.1249
		Dif.	0.2473	0.2385	0.0528
2.447	2.725	Max.	-0.3740	-0.1625	-0.0668
		Min.	-0.6762	-0.3622	-0.1098
		Dif.	0.3022	0.1996	0.0431
2.447	2.975	Max.	-0.4223	-0.1765	-0.0712
		Min.	-0.7604	-0.3199	-0.1129
		Dif.	0.3381	0.1434	0.0416
2.447	3.225	Max.	-0.4685	-0.1420	-0.0740
		Min.	-0.8318	-0.3056	-0.1044
		Dif.	0.3634	0.1636	0.0304
2.447	3.475	Max.	-0.5151	-0.0898	-0.0675
		Min.	-0.8867	-0.2646	-0.0947
		Dif.	0.3716	0.1748	0.0271



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.447	3.725	Max.	-0.5520	-0.0342	-0.0715
		Min.	-0.9242	-0.2080	-0.1014
		Dif.	0.3722	0.1738	0.0299
2.447	3.975	Max.	-0.5797	0.0173	-0.0771
		Min.	-0.9448	-0.1465	-0.1067
		Dif.	0.3652	0.1638	0.0296
2.447	4.225	Max.	-0.5873	0.0696	-0.0745
		Min.	-0.9525	-0.0681	-0.1025
		Dif.	0.3652	0.1377	0.0280
2.447	4.475	Max.	-0.5710	0.1423	-0.0765
		Min.	-0.9485	-0.0036	-0.1079
		Dif.	0.3775	0.1459	0.0314
2.447	4.725	Max.	-0.5400	0.2111	-0.0790
		Min.	-0.9319	0.0485	-0.1203
		Dif.	0.3919	0.1626	0.0413
2.447	4.975	Max.	-0.4989	0.2729	-0.0787
		Min.	-0.8910	0.1070	-0.1232
		Dif.	0.3922	0.1659	0.0444
2.447	5.225	Max.	-0.4494	0.3265	-0.0803
		Min.	-0.8264	0.1659	-0.1252
		Dif.	0.3770	0.1605	0.0450
2.447	5.475	Max.	-0.3953	0.3736	-0.0788
		Min.	-0.7479	0.2055	-0.1396
		Dif.	0.3526	0.1681	0.0609
2.447	5.725	Max.	-0.3378	0.4332	-0.0764
		Min.	-0.6512	0.2095	-0.1483
		Dif.	0.3133	0.2237	0.0719
2.447	5.975	Max.	-0.2839	0.4862	-0.0779
		Min.	-0.5355	0.1963	-0.1410
		Dif.	0.2517	0.2898	0.0631
2.447	6.225	Max.	-0.2324	0.5349	-0.0747
		Min.	-0.4056	0.1714	-0.1381
		Dif.	0.1733	0.3635	0.0634
2.447	6.475	Max.	-0.1792	0.5517	-0.0620
		Min.	-0.2867	0.1489	-0.1311
		Dif.	0.1075	0.4028	0.0691
2.447	6.725	Max.	-0.0951	0.5553	-0.0598
		Min.	-0.1961	0.1333	-0.1092
		Dif.	0.1010	0.4220	0.0495
2.447	6.750	Max.	-0.0877	0.5579	-0.0515
		Min.	-0.1877	0.1282	-0.0870
		Dif.	0.1000	0.4297	0.0355
2.697	0.001	Max.	-0.3088	0.4974	-0.0904
		Min.	-1.0145	0.1250	-0.1763
		Dif.	0.7057	0.3725	0.0860
2.697	0.225	Max.	-0.2806	0.4966	-0.0904
		Min.	-0.9029	0.1243	-0.1763
		Dif.	0.6223	0.3722	0.0860
2.697	0.475	Max.	-0.2494	0.4907	-0.1038
		Min.	-0.7787	0.1182	-0.1884
		Dif.	0.5293	0.3725	0.0846
2.697	0.725	Max.	-0.2209	0.4747	-0.1200
		Min.	-0.6575	0.1048	-0.2031
		Dif.	0.4365	0.3699	0.0832
2.697	0.975	Max.	-0.1960	0.4315	-0.1353
		Min.	-0.5406	0.0759	-0.2187
		Dif.	0.3446	0.3555	0.0834



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.697	1.225	Max.	-0.1829	0.3494	-0.1500
		Min.	-0.4425	0.0238	-0.2349
		Dif.	0.2596	0.3256	0.0849
2.697	1.475	Max.	-0.1886	0.1991	-0.1575
		Min.	-0.3741	-0.0698	-0.2436
		Dif.	0.1855	0.2690	0.0861
2.697	1.690	Max.	-0.2056	0.0141	-0.1414
		Min.	-0.3351	-0.2843	-0.2040
		Dif.	0.1295	0.2984	0.0626
2.697	1.990	Max.	-0.2513	0.0114	-0.1414
		Min.	-0.3702	-0.2816	-0.2040
		Dif.	0.1189	0.2930	0.0626
2.697	2.225	Max.	-0.2761	-0.0983	-0.1122
		Min.	-0.4560	-0.3766	-0.1779
		Dif.	0.1799	0.2784	0.0657
2.697	2.475	Max.	-0.3080	-0.1485	-0.0977
		Min.	-0.5539	-0.3861	-0.1553
		Dif.	0.2459	0.2376	0.0576
2.697	2.725	Max.	-0.3502	-0.1804	-0.0895
		Min.	-0.6492	-0.3560	-0.1361
		Dif.	0.2990	0.1756	0.0466
2.697	2.975	Max.	-0.3985	-0.1814	-0.0940
		Min.	-0.7334	-0.3267	-0.1392
		Dif.	0.3350	0.1453	0.0452
2.697	3.225	Max.	-0.4473	-0.1402	-0.0926
		Min.	-0.8056	-0.3058	-0.1363
		Dif.	0.3582	0.1656	0.0436
2.697	3.475	Max.	-0.4941	-0.0880	-0.0863
		Min.	-0.8605	-0.2648	-0.1265
		Dif.	0.3664	0.1768	0.0402
2.697	3.725	Max.	-0.5320	-0.0324	-0.0903
		Min.	-0.8968	-0.2082	-0.1332
		Dif.	0.3648	0.1758	0.0429
2.697	3.975	Max.	-0.5591	0.0204	-0.0905
		Min.	-0.9155	-0.1426	-0.1335
		Dif.	0.3564	0.1630	0.0430
2.697	4.225	Max.	-0.5667	0.0727	-0.0886
		Min.	-0.9232	-0.0643	-0.1288
		Dif.	0.3564	0.1369	0.0402
2.697	4.475	Max.	-0.5493	0.1468	-0.0906
		Min.	-0.9202	-0.0011	-0.1341
		Dif.	0.3709	0.1479	0.0435
2.697	4.725	Max.	-0.5168	0.2169	-0.0916
		Min.	-0.9003	0.0525	-0.1365
		Dif.	0.3835	0.1644	0.0449
2.697	4.975	Max.	-0.4756	0.2788	-0.0910
		Min.	-0.8594	0.1108	-0.1396
		Dif.	0.3838	0.1680	0.0486
2.697	5.225	Max.	-0.4247	0.3343	-0.0926
		Min.	-0.7962	0.1680	-0.1417
		Dif.	0.3715	0.1663	0.0492
2.697	5.475	Max.	-0.3684	0.3810	-0.0929
		Min.	-0.7154	0.2024	-0.1458
		Dif.	0.3471	0.1786	0.0529
2.697	5.725	Max.	-0.3121	0.4393	-0.0911
		Min.	-0.6175	0.2079	-0.1538
		Dif.	0.3053	0.2314	0.0627



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.697	5.975	Max.	-0.2566	0.4927	-0.0893
		Min.	-0.5033	0.1941	-0.1500
		Dif.	0.2467	0.2986	0.0606
2.697	6.225	Max.	-0.2080	0.5181	-0.0849
		Min.	-0.3781	0.1730	-0.1437
		Dif.	0.1701	0.3451	0.0588
2.697	6.475	Max.	-0.1530	0.5359	-0.0754
		Min.	-0.2612	0.1495	-0.1335
		Dif.	0.1082	0.3864	0.0581
2.697	6.725	Max.	-0.0742	0.5429	-0.0637
		Min.	-0.1700	0.1226	-0.1024
		Dif.	0.0958	0.4203	0.0387
2.697	6.750	Max.	-0.0641	0.5321	-0.0345
		Min.	-0.1586	0.1038	-0.0816
		Dif.	0.0945	0.4283	0.0471
2.947	0.001	Max.	-0.2863	0.5050	-0.1056
		Min.	-0.9694	0.1362	-0.2002
		Dif.	0.6832	0.3688	0.0946
2.947	0.225	Max.	-0.2556	0.5041	-0.1056
		Min.	-0.8562	0.1355	-0.2002
		Dif.	0.6005	0.3685	0.0946
2.947	0.475	Max.	-0.2216	0.5007	-0.1137
		Min.	-0.7301	0.1327	-0.2044
		Dif.	0.5086	0.3680	0.0908
2.947	0.725	Max.	-0.1932	0.4846	-0.1298
		Min.	-0.6089	0.1193	-0.2191
		Dif.	0.4158	0.3653	0.0893
2.947	0.975	Max.	-0.1515	0.3934	-0.1598
		Min.	-0.4765	0.0606	-0.2387
		Dif.	0.3250	0.3328	0.0788
2.947	1.225	Max.	-0.1384	0.3112	-0.1756
		Min.	-0.3784	0.0086	-0.2538
		Dif.	0.2400	0.3027	0.0781
2.947	1.475	Max.	-0.1434	0.1873	-0.1829
		Min.	-0.3114	-0.0723	-0.2593
		Dif.	0.1681	0.2596	0.0765
2.947	1.690	Max.	-0.1689	0.0135	-0.1414
		Min.	-0.2853	-0.2837	-0.2040
		Dif.	0.1164	0.2972	0.0626
2.947	1.990	Max.	-0.2148	0.0114	-0.1414
		Min.	-0.3203	-0.2816	-0.2040
		Dif.	0.1055	0.2930	0.0626
2.947	2.225	Max.	-0.2382	-0.1097	-0.1271
		Min.	-0.4163	-0.4042	-0.1844
		Dif.	0.1781	0.2945	0.0573
2.947	2.475	Max.	-0.2749	-0.1632	-0.1141
		Min.	-0.5187	-0.3994	-0.1657
		Dif.	0.2438	0.2363	0.0515
2.947	2.725	Max.	-0.3204	-0.1903	-0.1063
		Min.	-0.6158	-0.3645	-0.1524
		Dif.	0.2954	0.1742	0.0460
2.947	2.975	Max.	-0.3704	-0.1839	-0.1008
		Min.	-0.7009	-0.3312	-0.1433
		Dif.	0.3305	0.1473	0.0425
2.947	3.225	Max.	-0.4205	-0.1411	-0.0960
		Min.	-0.7729	-0.3084	-0.1392
		Dif.	0.3524	0.1673	0.0432



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.947	3.475	Max.	-0.4681	-0.0889	-0.0926
		Min.	-0.8276	-0.2671	-0.1364
		Dif.	0.3595	0.1782	0.0438
2.947	3.725	Max.	-0.5084	-0.0341	-0.0892
		Min.	-0.8625	-0.2100	-0.1323
		Dif.	0.3540	0.1759	0.0431
2.947	3.975	Max.	-0.5354	0.0194	-0.0867
		Min.	-0.8818	-0.1427	-0.1294
		Dif.	0.3464	0.1620	0.0427
2.947	4.225	Max.	-0.5436	0.0720	-0.0854
		Min.	-0.8885	-0.0637	-0.1277
		Dif.	0.3448	0.1357	0.0423
2.947	4.475	Max.	-0.5257	0.1474	-0.0838
		Min.	-0.8869	-0.0040	-0.1243
		Dif.	0.3611	0.1514	0.0405
2.947	4.725	Max.	-0.4930	0.2185	-0.0837
		Min.	-0.8671	0.0527	-0.1220
		Dif.	0.3740	0.1658	0.0383
2.947	4.975	Max.	-0.4509	0.2820	-0.0846
		Min.	-0.8255	0.1110	-0.1224
		Dif.	0.3746	0.1710	0.0378
2.947	5.225	Max.	-0.3991	0.3338	-0.0832
		Min.	-0.7635	0.1682	-0.1226
		Dif.	0.3644	0.1656	0.0394
2.947	5.475	Max.	-0.3419	0.3811	-0.0798
		Min.	-0.6827	0.2066	-0.1279
		Dif.	0.3408	0.1745	0.0482
2.947	5.725	Max.	-0.2840	0.4380	-0.0757
		Min.	-0.5841	0.2117	-0.1370
		Dif.	0.3001	0.2263	0.0613
2.947	5.975	Max.	-0.2282	0.4881	-0.0702
		Min.	-0.4710	0.1936	-0.1429
		Dif.	0.2428	0.2945	0.0727
2.947	6.225	Max.	-0.1810	0.5137	-0.0673
		Min.	-0.3463	0.1637	-0.1417
		Dif.	0.1653	0.3500	0.0744
2.947	6.475	Max.	-0.1296	0.5196	-0.0647
		Min.	-0.2314	0.1288	-0.1262
		Dif.	0.1019	0.3908	0.0615
2.947	6.725	Max.	-0.0595	0.5221	-0.0489
		Min.	-0.1448	0.0994	-0.1014
		Dif.	0.0853	0.4227	0.0525
2.947	6.750	Max.	-0.0550	0.5318	-0.0345
		Min.	-0.1388	0.1040	-0.0816
		Dif.	0.0838	0.4278	0.0471
3.197	0.001	Max.	-0.2601	0.5083	-0.1146
		Min.	-0.9186	0.1451	-0.2144
		Dif.	0.6585	0.3633	0.0998
3.197	0.225	Max.	-0.2274	0.5074	-0.1146
		Min.	-0.8045	0.1444	-0.2144
		Dif.	0.5771	0.3630	0.0998
3.197	0.475	Max.	-0.1910	0.5056	-0.1212
		Min.	-0.6774	0.1434	-0.2158
		Dif.	0.4864	0.3621	0.0946
3.197	0.725	Max.	-0.1527	0.4992	-0.1237
		Min.	-0.5509	0.1411	-0.2070
		Dif.	0.3982	0.3581	0.0834



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.197	0.975	Max.	-0.1192	0.4124	-0.1569
		Min.	-0.4219	0.0842	-0.2319
		Dif.	0.3027	0.3282	0.0751
3.197	1.225	Max.	-0.0944	0.3259	-0.1593
		Min.	-0.3173	0.0287	-0.2231
		Dif.	0.2229	0.2972	0.0638
3.197	1.475	Max.	-0.0913	0.2170	-0.1732
		Min.	-0.2425	-0.0434	-0.2319
		Dif.	0.1512	0.2603	0.0587
3.197	1.690	Max.	-0.0951	-0.0696	-0.1176
		Min.	-0.1885	-0.4491	-0.1915
		Dif.	0.0934	0.3795	0.0739
3.197	1.990	Max.	-0.1690	-0.0709	-0.1176
		Min.	-0.2701	-0.4479	-0.1915
		Dif.	0.1011	0.3771	0.0739
3.197	2.225	Max.	-0.2004	-0.1350	-0.1322
		Min.	-0.3753	-0.4315	-0.1709
		Dif.	0.1750	0.2965	0.0388
3.197	2.475	Max.	-0.2412	-0.1749	-0.1227
		Min.	-0.4820	-0.4086	-0.1523
		Dif.	0.2409	0.2337	0.0296
3.197	2.725	Max.	-0.2898	-0.1989	-0.1092
		Min.	-0.5810	-0.3701	-0.1400
		Dif.	0.2911	0.1712	0.0307
3.197	2.975	Max.	-0.3427	-0.1896	-0.0963
		Min.	-0.6679	-0.3355	-0.1290
		Dif.	0.3252	0.1459	0.0327
3.197	3.225	Max.	-0.3948	-0.1448	-0.0860
		Min.	-0.7409	-0.3109	-0.1197
		Dif.	0.3462	0.1661	0.0337
3.197	3.475	Max.	-0.4437	-0.0932	-0.0777
		Min.	-0.7965	-0.2696	-0.1114
		Dif.	0.3528	0.1763	0.0337
3.197	3.725	Max.	-0.4857	-0.0393	-0.0702
		Min.	-0.8327	-0.2127	-0.1024
		Dif.	0.3471	0.1734	0.0322
3.197	3.975	Max.	-0.5145	0.0145	-0.0640
		Min.	-0.8524	-0.1439	-0.0944
		Dif.	0.3379	0.1584	0.0304
3.197	4.225	Max.	-0.5241	0.0669	-0.0593
		Min.	-0.8593	-0.0653	-0.0875
		Dif.	0.3352	0.1322	0.0282
3.197	4.475	Max.	-0.5065	0.1415	-0.0555
		Min.	-0.8594	-0.0060	-0.0799
		Dif.	0.3529	0.1475	0.0244
3.197	4.725	Max.	-0.4742	0.2143	-0.0531
		Min.	-0.8406	0.0511	-0.0732
		Dif.	0.3665	0.1632	0.0202
3.197	4.975	Max.	-0.4318	0.2784	-0.0500
		Min.	-0.7998	0.1088	-0.0696
		Dif.	0.3679	0.1696	0.0196
3.197	5.225	Max.	-0.3802	0.3301	-0.0442
		Min.	-0.7384	0.1652	-0.0697
		Dif.	0.3582	0.1649	0.0255
3.197	5.475	Max.	-0.3225	0.3715	-0.0343
		Min.	-0.6580	0.2115	-0.0761
		Dif.	0.3355	0.1599	0.0418



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.197	5.725	Max.	-0.2624	0.4286	-0.0227
		Min.	-0.5607	0.2164	-0.0871
		Dif.	0.2984	0.2122	0.0644
3.197	5.975	Max.	-0.2069	0.4778	-0.0085
		Min.	-0.4464	0.1969	-0.1024
		Dif.	0.2395	0.2809	0.0939
3.197	6.225	Max.	-0.1589	0.5059	0.0091
		Min.	-0.3217	0.1579	-0.1227
		Dif.	0.1628	0.3480	0.1319
3.197	6.475	Max.	-0.1180	0.5093	0.0309
		Min.	-0.1987	0.1098	-0.1392
		Dif.	0.0807	0.3995	0.1701
3.197	6.725	Max.	-0.0488	0.5044	0.0338
		Min.	-0.1188	0.0844	-0.1114
		Dif.	0.0700	0.4200	0.1452
3.197	6.750	Max.	-0.0444	0.4936	0.0374
		Min.	-0.1086	0.0793	-0.0462
		Dif.	0.0642	0.4143	0.0837
3.200	2.225	Max.	-0.1980	-0.1275	-0.1224
		Min.	-0.3751	-0.4332	-0.1713
		Dif.	0.1770	0.3057	0.0489
3.200	2.475	Max.	-0.2385	-0.1675	-0.1141
		Min.	-0.4827	-0.4082	-0.1495
		Dif.	0.2443	0.2406	0.0354
3.200	2.725	Max.	-0.2881	-0.1928	-0.1002
		Min.	-0.5802	-0.3677	-0.1311
		Dif.	0.2921	0.1749	0.0309
3.200	2.975	Max.	-0.3412	-0.1913	-0.0853
		Min.	-0.6664	-0.3260	-0.1147
		Dif.	0.3252	0.1347	0.0294
3.200	3.225	Max.	-0.3932	-0.1469	-0.0727
		Min.	-0.7389	-0.3019	-0.0996
		Dif.	0.3457	0.1550	0.0269
3.200	3.475	Max.	-0.4419	-0.0965	-0.0619
		Min.	-0.7940	-0.2621	-0.0859
		Dif.	0.3522	0.1656	0.0239
3.200	3.725	Max.	-0.4838	-0.0441	-0.0520
		Min.	-0.8300	-0.2071	-0.0736
		Dif.	0.3462	0.1630	0.0216
3.200	3.975	Max.	-0.5126	0.0086	-0.0436
		Min.	-0.8494	-0.1399	-0.0624
		Dif.	0.3368	0.1484	0.0188
3.200	4.225	Max.	-0.5220	0.0595	-0.0368
		Min.	-0.8560	-0.0634	-0.0522
		Dif.	0.3340	0.1229	0.0154
3.200	4.475	Max.	-0.5043	0.1320	-0.0306
		Min.	-0.8560	-0.0058	-0.0431
		Dif.	0.3518	0.1377	0.0124
3.200	4.725	Max.	-0.4718	0.2043	-0.0244
		Min.	-0.8372	0.0486	-0.0362
		Dif.	0.3654	0.1557	0.0118
3.200	4.975	Max.	-0.4293	0.2655	-0.0177
		Min.	-0.7962	0.1055	-0.0318
		Dif.	0.3669	0.1600	0.0142
3.200	5.225	Max.	-0.3774	0.3146	-0.0089
		Min.	-0.7348	0.1604	-0.0311
		Dif.	0.3574	0.1542	0.0221



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.200	5.475	Max.	-0.3195	0.3522	0.0016
		Min.	-0.6544	0.2067	-0.0337
		Dif.	0.3349	0.1455	0.0353
3.200	5.725	Max.	-0.2597	0.4097	0.0165
		Min.	-0.5562	0.2075	-0.0427
		Dif.	0.2965	0.2022	0.0592
3.200	5.975	Max.	-0.2033	0.4569	0.0364
		Min.	-0.4423	0.1860	-0.0588
		Dif.	0.2390	0.2709	0.0952
3.200	6.225	Max.	-0.1540	0.4889	0.0706
		Min.	-0.3174	0.1405	-0.0929
		Dif.	0.1634	0.3484	0.1636
3.200	6.475	Max.	-0.1064	0.4994	0.1434
		Min.	-0.1998	0.0847	-0.1640
		Dif.	0.0934	0.4147	0.3074
3.200	6.725	Max.	-0.0382	0.4994	0.1421
		Min.	-0.1222	0.0847	-0.1627
		Dif.	0.0840	0.4147	0.3048
3.447	0.001	Max.	-0.2314	0.5059	-0.1164
		Min.	-0.8640	0.1503	-0.2180
		Dif.	0.6326	0.3556	0.1016
3.447	0.225	Max.	-0.1976	0.5050	-0.1164
		Min.	-0.7505	0.1497	-0.2180
		Dif.	0.5529	0.3553	0.1016
3.447	0.475	Max.	-0.1595	0.5065	-0.1181
		Min.	-0.6235	0.1520	-0.2090
		Dif.	0.4640	0.3545	0.0910
3.447	0.725	Max.	-0.1211	0.5000	-0.1205
		Min.	-0.4969	0.1496	-0.2003
		Dif.	0.3758	0.3504	0.0797
3.447	0.975	Max.	-0.0801	0.4623	-0.1231
		Min.	-0.3762	0.1211	-0.1913
		Dif.	0.2961	0.3412	0.0682
3.447	1.225	Max.	-0.0567	0.3751	-0.1255
		Min.	-0.2702	0.0663	-0.1826
		Dif.	0.2135	0.3087	0.0571
3.447	1.475	Max.	-0.0518	0.2081	-0.1238
		Min.	-0.1917	-0.0385	-0.1690
		Dif.	0.1399	0.2466	0.0452
3.447	1.690	Max.	-0.0581	-0.0687	-0.1176
		Min.	-0.1484	-0.4501	-0.1915
		Dif.	0.0902	0.3815	0.0739
3.500	2.225	Max.	-0.1597	-0.1275	-0.1224
		Min.	-0.3253	-0.4332	-0.1713
		Dif.	0.1656	0.3057	0.0489
3.500	2.475	Max.	-0.2042	-0.1675	-0.1141
		Min.	-0.4379	-0.4082	-0.1495
		Dif.	0.2337	0.2406	0.0354
3.500	2.725	Max.	-0.2581	-0.1928	-0.1002
		Min.	-0.5409	-0.3677	-0.1311
		Dif.	0.2829	0.1749	0.0309
3.500	2.975	Max.	-0.3151	-0.1913	-0.0853
		Min.	-0.6324	-0.3260	-0.1147
		Dif.	0.3174	0.1347	0.0294
3.500	3.225	Max.	-0.3705	-0.1469	-0.0727
		Min.	-0.7099	-0.3019	-0.0996
		Dif.	0.3393	0.1550	0.0269



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.500	3.475	Max.	-0.4221	-0.0965	-0.0619
		Min.	-0.7694	-0.2621	-0.0859
		Dif.	0.3473	0.1656	0.0239
3.500	3.725	Max.	-0.4666	-0.0441	-0.0520
		Min.	-0.8096	-0.2071	-0.0736
		Dif.	0.3430	0.1630	0.0216
3.500	3.975	Max.	-0.4987	0.0086	-0.0436
		Min.	-0.8314	-0.1399	-0.0624
		Dif.	0.3327	0.1484	0.0188
3.500	4.225	Max.	-0.5109	0.0595	-0.0368
		Min.	-0.8404	-0.0634	-0.0522
		Dif.	0.3296	0.1229	0.0154
3.500	4.475	Max.	-0.4948	0.1318	-0.0306
		Min.	-0.8434	-0.0056	-0.0431
		Dif.	0.3486	0.1374	0.0124
3.500	4.725	Max.	-0.4639	0.2043	-0.0244
		Min.	-0.8269	0.0486	-0.0362
		Dif.	0.3629	0.1557	0.0118
3.500	4.975	Max.	-0.4225	0.2655	-0.0177
		Min.	-0.7881	0.1055	-0.0318
		Dif.	0.3657	0.1600	0.0142
3.500	5.225	Max.	-0.3725	0.3146	-0.0089
		Min.	-0.7279	0.1604	-0.0311
		Dif.	0.3554	0.1542	0.0221
3.500	5.475	Max.	-0.3164	0.3522	0.0016
		Min.	-0.6479	0.2067	-0.0337
		Dif.	0.3315	0.1455	0.0353
3.500	5.725	Max.	-0.2577	0.4095	0.0165
		Min.	-0.5503	0.2077	-0.0427
		Dif.	0.2925	0.2018	0.0592
3.500	5.975	Max.	-0.2000	0.4571	0.0364
		Min.	-0.4390	0.1858	-0.0588
		Dif.	0.2389	0.2713	0.0952
3.500	6.225	Max.	-0.1464	0.4901	0.0706
		Min.	-0.3188	0.1393	-0.0929
		Dif.	0.1724	0.3509	0.1636
3.500	6.475	Max.	-0.1006	0.4994	0.1421
		Min.	-0.2000	0.0847	-0.1627
		Dif.	0.0994	0.4147	0.3048
3.500	6.725	Max.	-0.0436	0.4994	0.1421
		Min.	-0.1108	0.0847	-0.1627
		Dif.	0.0672	0.4147	0.3048
3.697	0.001	Max.	-0.2010	0.4916	-0.1127
		Min.	-0.8066	0.1470	-0.2170
		Dif.	0.6056	0.3446	0.1043
3.697	0.225	Max.	-0.1679	0.4907	-0.1127
		Min.	-0.6962	0.1464	-0.2170
		Dif.	0.5283	0.3443	0.1043
3.697	0.475	Max.	-0.1310	0.4889	-0.1081
		Min.	-0.5734	0.1456	-0.2025
		Dif.	0.4424	0.3433	0.0944
3.697	0.725	Max.	-0.0927	0.4825	-0.1105
		Min.	-0.4468	0.1433	-0.1937
		Dif.	0.3542	0.3392	0.0831
3.697	0.975	Max.	-0.0527	0.3904	-0.0865
		Min.	-0.3346	0.0835	-0.1447
		Dif.	0.2819	0.3069	0.0583



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.697	1.225	Max.	-0.0292	0.3032	-0.0888
		Min.	-0.2287	0.0286	-0.1361
		Dif.	0.1994	0.2746	0.0473
3.697	1.475	Max.	-0.0286	0.1824	-0.0798
		Min.	-0.1614	-0.0476	-0.1098
		Dif.	0.1328	0.2300	0.0300
3.697	1.690	Max.	-0.0389	-0.0335	-0.0954
		Min.	-0.1303	-0.3473	-0.1313
		Dif.	0.0914	0.3138	0.0359
3.697	1.990	Max.	-0.0978	-0.0359	-0.0954
		Min.	-0.1854	-0.3448	-0.1314
		Dif.	0.0876	0.3089	0.0360
3.697	2.225	Max.	-0.1405	-0.1587	-0.0899
		Min.	-0.2918	-0.4559	-0.1405
		Dif.	0.1513	0.2972	0.0506
3.697	2.475	Max.	-0.1884	-0.2057	-0.0786
		Min.	-0.4084	-0.4499	-0.1287
		Dif.	0.2199	0.2443	0.0501
3.697	2.725	Max.	-0.2445	-0.2295	-0.0646
		Min.	-0.5186	-0.4144	-0.1058
		Dif.	0.2741	0.1849	0.0411
3.697	2.975	Max.	-0.3048	-0.2224	-0.0503
		Min.	-0.6163	-0.3730	-0.0794
		Dif.	0.3115	0.1506	0.0292
3.697	3.225	Max.	-0.3634	-0.1738	-0.0290
		Min.	-0.6992	-0.3448	-0.0608
		Dif.	0.3358	0.1709	0.0318
3.697	3.475	Max.	-0.4175	-0.1202	-0.0088
		Min.	-0.7640	-0.2989	-0.0438
		Dif.	0.3465	0.1788	0.0350
3.697	3.725	Max.	-0.4641	-0.0641	0.0084
		Min.	-0.8086	-0.2377	-0.0279
		Dif.	0.3446	0.1736	0.0363
3.697	3.975	Max.	-0.4988	-0.0079	0.0251
		Min.	-0.8339	-0.1646	-0.0151
		Dif.	0.3350	0.1567	0.0402
3.697	4.225	Max.	-0.5137	0.0466	0.0398
		Min.	-0.8454	-0.0824	-0.0032
		Dif.	0.3317	0.1290	0.0430
3.697	4.475	Max.	-0.4992	0.1196	0.0527
		Min.	-0.8512	-0.0163	0.0069
		Dif.	0.3520	0.1359	0.0458
3.697	4.725	Max.	-0.4702	0.1963	0.0653
		Min.	-0.8370	0.0416	0.0152
		Dif.	0.3668	0.1548	0.0501
3.697	4.975	Max.	-0.4305	0.2632	0.0779
		Min.	-0.8003	0.1009	0.0222
		Dif.	0.3698	0.1623	0.0556
3.697	5.225	Max.	-0.3823	0.3177	0.0902
		Min.	-0.7418	0.1584	0.0268
		Dif.	0.3595	0.1593	0.0634
3.697	5.475	Max.	-0.3280	0.3592	0.1018
		Min.	-0.6634	0.2083	0.0310
		Dif.	0.3354	0.1509	0.0707
3.697	5.725	Max.	-0.2704	0.4166	0.1149
		Min.	-0.5681	0.2173	0.0326
		Dif.	0.2976	0.1993	0.0823



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.697	5.975	Max.	-0.2135	0.4700	0.1239
		Min.	-0.4588	0.1999	0.0341
		Dif.	0.2453	0.2700	0.0899
3.697	6.225	Max.	-0.1614	0.5053	0.1249
		Min.	-0.3401	0.1664	0.0370
		Dif.	0.1787	0.3389	0.0879
3.697	6.475	Max.	-0.1152	0.5185	0.1073
		Min.	-0.2190	0.1326	0.0404
		Dif.	0.1038	0.3859	0.0669
3.697	6.725	Max.	-0.0545	0.5184	0.0758
		Min.	-0.1182	0.1084	0.0201
		Dif.	0.0637	0.4100	0.0558
3.697	6.750	Max.	-0.0455	0.4928	0.0374
		Min.	-0.1030	0.0801	-0.0462
		Dif.	0.0576	0.4127	0.0837
3.947	0.001	Max.	-0.1704	0.4722	-0.1069
		Min.	-0.7484	0.1393	-0.2129
		Dif.	0.5780	0.3329	0.1061
3.947	0.225	Max.	-0.1391	0.4713	-0.1069
		Min.	-0.6424	0.1387	-0.2129
		Dif.	0.5033	0.3326	0.1061
3.947	0.475	Max.	-0.1042	0.4679	-0.1000
		Min.	-0.5244	0.1369	-0.1958
		Dif.	0.4203	0.3310	0.0957
3.947	0.725	Max.	-0.0734	0.4523	-0.0857
		Min.	-0.4154	0.1289	-0.1677
		Dif.	0.3420	0.3234	0.0820
3.947	0.975	Max.	-0.0277	0.3617	-0.0684
		Min.	-0.2877	0.0689	-0.1238
		Dif.	0.2600	0.2928	0.0554
3.947	1.225	Max.	-0.0115	0.2783	-0.0539
		Min.	-0.2012	0.0178	-0.0957
		Dif.	0.1897	0.2604	0.0418
3.947	1.475	Max.	-0.0130	0.1632	-0.0511
		Min.	-0.1416	-0.0545	-0.0803
		Dif.	0.1285	0.2177	0.0293
3.947	1.690	Max.	-0.0262	-0.0240	-0.0702
		Min.	-0.1150	-0.2972	-0.0828
		Dif.	0.0888	0.2732	0.0126
3.947	1.990	Max.	-0.0777	-0.0261	-0.0702
		Min.	-0.1596	-0.2951	-0.0828
		Dif.	0.0819	0.2690	0.0126
3.947	2.225	Max.	-0.1214	-0.1670	-0.0647
		Min.	-0.2610	-0.4503	-0.0986
		Dif.	0.1396	0.2832	0.0340
3.947	2.475	Max.	-0.1717	-0.2190	-0.0566
		Min.	-0.3793	-0.4657	-0.0971
		Dif.	0.2076	0.2467	0.0404
3.947	2.725	Max.	-0.2312	-0.2450	-0.0454
		Min.	-0.4948	-0.4387	-0.0816
		Dif.	0.2636	0.1936	0.0362
3.947	2.975	Max.	-0.2950	-0.2413	-0.0283
		Min.	-0.5991	-0.3965	-0.0645
		Dif.	0.3041	0.1551	0.0363
3.947	3.225	Max.	-0.3571	-0.1934	-0.0071
		Min.	-0.6888	-0.3669	-0.0477
		Dif.	0.3317	0.1735	0.0406



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.947	3.475	Max.	-0.4144	-0.1391	0.0138
		Min.	-0.7603	-0.3189	-0.0298
		Dif.	0.3460	0.1798	0.0437
3.947	3.725	Max.	-0.4638	-0.0810	0.0317
		Min.	-0.8110	-0.2544	-0.0131
		Dif.	0.3473	0.1733	0.0447
3.947	3.975	Max.	-0.5022	-0.0236	0.0495
		Min.	-0.8404	-0.1792	0.0005
		Dif.	0.3382	0.1556	0.0490
3.947	4.225	Max.	-0.5206	0.0318	0.0664
		Min.	-0.8558	-0.0947	0.0134
		Dif.	0.3352	0.1265	0.0530
3.947	4.475	Max.	-0.5090	0.1036	0.0814
		Min.	-0.8649	-0.0228	0.0237
		Dif.	0.3559	0.1265	0.0577
3.947	4.725	Max.	-0.4829	0.1817	0.0964
		Min.	-0.8533	0.0353	0.0319
		Dif.	0.3704	0.1464	0.0645
3.947	4.975	Max.	-0.4462	0.2498	0.1108
		Min.	-0.8194	0.0957	0.0402
		Dif.	0.3732	0.1541	0.0706
3.947	5.225	Max.	-0.3999	0.3095	0.1236
		Min.	-0.7634	0.1520	0.0461
		Dif.	0.3634	0.1575	0.0774
3.947	5.475	Max.	-0.3479	0.3556	0.1357
		Min.	-0.6871	0.1985	0.0509
		Dif.	0.3392	0.1571	0.0849
3.947	5.725	Max.	-0.2924	0.4141	0.1459
		Min.	-0.5940	0.2106	0.0558
		Dif.	0.3016	0.2035	0.0901
3.947	5.975	Max.	-0.2368	0.4694	0.1491
		Min.	-0.4858	0.1991	0.0598
		Dif.	0.2490	0.2703	0.0894
3.947	6.225	Max.	-0.1847	0.5048	0.1430
		Min.	-0.3675	0.1763	0.0641
		Dif.	0.1827	0.3285	0.0789
3.947	6.475	Max.	-0.1358	0.5233	0.1266
		Min.	-0.2462	0.1488	0.0651
		Dif.	0.1104	0.3745	0.0615
3.947	6.725	Max.	-0.0726	0.5217	0.0909
		Min.	-0.1439	0.1235	0.0642
		Dif.	0.0713	0.3982	0.0267
3.947	6.750	Max.	-0.0670	0.5144	0.0582
		Min.	-0.1351	0.1156	0.0217
		Dif.	0.0681	0.3988	0.0365
4.197	0.001	Max.	-0.1405	0.4480	-0.0989
		Min.	-0.6908	0.1280	-0.2043
		Dif.	0.5503	0.3200	0.1053
4.197	0.225	Max.	-0.1118	0.4471	-0.0989
		Min.	-0.5903	0.1274	-0.2043
		Dif.	0.4785	0.3197	0.1053
4.197	0.475	Max.	-0.0796	0.4416	-0.0851
		Min.	-0.4782	0.1251	-0.1756
		Dif.	0.3986	0.3165	0.0905
4.197	0.725	Max.	-0.0488	0.4259	-0.0707
		Min.	-0.3691	0.1171	-0.1475
		Dif.	0.3203	0.3088	0.0767



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.197	0.975	Max.	-0.0203	0.3823	-0.0564
		Min.	-0.2643	0.0910	-0.1194
		Dif.	0.2440	0.2913	0.0630
4.197	1.225	Max.	-0.0034	0.2990	-0.0420
		Min.	-0.1786	0.0398	-0.0913
		Dif.	0.1752	0.2593	0.0492
4.197	1.475	Max.	-0.0047	0.1450	-0.0313
		Min.	-0.1228	-0.0546	-0.0671
		Dif.	0.1181	0.1996	0.0358
4.197	1.690	Max.	-0.0179	-0.0256	-0.0399
		Min.	-0.1017	-0.2738	-0.0640
		Dif.	0.0838	0.2482	0.0241
4.197	1.990	Max.	-0.0663	-0.0271	-0.0399
		Min.	-0.1429	-0.2723	-0.0640
		Dif.	0.0766	0.2452	0.0241
4.197	2.225	Max.	-0.1081	-0.1709	-0.0399
		Min.	-0.2410	-0.4390	-0.0701
		Dif.	0.1329	0.2681	0.0302
4.197	2.475	Max.	-0.1598	-0.2269	-0.0374
		Min.	-0.3585	-0.4711	-0.0716
		Dif.	0.1987	0.2442	0.0342
4.197	2.725	Max.	-0.2217	-0.2568	-0.0299
		Min.	-0.4772	-0.4521	-0.0622
		Dif.	0.2554	0.1953	0.0323
4.197	2.975	Max.	-0.2882	-0.2554	-0.0167
		Min.	-0.5860	-0.4139	-0.0543
		Dif.	0.2978	0.1585	0.0376
4.197	3.225	Max.	-0.3534	-0.2105	0.0008
		Min.	-0.6816	-0.3853	-0.0404
		Dif.	0.3282	0.1748	0.0412
4.197	3.475	Max.	-0.4140	-0.1583	0.0197
		Min.	-0.7598	-0.3377	-0.0232
		Dif.	0.3458	0.1795	0.0429
4.197	3.725	Max.	-0.4659	-0.0966	0.0367
		Min.	-0.8163	-0.2685	-0.0087
		Dif.	0.3504	0.1719	0.0455
4.197	3.975	Max.	-0.5072	-0.0389	0.0534
		Min.	-0.8504	-0.1923	0.0036
		Dif.	0.3432	0.1533	0.0499
4.197	4.225	Max.	-0.5303	0.0150	0.0674
		Min.	-0.8689	-0.1075	0.0145
		Dif.	0.3385	0.1225	0.0530
4.197	4.475	Max.	-0.5217	0.0869	0.0854
		Min.	-0.8813	-0.0281	0.0260
		Dif.	0.3596	0.1149	0.0594
4.197	4.725	Max.	-0.4988	0.1651	0.1010
		Min.	-0.8723	0.0305	0.0332
		Dif.	0.3736	0.1346	0.0678
4.197	4.975	Max.	-0.4655	0.2338	0.1127
		Min.	-0.8410	0.0892	0.0375
		Dif.	0.3756	0.1445	0.0752
4.197	5.225	Max.	-0.4220	0.2997	0.1280
		Min.	-0.7868	0.1461	0.0470
		Dif.	0.3648	0.1537	0.0810
4.197	5.475	Max.	-0.3720	0.3486	0.1384
		Min.	-0.7126	0.1911	0.0519
		Dif.	0.3405	0.1575	0.0865



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.197	5.725	Max.	-0.3191	0.4104	0.1437
		Min.	-0.6207	0.2037	0.0511
		Dif.	0.3016	0.2067	0.0926
4.197	5.975	Max.	-0.2645	0.4688	0.1475
		Min.	-0.5128	0.1989	0.0585
		Dif.	0.2483	0.2699	0.0890
4.197	6.225	Max.	-0.2127	0.5073	0.1417
		Min.	-0.3934	0.1829	0.0583
		Dif.	0.1808	0.3244	0.0834
4.197	6.475	Max.	-0.1601	0.5286	0.1215
		Min.	-0.2716	0.1699	0.0521
		Dif.	0.1115	0.3586	0.0695
4.197	6.725	Max.	-0.0914	0.5353	0.0883
		Min.	-0.1672	0.1500	0.0473
		Dif.	0.0758	0.3853	0.0410
4.197	6.750	Max.	-0.0849	0.5415	0.0559
		Min.	-0.1597	0.1547	0.0307
		Dif.	0.0748	0.3868	0.0252
4.447	0.001	Max.	-0.1110	0.4176	-0.0947
		Min.	-0.6337	0.1119	-0.2015
		Dif.	0.5228	0.3058	0.1068
4.447	0.225	Max.	-0.0858	0.4167	-0.0947
		Min.	-0.5400	0.1113	-0.2015
		Dif.	0.4541	0.3054	0.1068
4.447	0.475	Max.	-0.0581	0.4130	-0.0817
		Min.	-0.4360	0.1093	-0.1767
		Dif.	0.3779	0.3037	0.0950
4.447	0.725	Max.	-0.0273	0.3973	-0.0674
		Min.	-0.3269	0.1013	-0.1486
		Dif.	0.2996	0.2960	0.0812
4.447	0.975	Max.	-0.0102	0.3099	-0.0430
		Min.	-0.2430	0.0512	-0.1058
		Dif.	0.2328	0.2588	0.0627
4.447	1.225	Max.	0.0067	0.2266	-0.0273
		Min.	-0.1573	0.0000	-0.0791
		Dif.	0.1639	0.2266	0.0518
4.447	1.475	Max.	0.0011	0.1236	-0.0161
		Min.	-0.1103	-0.0605	-0.0587
		Dif.	0.1114	0.1842	0.0427
4.447	1.690	Max.	-0.0142	-0.0297	-0.0187
		Min.	-0.0897	-0.2601	-0.0526
		Dif.	0.0755	0.2304	0.0339
4.447	1.990	Max.	-0.0600	-0.0303	-0.0187
		Min.	-0.1307	-0.2594	-0.0526
		Dif.	0.0707	0.2291	0.0339
4.447	2.225	Max.	-0.0986	-0.1737	-0.0198
		Min.	-0.2283	-0.4275	-0.0552
		Dif.	0.1297	0.2538	0.0354
4.447	2.475	Max.	-0.1511	-0.2303	-0.0228
		Min.	-0.3437	-0.4692	-0.0562
		Dif.	0.1925	0.2389	0.0334
4.447	2.725	Max.	-0.2137	-0.2552	-0.0226
		Min.	-0.4630	-0.4668	-0.0547
		Dif.	0.2494	0.2116	0.0321
4.447	2.975	Max.	-0.2793	-0.2595	-0.0107
		Min.	-0.5728	-0.4230	-0.0455
		Dif.	0.2935	0.1635	0.0349



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.447	3.225	Max.	-0.3529	-0.2190	-0.0067
		Min.	-0.6803	-0.3934	-0.0416
		Dif.	0.3275	0.1744	0.0349
4.447	3.475	Max.	-0.4135	-0.1668	0.0123
		Min.	-0.7584	-0.3458	-0.0244
		Dif.	0.3449	0.1790	0.0367
4.447	3.725	Max.	-0.4655	-0.1051	0.0304
		Min.	-0.8150	-0.2766	-0.0111
		Dif.	0.3495	0.1715	0.0415
4.447	3.975	Max.	-0.5126	-0.0484	0.0381
		Min.	-0.8628	-0.1994	-0.0054
		Dif.	0.3502	0.1509	0.0435
4.447	4.225	Max.	-0.5389	0.0054	0.0520
		Min.	-0.8780	-0.1145	0.0056
		Dif.	0.3391	0.1199	0.0465
4.447	4.475	Max.	-0.5297	0.0747	0.0696
		Min.	-0.8910	-0.0325	0.0175
		Dif.	0.3612	0.1071	0.0520
4.447	4.725	Max.	-0.5161	0.1548	0.0814
		Min.	-0.8888	0.0269	0.0200
		Dif.	0.3728	0.1279	0.0614
4.447	4.975	Max.	-0.4827	0.2227	0.0931
		Min.	-0.8575	0.0864	0.0242
		Dif.	0.3748	0.1363	0.0689
4.447	5.225	Max.	-0.4392	0.2890	0.1085
		Min.	-0.8034	0.1429	0.0337
		Dif.	0.3642	0.1461	0.0748
4.447	5.475	Max.	-0.3965	0.3437	0.1187
		Min.	-0.7326	0.1908	0.0342
		Dif.	0.3361	0.1528	0.0845
4.447	5.725	Max.	-0.3436	0.4073	0.1241
		Min.	-0.6407	0.2016	0.0334
		Dif.	0.2971	0.2057	0.0907
4.447	5.975	Max.	-0.2891	0.4657	0.1278
		Min.	-0.5327	0.1967	0.0408
		Dif.	0.2435	0.2690	0.0870
4.447	6.225	Max.	-0.2348	0.5205	0.1184
		Min.	-0.4106	0.1938	0.0420
		Dif.	0.1758	0.3267	0.0763
4.447	6.475	Max.	-0.1817	0.5434	0.1007
		Min.	-0.2893	0.1792	0.0334
		Dif.	0.1075	0.3642	0.0673
4.447	6.725	Max.	-0.1055	0.5500	0.0778
		Min.	-0.1830	0.1698	0.0305
		Dif.	0.0776	0.3802	0.0473
4.447	6.750	Max.	-0.0956	0.5415	0.0559
		Min.	-0.1707	0.1547	0.0307
		Dif.	0.0751	0.3868	0.0252
4.697	0.001	Max.	-0.0814	0.3868	-0.0915
		Min.	-0.5770	0.0947	-0.1992
		Dif.	0.4955	0.2921	0.1077
4.697	0.225	Max.	-0.0602	0.3858	-0.0915
		Min.	-0.4902	0.0941	-0.1992
		Dif.	0.4300	0.2917	0.1077
4.697	0.475	Max.	-0.0367	0.3811	-0.0782
		Min.	-0.3938	0.0914	-0.1744
		Dif.	0.3571	0.2898	0.0962



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.697	0.725	Max.	-0.0202	0.3625	-0.0624
		Min.	-0.3096	0.0809	-0.1462
		Dif.	0.2895	0.2817	0.0837
4.697	0.975	Max.	0.0085	0.2701	-0.0341
		Min.	-0.2043	0.0269	-0.0942
		Dif.	0.2128	0.2432	0.0601
4.697	1.225	Max.	0.0134	0.2016	-0.0158
		Min.	-0.1407	-0.0120	-0.0686
		Dif.	0.1541	0.2136	0.0528
4.697	1.475	Max.	0.0057	0.1067	-0.0085
		Min.	-0.0987	-0.0654	-0.0571
		Dif.	0.1044	0.1721	0.0486
4.697	1.690	Max.	-0.0109	-0.0349	-0.0042
		Min.	-0.0804	-0.2539	-0.0442
		Dif.	0.0694	0.2189	0.0401
4.697	1.990	Max.	-0.0537	-0.0346	-0.0042
		Min.	-0.1242	-0.2542	-0.0442
		Dif.	0.0705	0.2196	0.0401
4.697	2.225	Max.	-0.0914	-0.1755	-0.0051
		Min.	-0.2204	-0.4185	-0.0468
		Dif.	0.1290	0.2430	0.0417
4.697	2.475	Max.	-0.1444	-0.2327	-0.0088
		Min.	-0.3338	-0.4646	-0.0477
		Dif.	0.1894	0.2319	0.0389
4.697	2.725	Max.	-0.2078	-0.2595	-0.0105
		Min.	-0.4526	-0.4683	-0.0455
		Dif.	0.2449	0.2087	0.0350
4.697	2.975	Max.	-0.2772	-0.2694	-0.0115
		Min.	-0.5650	-0.4405	-0.0448
		Dif.	0.2878	0.1711	0.0333
4.697	3.225	Max.	-0.3477	-0.2311	0.0027
		Min.	-0.6689	-0.4096	-0.0289
		Dif.	0.3212	0.1785	0.0316
4.697	3.475	Max.	-0.4124	-0.1752	0.0013
		Min.	-0.7556	-0.3539	-0.0277
		Dif.	0.3432	0.1786	0.0290
4.697	3.725	Max.	-0.4682	-0.1197	0.0050
		Min.	-0.8212	-0.2869	-0.0249
		Dif.	0.3531	0.1673	0.0299
4.697	3.975	Max.	-0.5123	-0.0666	0.0262
		Min.	-0.8607	-0.2167	-0.0096
		Dif.	0.3484	0.1501	0.0357
4.697	4.225	Max.	-0.5445	-0.0042	0.0299
		Min.	-0.8841	-0.1215	-0.0068
		Dif.	0.3396	0.1172	0.0367
4.697	4.475	Max.	-0.5422	0.0602	0.0364
		Min.	-0.9032	-0.0363	-0.0049
		Dif.	0.3610	0.0965	0.0413
4.697	4.725	Max.	-0.5216	0.1325	0.0556
		Min.	-0.8965	0.0180	0.0057
		Dif.	0.3749	0.1146	0.0500
4.697	4.975	Max.	-0.4953	0.2126	0.0626
		Min.	-0.8705	0.0827	0.0071
		Dif.	0.3752	0.1299	0.0555
4.697	5.225	Max.	-0.4593	0.2784	0.0691
		Min.	-0.8203	0.1420	0.0079
		Dif.	0.3610	0.1364	0.0612



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.697	5.475	Max.	-0.4128	0.3276	0.0836
		Min.	-0.7446	0.1809	0.0120
		Dif.	0.3318	0.1467	0.0716
4.697	5.725	Max.	-0.3650	0.4043	0.0900
		Min.	-0.6544	0.1994	0.0127
		Dif.	0.2893	0.2049	0.0773
4.697	5.975	Max.	-0.3132	0.4708	0.0909
		Min.	-0.5467	0.2080	0.0151
		Dif.	0.2335	0.2628	0.0758
4.697	6.225	Max.	-0.2594	0.5169	0.0746
		Min.	-0.4235	0.1955	0.0092
		Dif.	0.1641	0.3214	0.0654
4.697	6.475	Max.	-0.1997	0.5478	0.0769
		Min.	-0.3001	0.1896	0.0102
		Dif.	0.1004	0.3582	0.0668
4.697	6.725	Max.	-0.1166	0.5557	0.0610
		Min.	-0.1970	0.1824	0.0084
		Dif.	0.0805	0.3733	0.0526
4.697	6.750	Max.	-0.1079	0.5549	0.0397
		Min.	-0.1872	0.1795	0.0013
		Dif.	0.0793	0.3754	0.0384
4.947	0.001	Max.	-0.0523	0.3542	-0.0856
		Min.	-0.5212	0.0763	-0.1910
		Dif.	0.4690	0.2779	0.1054
4.947	0.225	Max.	-0.0350	0.3532	-0.0856
		Min.	-0.4419	0.0757	-0.1910
		Dif.	0.4069	0.2775	0.1054
4.947	0.475	Max.	-0.0159	0.3438	-0.0676
		Min.	-0.3539	0.0701	-0.1578
		Dif.	0.3380	0.2736	0.0902
4.947	0.725	Max.	0.0008	0.3252	-0.0518
		Min.	-0.2700	0.0596	-0.1295
		Dif.	0.2707	0.2656	0.0777
4.947	0.975	Max.	0.0148	0.2868	-0.0360
		Min.	-0.1908	0.0379	-0.1013
		Dif.	0.2056	0.2489	0.0654
4.947	1.225	Max.	0.0199	0.2183	-0.0185
		Min.	-0.1273	-0.0010	-0.0748
		Dif.	0.1472	0.2193	0.0563
4.947	1.475	Max.	0.0113	0.0966	-0.0031
		Min.	-0.0883	-0.0757	-0.0529
		Dif.	0.0996	0.1723	0.0498
4.947	1.690	Max.	-0.0067	-0.0400	0.0071
		Min.	-0.0742	-0.2537	-0.0348
		Dif.	0.0674	0.2138	0.0419
4.947	1.990	Max.	-0.0447	-0.0400	0.0071
		Min.	-0.1244	-0.2537	-0.0348
		Dif.	0.0797	0.2138	0.0419
4.947	2.225	Max.	-0.0839	-0.1762	0.0046
		Min.	-0.2174	-0.4120	-0.0401
		Dif.	0.1335	0.2359	0.0447
4.947	2.475	Max.	-0.1386	-0.2344	-0.0002
		Min.	-0.3277	-0.4593	-0.0426
		Dif.	0.1892	0.2249	0.0424
4.947	2.725	Max.	-0.2033	-0.2710	-0.0052
		Min.	-0.4454	-0.4610	-0.0447
		Dif.	0.2420	0.1900	0.0395



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.947	2.975	Max.	-0.2723	-0.2737	-0.0062
		Min.	-0.5582	-0.4405	-0.0440
		Dif.	0.2858	0.1668	0.0378
4.947	3.225	Max.	-0.3444	-0.2396	-0.0072
		Min.	-0.6628	-0.4177	-0.0432
		Dif.	0.3185	0.1781	0.0360
4.947	3.475	Max.	-0.4090	-0.1837	-0.0082
		Min.	-0.7495	-0.3620	-0.0425
		Dif.	0.3405	0.1783	0.0343
4.947	3.725	Max.	-0.4643	-0.1280	-0.0054
		Min.	-0.8157	-0.2951	-0.0387
		Dif.	0.3514	0.1671	0.0333
4.947	3.975	Max.	-0.5100	-0.0759	-0.0027
		Min.	-0.8624	-0.2240	-0.0350
		Dif.	0.3525	0.1481	0.0323
4.947	4.225	Max.	-0.5411	-0.0138	0.0001
		Min.	-0.8868	-0.1284	-0.0313
		Dif.	0.3458	0.1146	0.0314
4.947	4.475	Max.	-0.5417	0.0480	0.0051
		Min.	-0.9030	-0.0408	-0.0279
		Dif.	0.3612	0.0888	0.0330
4.947	4.725	Max.	-0.5262	0.1224	0.0103
		Min.	-0.9003	0.0142	-0.0248
		Dif.	0.3741	0.1082	0.0351
4.947	4.975	Max.	-0.5000	0.2025	0.0155
		Min.	-0.8742	0.0789	-0.0216
		Dif.	0.3742	0.1236	0.0372
4.947	5.225	Max.	-0.4641	0.2675	0.0217
		Min.	-0.8238	0.1390	-0.0203
		Dif.	0.3597	0.1285	0.0421
4.947	5.475	Max.	-0.4211	0.3233	0.0288
		Min.	-0.7515	0.1800	-0.0200
		Dif.	0.3304	0.1433	0.0489
4.947	5.725	Max.	-0.3737	0.4013	0.0359
		Min.	-0.6608	0.1973	-0.0199
		Dif.	0.2871	0.2040	0.0558
4.947	5.975	Max.	-0.3230	0.4676	0.0378
		Min.	-0.5519	0.2061	-0.0186
		Dif.	0.2289	0.2616	0.0564
4.947	6.225	Max.	-0.2704	0.5104	0.0398
		Min.	-0.4278	0.2073	-0.0173
		Dif.	0.1575	0.3031	0.0571
4.947	6.475	Max.	-0.2091	0.5416	0.0418
		Min.	-0.3061	0.2011	-0.0161
		Dif.	0.0970	0.3405	0.0578
4.947	6.725	Max.	-0.1228	0.5583	0.0384
		Min.	-0.2032	0.1892	-0.0104
		Dif.	0.0804	0.3691	0.0487
4.947	6.750	Max.	-0.1136	0.5549	0.0397
		Min.	-0.1917	0.1795	0.0013
		Dif.	0.0782	0.3754	0.0384
5.197	0.001	Max.	-0.0209	0.3204	-0.0801
		Min.	-0.4709	0.0566	-0.1836
		Dif.	0.4500	0.2638	0.1034
5.197	0.225	Max.	-0.0082	0.3194	-0.0801
		Min.	-0.3990	0.0560	-0.1836
		Dif.	0.3908	0.2634	0.1034



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.197	0.475	Max.	0.0056	0.3153	-0.0659
		Min.	-0.3195	0.0535	-0.1572
		Dif.	0.3251	0.2617	0.0913
5.197	0.725	Max.	0.0223	0.2967	-0.0502
		Min.	-0.2355	0.0430	-0.1289
		Dif.	0.2578	0.2537	0.0788
5.197	0.975	Max.	0.0230	0.2259	-0.0253
		Min.	-0.1769	0.0030	-0.0842
		Dif.	0.1999	0.2229	0.0589
5.197	1.225	Max.	0.0281	0.1573	-0.0082
		Min.	-0.1134	-0.0359	-0.0573
		Dif.	0.1415	0.1932	0.0491
5.197	1.475	Max.	0.0150	0.0855	0.0062
		Min.	-0.0817	-0.0926	-0.0392
		Dif.	0.0967	0.1781	0.0454
5.197	1.690	Max.	-0.0026	-0.0420	0.0174
		Min.	-0.0717	-0.2556	-0.0204
		Dif.	0.0691	0.2136	0.0379
5.197	1.990	Max.	-0.0374	-0.0420	0.0174
		Min.	-0.1262	-0.2556	-0.0204
		Dif.	0.0888	0.2136	0.0379
5.197	2.225	Max.	-0.0771	-0.1749	0.0124
		Min.	-0.2174	-0.4062	-0.0306
		Dif.	0.1403	0.2314	0.0430
5.197	2.475	Max.	-0.1315	-0.2302	0.0063
		Min.	-0.3256	-0.4514	-0.0358
		Dif.	0.1941	0.2212	0.0420
5.197	2.725	Max.	-0.1955	-0.2569	-0.0008
		Min.	-0.4398	-0.4576	-0.0430
		Dif.	0.2443	0.2008	0.0422
5.197	2.975	Max.	-0.2654	-0.2656	-0.0018
		Min.	-0.5518	-0.4310	-0.0422
		Dif.	0.2864	0.1654	0.0404
5.197	3.225	Max.	-0.3368	-0.2357	-0.0162
		Min.	-0.6543	-0.4126	-0.0606
		Dif.	0.3175	0.1769	0.0444
5.197	3.475	Max.	-0.4010	-0.1798	-0.0172
		Min.	-0.7415	-0.3570	-0.0598
		Dif.	0.3405	0.1772	0.0427
5.197	3.725	Max.	-0.4561	-0.1241	-0.0144
		Min.	-0.8078	-0.2902	-0.0561
		Dif.	0.3518	0.1661	0.0417
5.197	3.975	Max.	-0.5019	-0.0747	-0.0237
		Min.	-0.8555	-0.2226	-0.0688
		Dif.	0.3537	0.1479	0.0451
5.197	4.225	Max.	-0.5323	-0.0129	-0.0210
		Min.	-0.8806	-0.1268	-0.0651
		Dif.	0.3483	0.1139	0.0441
5.197	4.475	Max.	-0.5359	0.0492	-0.0160
		Min.	-0.8939	-0.0394	-0.0616
		Dif.	0.3580	0.0886	0.0456
5.197	4.725	Max.	-0.5222	0.1222	-0.0206
		Min.	-0.8930	0.0141	-0.0702
		Dif.	0.3708	0.1081	0.0496
5.197	4.975	Max.	-0.4959	0.2025	-0.0154
		Min.	-0.8669	0.0787	-0.0671
		Dif.	0.3710	0.1238	0.0517



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.197	5.225	Max.	-0.4601	0.2671	-0.0094
		Min.	-0.8165	0.1390	-0.0658
		Dif.	0.3564	0.1282	0.0563
5.197	5.475	Max.	-0.4182	0.3192	-0.0085
		Min.	-0.7470	0.1792	-0.0707
		Dif.	0.3288	0.1400	0.0622
5.197	5.725	Max.	-0.3710	0.3971	-0.0026
		Min.	-0.6562	0.1965	-0.0694
		Dif.	0.2852	0.2007	0.0668
5.197	5.975	Max.	-0.3203	0.4635	-0.0010
		Min.	-0.5473	0.2053	-0.0678
		Dif.	0.2270	0.2582	0.0668
5.197	6.225	Max.	-0.2689	0.5127	0.0092
		Min.	-0.4269	0.2011	-0.0502
		Dif.	0.1580	0.3116	0.0593
5.197	6.475	Max.	-0.2051	0.5434	0.0109
		Min.	-0.3077	0.1953	-0.0487
		Dif.	0.1026	0.3481	0.0597
5.197	6.725	Max.	-0.1229	0.5529	0.0112
		Min.	-0.2028	0.1890	-0.0366
		Dif.	0.0799	0.3639	0.0478
5.197	6.750	Max.	-0.1132	0.5466	0.0045
		Min.	-0.1911	0.1805	-0.0301
		Dif.	0.0779	0.3660	0.0346
5.447	0.001	Max.	0.0086	0.2885	-0.0692
		Min.	-0.4229	0.0368	-0.1695
		Dif.	0.4315	0.2517	0.1002
5.447	0.225	Max.	0.0169	0.2875	-0.0692
		Min.	-0.3581	0.0362	-0.1695
		Dif.	0.3750	0.2513	0.1002
5.447	0.475	Max.	0.0259	0.2843	-0.0559
		Min.	-0.2863	0.0342	-0.1428
		Dif.	0.3122	0.2500	0.0870
5.447	0.725	Max.	0.0279	0.2572	-0.0276
		Min.	-0.2261	0.0174	-0.0953
		Dif.	0.2539	0.2398	0.0676
5.447	0.975	Max.	0.0412	0.1798	-0.0005
		Min.	-0.1477	-0.0262	-0.0468
		Dif.	0.1889	0.2061	0.0463
5.447	1.225	Max.	0.0322	0.1347	0.0074
		Min.	-0.1054	-0.0512	-0.0322
		Dif.	0.1376	0.1859	0.0396
5.447	1.475	Max.	0.0162	0.0790	0.0156
		Min.	-0.0778	-0.1077	-0.0196
		Dif.	0.0940	0.1867	0.0351
5.447	1.690	Max.	0.0000	-0.0418	0.0294
		Min.	-0.0728	-0.2595	0.0027
		Dif.	0.0728	0.2177	0.0267
5.447	1.990	Max.	-0.0334	-0.0418	0.0294
		Min.	-0.1299	-0.2595	0.0027
		Dif.	0.0965	0.2177	0.0267
5.447	2.225	Max.	-0.0729	-0.1708	0.0216
		Min.	-0.2197	-0.4013	-0.0144
		Dif.	0.1468	0.2305	0.0360
5.447	2.475	Max.	-0.1266	-0.2247	0.0151
		Min.	-0.3254	-0.4428	-0.0224
		Dif.	0.1988	0.2180	0.0376



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.447	2.725	Max.	-0.1897	-0.2504	0.0078
		Min.	-0.4368	-0.4476	-0.0297
		Dif.	0.2470	0.1972	0.0374
5.447	2.975	Max.	-0.2561	-0.2572	0.0007
		Min.	-0.5406	-0.4190	-0.0400
		Dif.	0.2845	0.1618	0.0407
5.447	3.225	Max.	-0.3291	-0.2203	-0.0055
		Min.	-0.6477	-0.3948	-0.0455
		Dif.	0.3187	0.1744	0.0401
5.447	3.475	Max.	-0.3909	-0.1759	-0.0208
		Min.	-0.7294	-0.3519	-0.0669
		Dif.	0.3384	0.1760	0.0461
5.447	3.725	Max.	-0.4442	-0.1225	-0.0285
		Min.	-0.7921	-0.2876	-0.0769
		Dif.	0.3479	0.1651	0.0484
5.447	3.975	Max.	-0.4911	-0.0656	-0.0269
		Min.	-0.8418	-0.2114	-0.0747
		Dif.	0.3507	0.1457	0.0478
5.447	4.225	Max.	-0.5196	-0.0115	-0.0343
		Min.	-0.8658	-0.1257	-0.0854
		Dif.	0.3462	0.1142	0.0511
5.447	4.475	Max.	-0.5227	0.0489	-0.0434
		Min.	-0.8780	-0.0410	-0.0957
		Dif.	0.3553	0.0899	0.0523
5.447	4.725	Max.	-0.5119	0.1294	-0.0383
		Min.	-0.8752	0.0184	-0.0936
		Dif.	0.3634	0.1110	0.0553
5.447	4.975	Max.	-0.4844	0.2028	-0.0378
		Min.	-0.8494	0.0781	-0.0965
		Dif.	0.3650	0.1247	0.0587
5.447	5.225	Max.	-0.4474	0.2658	-0.0487
		Min.	-0.8001	0.1353	-0.1068
		Dif.	0.3527	0.1304	0.0581
5.447	5.475	Max.	-0.4063	0.3246	-0.0415
		Min.	-0.7294	0.1805	-0.1068
		Dif.	0.3231	0.1442	0.0653
5.447	5.725	Max.	-0.3588	0.3930	-0.0312
		Min.	-0.6408	0.1957	-0.1034
		Dif.	0.2820	0.1974	0.0722
5.447	5.975	Max.	-0.3079	0.4494	-0.0395
		Min.	-0.5367	0.1979	-0.1083
		Dif.	0.2288	0.2516	0.0689
5.447	6.225	Max.	-0.2523	0.5046	-0.0338
		Min.	-0.4169	0.1956	-0.0989
		Dif.	0.1645	0.3090	0.0651
5.447	6.475	Max.	-0.1935	0.5336	-0.0161
		Min.	-0.3024	0.1878	-0.0790
		Dif.	0.1088	0.3458	0.0628
5.447	6.725	Max.	-0.1155	0.5412	-0.0095
		Min.	-0.1993	0.1807	-0.0579
		Dif.	0.0838	0.3605	0.0484
5.447	6.750	Max.	-0.1085	0.5467	0.0045
		Min.	-0.1894	0.1804	-0.0301
		Dif.	0.0809	0.3664	0.0346
5.697	0.001	Max.	0.0347	0.2550	-0.0461
		Min.	-0.3797	0.0161	-0.1400
		Dif.	0.4144	0.2389	0.0940



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.697	0.225	Max.	0.0383	0.2541	-0.0461
		Min.	-0.3225	0.0155	-0.1400
		Dif.	0.3607	0.2386	0.0940
5.697	0.475	Max.	0.0422	0.2497	-0.0294
		Min.	-0.2589	0.0128	-0.1073
		Dif.	0.3011	0.2370	0.0779
5.697	0.725	Max.	0.0441	0.2227	-0.0002
		Min.	-0.1987	-0.0041	-0.0608
		Dif.	0.2428	0.2268	0.0607
5.697	0.975	Max.	0.0411	0.1871	0.0165
		Min.	-0.1463	-0.0256	-0.0297
		Dif.	0.1874	0.2127	0.0463
5.697	1.225	Max.	0.0320	0.1420	0.0213
		Min.	-0.1040	-0.0506	-0.0120
		Dif.	0.1360	0.1927	0.0333
5.697	1.475	Max.	0.0140	0.0753	0.0311
		Min.	-0.0783	-0.1217	0.0096
		Dif.	0.0924	0.1970	0.0215
5.697	1.690	Max.	-0.0025	-0.0399	0.0472
		Min.	-0.0774	-0.2648	0.0371
		Dif.	0.0750	0.2249	0.0101
5.697	1.990	Max.	-0.0347	-0.0399	0.0472
		Min.	-0.1367	-0.2648	0.0371
		Dif.	0.1020	0.2249	0.0101
5.697	2.225	Max.	-0.0733	-0.1637	0.0362
		Min.	-0.2249	-0.3954	0.0104
		Dif.	0.1516	0.2317	0.0258
5.697	2.475	Max.	-0.1256	-0.2164	0.0282
		Min.	-0.3280	-0.4335	-0.0036
		Dif.	0.2024	0.2171	0.0318
5.697	2.725	Max.	-0.1878	-0.2510	0.0161
		Min.	-0.4360	-0.4304	-0.0191
		Dif.	0.2481	0.1794	0.0351
5.697	2.975	Max.	-0.2542	-0.2484	0.0099
		Min.	-0.5398	-0.4113	-0.0304
		Dif.	0.2856	0.1628	0.0403
5.697	3.225	Max.	-0.3201	-0.2164	-0.0023
		Min.	-0.6348	-0.3899	-0.0467
		Dif.	0.3147	0.1736	0.0444
5.697	3.475	Max.	-0.3819	-0.1724	-0.0193
		Min.	-0.7164	-0.3466	-0.0665
		Dif.	0.3345	0.1743	0.0472
5.697	3.725	Max.	-0.4348	-0.1182	-0.0273
		Min.	-0.7795	-0.2830	-0.0761
		Dif.	0.3446	0.1648	0.0488
5.697	3.975	Max.	-0.4777	-0.0649	-0.0362
		Min.	-0.8222	-0.2096	-0.0871
		Dif.	0.3445	0.1447	0.0509
5.697	4.225	Max.	-0.5057	-0.0100	-0.0437
		Min.	-0.8467	-0.1248	-0.0978
		Dif.	0.3410	0.1148	0.0541
5.697	4.475	Max.	-0.5098	0.0507	-0.0527
		Min.	-0.8579	-0.0402	-0.1080
		Dif.	0.3481	0.0909	0.0553
5.697	4.725	Max.	-0.4958	0.1298	-0.0580
		Min.	-0.8521	0.0178	-0.1156
		Dif.	0.3563	0.1119	0.0576



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.697	4.975	Max.	-0.4686	0.2031	-0.0577
		Min.	-0.8261	0.0775	-0.1182
		Dif.	0.3575	0.1256	0.0605
5.697	5.225	Max.	-0.4315	0.2661	-0.0656
		Min.	-0.7768	0.1347	-0.1314
		Dif.	0.3453	0.1314	0.0657
5.697	5.475	Max.	-0.3880	0.3230	-0.0666
		Min.	-0.7069	0.1771	-0.1363
		Dif.	0.3189	0.1459	0.0697
5.697	5.725	Max.	-0.3403	0.3908	-0.0585
		Min.	-0.6184	0.1931	-0.1307
		Dif.	0.2782	0.1978	0.0722
5.697	5.975	Max.	-0.2877	0.4455	-0.0649
		Min.	-0.5162	0.1969	-0.1375
		Dif.	0.2285	0.2486	0.0726
5.697	6.225	Max.	-0.2349	0.4872	-0.0609
		Min.	-0.4025	0.1912	-0.1295
		Dif.	0.1676	0.2960	0.0686
5.697	6.475	Max.	-0.1749	0.5162	-0.0456
		Min.	-0.2892	0.1834	-0.1073
		Dif.	0.1143	0.3328	0.0617
5.697	6.725	Max.	-0.1019	0.5290	-0.0401
		Min.	-0.1862	0.1671	-0.0836
		Dif.	0.0843	0.3619	0.0435
5.697	6.750	Max.	-0.0942	0.5270	-0.0306
		Min.	-0.1758	0.1606	-0.0516
		Dif.	0.0816	0.3664	0.0210
5.947	0.001	Max.	0.0543	0.2186	-0.0111
		Min.	-0.3456	-0.0064	-0.0930
		Dif.	0.3998	0.2250	0.0819
5.947	0.225	Max.	0.0528	0.2177	-0.0111
		Min.	-0.2965	-0.0070	-0.0930
		Dif.	0.3493	0.2247	0.0819
5.947	0.475	Max.	0.0508	0.2106	0.0072
		Min.	-0.2425	-0.0115	-0.0610
		Dif.	0.2933	0.2221	0.0682
5.947	0.725	Max.	0.0468	0.1926	0.0288
		Min.	-0.1918	-0.0229	-0.0285
		Dif.	0.2385	0.2154	0.0573
5.947	0.975	Max.	0.0393	0.1641	0.0461
		Min.	-0.1464	-0.0403	-0.0006
		Dif.	0.1857	0.2044	0.0467
5.947	1.225	Max.	0.0267	0.1220	0.0589
		Min.	-0.1096	-0.0713	0.0246
		Dif.	0.1363	0.1934	0.0343
5.947	1.475	Max.	0.0055	0.0714	0.0670
		Min.	-0.0876	-0.1382	0.0469
		Dif.	0.0932	0.2096	0.0201
5.947	1.690	Max.	-0.0128	-0.0349	0.0916
		Min.	-0.0886	-0.2695	0.0679
		Dif.	0.0758	0.2346	0.0238
5.947	1.990	Max.	-0.0441	-0.0349	0.0915
		Min.	-0.1487	-0.2695	0.0679
		Dif.	0.1046	0.2346	0.0236
5.947	2.225	Max.	-0.0808	-0.1519	0.0625
		Min.	-0.2349	-0.3880	0.0450
		Dif.	0.1542	0.2361	0.0175



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.947	2.475	Max.	-0.1306	-0.2053	0.0530
		Min.	-0.3344	-0.4178	0.0249
		Dif.	0.2038	0.2125	0.0282
5.947	2.725	Max.	-0.1901	-0.2374	0.0405
		Min.	-0.4377	-0.4137	0.0048
		Dif.	0.2476	0.1763	0.0356
5.947	2.975	Max.	-0.2536	-0.2368	0.0271
		Min.	-0.5376	-0.3949	-0.0143
		Dif.	0.2840	0.1581	0.0413
5.947	3.225	Max.	-0.3158	-0.2029	0.0121
		Min.	-0.6286	-0.3725	-0.0328
		Dif.	0.3128	0.1696	0.0449
5.947	3.475	Max.	-0.3746	-0.1585	-0.0035
		Min.	-0.7046	-0.3304	-0.0510
		Dif.	0.3299	0.1720	0.0475
5.947	3.725	Max.	-0.4256	-0.1068	-0.0175
		Min.	-0.7634	-0.2712	-0.0661
		Dif.	0.3378	0.1644	0.0486
5.947	3.975	Max.	-0.4662	-0.0535	-0.0306
		Min.	-0.8025	-0.1984	-0.0797
		Dif.	0.3363	0.1448	0.0491
5.947	4.225	Max.	-0.4916	0.0008	-0.0421
		Min.	-0.8237	-0.1153	-0.0931
		Dif.	0.3320	0.1160	0.0511
5.947	4.475	Max.	-0.4938	0.0615	-0.0513
		Min.	-0.8324	-0.0350	-0.1043
		Dif.	0.3386	0.0965	0.0530
5.947	4.725	Max.	-0.4779	0.1401	-0.0591
		Min.	-0.8246	0.0227	-0.1151
		Dif.	0.3467	0.1174	0.0560
5.947	4.975	Max.	-0.4485	0.2125	-0.0651
		Min.	-0.7969	0.0813	-0.1266
		Dif.	0.3483	0.1312	0.0615
5.947	5.225	Max.	-0.4092	0.2738	-0.0692
		Min.	-0.7469	0.1374	-0.1364
		Dif.	0.3377	0.1364	0.0673
5.947	5.475	Max.	-0.3637	0.3274	-0.0725
		Min.	-0.6766	0.1802	-0.1450
		Dif.	0.3129	0.1472	0.0724
5.947	5.725	Max.	-0.3149	0.3910	-0.0750
		Min.	-0.5881	0.1945	-0.1510
		Dif.	0.2732	0.1965	0.0760
5.947	5.975	Max.	-0.2615	0.4415	-0.0759
		Min.	-0.4868	0.1960	-0.1507
		Dif.	0.2252	0.2455	0.0748
5.947	6.225	Max.	-0.2092	0.4786	-0.0745
		Min.	-0.3755	0.1832	-0.1421
		Dif.	0.1663	0.2954	0.0675
5.947	6.475	Max.	-0.1524	0.5025	-0.0682
		Min.	-0.2655	0.1678	-0.1228
		Dif.	0.1131	0.3347	0.0546
5.947	6.725	Max.	-0.0844	0.5119	-0.0576
		Min.	-0.1649	0.1502	-0.0888
		Dif.	0.0805	0.3617	0.0312
5.947	6.750	Max.	-0.0749	0.4973	-0.0294
		Min.	-0.1527	0.1329	-0.0717
		Dif.	0.0778	0.3645	0.0423



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.197	0.001	Max.	0.0634	0.1839	0.0390
		Min.	-0.3260	-0.0278	-0.0255
		Dif.	0.3893	0.2117	0.0645
6.197	0.225	Max.	0.0572	0.1830	0.0390
		Min.	-0.2847	-0.0284	-0.0255
		Dif.	0.3418	0.2114	0.0645
6.197	0.475	Max.	0.0497	0.1769	0.0571
		Min.	-0.2395	-0.0322	0.0014
		Dif.	0.2892	0.2091	0.0557
6.197	0.725	Max.	0.0409	0.1633	0.0764
		Min.	-0.1967	-0.0407	0.0281
		Dif.	0.2376	0.2040	0.0483
6.197	0.975	Max.	0.0293	0.1390	0.0942
		Min.	-0.1582	-0.0562	0.0516
		Dif.	0.1874	0.1952	0.0426
6.197	1.225	Max.	0.0127	0.1099	0.1147
		Min.	-0.1273	-0.0947	0.0683
		Dif.	0.1401	0.2046	0.0463
6.197	1.475	Max.	-0.0118	0.0671	0.1338
		Min.	-0.1093	-0.1552	0.0803
		Dif.	0.0975	0.2223	0.0535
6.197	1.690	Max.	-0.0342	-0.0265	0.1651
		Min.	-0.1097	-0.2732	0.0989
		Dif.	0.0755	0.2467	0.0662
6.197	1.990	Max.	-0.0648	-0.0265	0.1651
		Min.	-0.1691	-0.2732	0.0989
		Dif.	0.1043	0.2467	0.0662
6.197	2.225	Max.	-0.0985	-0.1389	0.1199
		Min.	-0.2529	-0.3741	0.0759
		Dif.	0.1543	0.2351	0.0440
6.197	2.475	Max.	-0.1445	-0.1915	0.0979
		Min.	-0.3484	-0.3970	0.0611
		Dif.	0.2039	0.2056	0.0368
6.197	2.725	Max.	-0.1996	-0.2232	0.0770
		Min.	-0.4470	-0.3906	0.0435
		Dif.	0.2473	0.1674	0.0336
6.197	2.975	Max.	-0.2592	-0.2221	0.0585
		Min.	-0.5414	-0.3727	0.0227
		Dif.	0.2822	0.1506	0.0358
6.197	3.225	Max.	-0.3185	-0.1869	0.0400
		Min.	-0.6263	-0.3521	0.0026
		Dif.	0.3078	0.1652	0.0374
6.197	3.475	Max.	-0.3730	-0.1423	0.0223
		Min.	-0.6978	-0.3122	-0.0166
		Dif.	0.3248	0.1698	0.0389
6.197	3.725	Max.	-0.4207	-0.0919	0.0057
		Min.	-0.7517	-0.2553	-0.0345
		Dif.	0.3310	0.1634	0.0402
6.197	3.975	Max.	-0.4585	-0.0397	-0.0095
		Min.	-0.7863	-0.1840	-0.0506
		Dif.	0.3278	0.1443	0.0411
6.197	4.225	Max.	-0.4812	0.0134	-0.0231
		Min.	-0.8034	-0.1032	-0.0653
		Dif.	0.3222	0.1166	0.0422
6.197	4.475	Max.	-0.4808	0.0753	-0.0342
		Min.	-0.8091	-0.0275	-0.0789
		Dif.	0.3282	0.1028	0.0448



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.197	4.725	Max.	-0.4624	0.1534	-0.0427
		Min.	-0.7985	0.0295	-0.0931
		Dif.	0.3361	0.1239	0.0504
6.197	4.975	Max.	-0.4297	0.2243	-0.0492
		Min.	-0.7690	0.0869	-0.1075
		Dif.	0.3394	0.1374	0.0584
6.197	5.225	Max.	-0.3874	0.2843	-0.0536
		Min.	-0.7182	0.1415	-0.1209
		Dif.	0.3308	0.1428	0.0672
6.197	5.475	Max.	-0.3399	0.3325	-0.0573
		Min.	-0.6460	0.1884	-0.1339
		Dif.	0.3061	0.1441	0.0767
6.197	5.725	Max.	-0.2882	0.3927	-0.0605
		Min.	-0.5570	0.2005	-0.1453
		Dif.	0.2687	0.1922	0.0848
6.197	5.975	Max.	-0.2356	0.4409	-0.0635
		Min.	-0.4541	0.1956	-0.1501
		Dif.	0.2185	0.2453	0.0865
6.197	6.225	Max.	-0.1831	0.4729	-0.0672
		Min.	-0.3446	0.1747	-0.1451
		Dif.	0.1615	0.2982	0.0778
6.197	6.475	Max.	-0.1303	0.4870	-0.0682
		Min.	-0.2366	0.1480	-0.1261
		Dif.	0.1064	0.3390	0.0578
6.197	6.725	Max.	-0.0699	0.4879	-0.0547
		Min.	-0.1420	0.1274	-0.0984
		Dif.	0.0721	0.3605	0.0437
6.197	6.750	Max.	-0.0666	0.4972	-0.0294
		Min.	-0.1357	0.1331	-0.0717
		Dif.	0.0691	0.3641	0.0423
6.447	0.001	Max.	0.0576	0.1521	0.1099
		Min.	-0.3274	-0.0476	0.0733
		Dif.	0.3850	0.1998	0.0366
6.447	0.225	Max.	0.0469	0.1512	0.1099
		Min.	-0.2932	-0.0482	0.0733
		Dif.	0.3401	0.1994	0.0366
6.447	0.475	Max.	0.0347	0.1470	0.1324
		Min.	-0.2558	-0.0507	0.0866
		Dif.	0.2905	0.1977	0.0457
6.447	0.725	Max.	0.0217	0.1364	0.1555
		Min.	-0.2197	-0.0573	0.0995
		Dif.	0.2414	0.1937	0.0560
6.447	0.975	Max.	0.0065	0.1204	0.1774
		Min.	-0.1872	-0.0776	0.1103
		Dif.	0.1936	0.1980	0.0671
6.447	1.225	Max.	-0.0133	0.0962	0.1988
		Min.	-0.1616	-0.1164	0.1179
		Dif.	0.1483	0.2126	0.0809
6.447	1.475	Max.	-0.0409	0.0594	0.2193
		Min.	-0.1476	-0.1740	0.1237
		Dif.	0.1067	0.2333	0.0956
6.447	1.690	Max.	-0.0702	-0.0131	0.2633
		Min.	-0.1456	-0.2756	0.1403
		Dif.	0.0754	0.2625	0.1230
6.447	1.990	Max.	-0.1007	-0.0131	0.2633
		Min.	-0.2018	-0.2756	0.1403
		Dif.	0.1012	0.2625	0.1230



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.447	2.225	Max.	-0.1291	-0.1180	0.1988
		Min.	-0.2835	-0.3547	0.1163
		Dif.	0.1544	0.2367	0.0825
6.447	2.475	Max.	-0.1696	-0.1717	0.1692
		Min.	-0.3752	-0.3712	0.1056
		Dif.	0.2056	0.1995	0.0635
6.447	2.725	Max.	-0.2199	-0.2039	0.1415
		Min.	-0.4683	-0.3626	0.0918
		Dif.	0.2484	0.1587	0.0497
6.447	2.975	Max.	-0.2753	-0.2029	0.1133
		Min.	-0.5565	-0.3451	0.0767
		Dif.	0.2812	0.1423	0.0365
6.447	3.225	Max.	-0.3300	-0.1678	0.0861
		Min.	-0.6356	-0.3268	0.0614
		Dif.	0.3056	0.1590	0.0246
6.447	3.475	Max.	-0.3803	-0.1239	0.0644
		Min.	-0.7017	-0.2893	0.0427
		Dif.	0.3214	0.1654	0.0217
6.447	3.725	Max.	-0.4242	-0.0750	0.0463
		Min.	-0.7503	-0.2350	0.0236
		Dif.	0.3262	0.1600	0.0227
6.447	3.975	Max.	-0.4585	-0.0246	0.0300
		Min.	-0.7800	-0.1661	0.0061
		Dif.	0.3215	0.1415	0.0239
6.447	4.225	Max.	-0.4783	0.0269	0.0155
		Min.	-0.7926	-0.0881	-0.0096
		Dif.	0.3143	0.1150	0.0252
6.447	4.475	Max.	-0.4747	0.0902	0.0036
		Min.	-0.7950	-0.0176	-0.0245
		Dif.	0.3202	0.1078	0.0281
6.447	4.725	Max.	-0.4532	0.1668	-0.0054
		Min.	-0.7815	0.0380	-0.0398
		Dif.	0.3282	0.1288	0.0344
6.447	4.975	Max.	-0.4173	0.2359	-0.0122
		Min.	-0.7497	0.0938	-0.0550
		Dif.	0.3324	0.1421	0.0428
6.447	5.225	Max.	-0.3725	0.2940	-0.0167
		Min.	-0.6965	0.1477	-0.0703
		Dif.	0.3240	0.1463	0.0536
6.447	5.475	Max.	-0.3213	0.3374	-0.0190
		Min.	-0.6235	0.1973	-0.0866
		Dif.	0.3022	0.1400	0.0677
6.447	5.725	Max.	-0.2678	0.3924	-0.0192
		Min.	-0.5320	0.2109	-0.1038
		Dif.	0.2642	0.1815	0.0845
6.447	5.975	Max.	-0.2140	0.4400	-0.0179
		Min.	-0.4269	0.2003	-0.1203
		Dif.	0.2128	0.2397	0.1024
6.447	6.225	Max.	-0.1634	0.4694	-0.0165
		Min.	-0.3139	0.1712	-0.1332
		Dif.	0.1505	0.2981	0.1167
6.447	6.475	Max.	-0.1139	0.4782	-0.0155
		Min.	-0.2048	0.1354	-0.1315
		Dif.	0.0909	0.3428	0.1160
6.447	6.725	Max.	-0.0546	0.4771	-0.0085
		Min.	-0.1140	0.1143	-0.1026
		Dif.	0.0594	0.3628	0.0941



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.447	6.750	Max.	-0.0501	0.4609	0.0263
		Min.	-0.1000	0.1027	-0.0597
		Dif.	0.0499	0.3583	0.0860
6.550	0.225	Max.	0.0414	0.1236	0.2408
		Min.	-0.2985	-0.0676	0.1580
		Dif.	0.3399	0.1912	0.0828
6.550	0.475	Max.	0.0267	0.1213	0.2500
		Min.	-0.2651	-0.0714	0.1635
		Dif.	0.2917	0.1927	0.0865
6.550	0.725	Max.	0.0120	0.1140	0.2626
		Min.	-0.2318	-0.0835	0.1702
		Dif.	0.2438	0.1975	0.0924
6.550	0.975	Max.	-0.0046	0.0995	0.2780
		Min.	-0.2015	-0.1074	0.1767
		Dif.	0.1969	0.2069	0.1013
6.550	1.225	Max.	-0.0254	0.0756	0.2950
		Min.	-0.1778	-0.1469	0.1800
		Dif.	0.1524	0.2225	0.1150
6.550	1.475	Max.	-0.0540	0.0399	0.3079
		Min.	-0.1655	-0.2060	0.1766
		Dif.	0.1115	0.2459	0.1314
6.550	2.225	Max.	-0.1430	-0.0783	0.2879
		Min.	-0.2970	-0.3135	0.1664
		Dif.	0.1539	0.2351	0.1215
6.550	2.475	Max.	-0.1820	-0.1341	0.2586
		Min.	-0.3867	-0.3273	0.1602
		Dif.	0.2047	0.1932	0.0985
6.550	2.725	Max.	-0.2301	-0.1662	0.2270
		Min.	-0.4779	-0.3199	0.1476
		Dif.	0.2477	0.1538	0.0793
6.550	2.975	Max.	-0.2833	-0.1737	0.1952
		Min.	-0.5641	-0.2987	0.1321
		Dif.	0.2808	0.1251	0.0631
6.550	3.225	Max.	-0.3360	-0.1424	0.1664
		Min.	-0.6407	-0.2840	0.1162
		Dif.	0.3047	0.1416	0.0502
6.550	3.475	Max.	-0.3849	-0.1018	0.1413
		Min.	-0.7038	-0.2516	0.0999
		Dif.	0.3188	0.1499	0.0414
6.550	3.725	Max.	-0.4270	-0.0563	0.1185
		Min.	-0.7503	-0.2027	0.0846
		Dif.	0.3233	0.1463	0.0339
6.550	3.975	Max.	-0.4594	-0.0095	0.0984
		Min.	-0.7784	-0.1392	0.0706
		Dif.	0.3190	0.1297	0.0278
6.550	4.225	Max.	-0.4779	0.0384	0.0810
		Min.	-0.7890	-0.0667	0.0578
		Dif.	0.3111	0.1051	0.0232
6.550	4.475	Max.	-0.4729	0.1014	0.0666
		Min.	-0.7899	-0.0044	0.0453
		Dif.	0.3170	0.1058	0.0212
6.550	4.725	Max.	-0.4500	0.1733	0.0556
		Min.	-0.7753	0.0477	0.0327
		Dif.	0.3252	0.1255	0.0229
6.550	4.975	Max.	-0.4127	0.2378	0.0475
		Min.	-0.7425	0.1003	0.0198
		Dif.	0.3298	0.1375	0.0277



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.550	5.225	Max.	-0.3666	0.2920	0.0425
		Min.	-0.6885	0.1507	0.0061
		Dif.	0.3220	0.1413	0.0365
6.550	5.475	Max.	-0.3148	0.3341	0.0414
		Min.	-0.6139	0.1945	-0.0095
		Dif.	0.2991	0.1396	0.0508
6.550	5.725	Max.	-0.2594	0.3848	0.0448
		Min.	-0.5222	0.2051	-0.0280
		Dif.	0.2628	0.1797	0.0728
6.550	5.975	Max.	-0.2044	0.4304	0.0550
		Min.	-0.4161	0.1899	-0.0525
		Dif.	0.2117	0.2406	0.1075
6.550	6.225	Max.	-0.1542	0.4586	0.0806
		Min.	-0.2996	0.1542	-0.0917
		Dif.	0.1454	0.3044	0.1722
6.550	6.475	Max.	-0.1016	0.4658	0.1421
		Min.	-0.1930	0.1077	-0.1677
		Dif.	0.0913	0.3581	0.3098
6.550	6.725	Max.	-0.0427	0.4658	0.1411
		Min.	-0.1087	0.1077	-0.1666
		Dif.	0.0661	0.3581	0.3077
6.850	0.225	Max.	-0.0108	0.1236	0.2408
		Min.	-0.3659	-0.0677	0.1580
		Dif.	0.3551	0.1914	0.0828
6.850	0.475	Max.	-0.0274	0.1214	0.2500
		Min.	-0.3350	-0.0715	0.1635
		Dif.	0.3075	0.1929	0.0865
6.850	0.725	Max.	-0.0447	0.1141	0.2626
		Min.	-0.3050	-0.0836	0.1702
		Dif.	0.2603	0.1977	0.0924
6.850	0.975	Max.	-0.0641	0.0996	0.2780
		Min.	-0.2784	-0.1075	0.1767
		Dif.	0.2143	0.2071	0.1013
6.850	1.225	Max.	-0.0876	0.0757	0.2950
		Min.	-0.2581	-0.1471	0.1800
		Dif.	0.1705	0.2228	0.1150
6.850	1.475	Max.	-0.1170	0.0402	0.3079
		Min.	-0.2478	-0.2062	0.1766
		Dif.	0.1308	0.2463	0.1314
6.850	2.225	Max.	-0.2064	-0.0783	0.2879
		Min.	-0.3696	-0.3135	0.1664
		Dif.	0.1632	0.2352	0.1215
6.850	2.475	Max.	-0.2387	-0.1341	0.2586
		Min.	-0.4554	-0.3273	0.1602
		Dif.	0.2167	0.1932	0.0985
6.850	2.725	Max.	-0.2800	-0.1661	0.2270
		Min.	-0.5403	-0.3200	0.1476
		Dif.	0.2603	0.1539	0.0793
6.850	2.975	Max.	-0.3273	-0.1737	0.1952
		Min.	-0.6180	-0.2987	0.1321
		Dif.	0.2908	0.1251	0.0631
6.850	3.225	Max.	-0.3747	-0.1424	0.1664
		Min.	-0.6866	-0.2840	0.1162
		Dif.	0.3119	0.1416	0.0502
6.850	3.475	Max.	-0.4188	-0.1017	0.1413
		Min.	-0.7422	-0.2516	0.0999
		Dif.	0.3233	0.1499	0.0414



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.850	3.725	Max.	-0.4554	-0.0563	0.1185
		Min.	-0.7828	-0.2027	0.0846
		Dif.	0.3273	0.1464	0.0339
6.850	3.975	Max.	-0.4831	-0.0078	0.0984
		Min.	-0.8054	-0.1409	0.0706
		Dif.	0.3223	0.1331	0.0278
6.850	4.225	Max.	-0.4979	0.0384	0.0810
		Min.	-0.8106	-0.0667	0.0578
		Dif.	0.3127	0.1051	0.0232
6.850	4.475	Max.	-0.4891	0.1014	0.0666
		Min.	-0.8074	-0.0044	0.0453
		Dif.	0.3183	0.1058	0.0212
6.850	4.725	Max.	-0.4625	0.1733	0.0556
		Min.	-0.7893	0.0477	0.0327
		Dif.	0.3268	0.1255	0.0229
6.850	4.975	Max.	-0.4225	0.2378	0.0475
		Min.	-0.7528	0.1003	0.0198
		Dif.	0.3303	0.1375	0.0277
6.850	5.225	Max.	-0.3738	0.2920	0.0425
		Min.	-0.6958	0.1507	0.0061
		Dif.	0.3220	0.1413	0.0365
6.850	5.475	Max.	-0.3198	0.3341	0.0414
		Min.	-0.6185	0.1945	-0.0095
		Dif.	0.2987	0.1396	0.0508
6.850	5.725	Max.	-0.2623	0.3848	0.0448
		Min.	-0.5243	0.2050	-0.0280
		Dif.	0.2620	0.1798	0.0728
6.850	5.975	Max.	-0.2055	0.4307	0.0550
		Min.	-0.4159	0.1895	-0.0525
		Dif.	0.2103	0.2412	0.1075
6.850	6.225	Max.	-0.1494	0.4597	0.0806
		Min.	-0.3016	0.1531	-0.0917
		Dif.	0.1522	0.3066	0.1722
6.850	6.475	Max.	-0.0948	0.4658	0.1411
		Min.	-0.1926	0.1077	-0.1666
		Dif.	0.0978	0.3581	0.3077
6.850	6.725	Max.	-0.0399	0.4658	0.1438
		Min.	-0.1040	0.1077	-0.1693
		Dif.	0.0641	0.3581	0.3131
6.947	0.001	Max.	-0.0241	0.1313	0.3534
		Min.	-0.4331	-0.0636	0.2279
		Dif.	0.4090	0.1949	0.1255
6.947	0.225	Max.	-0.0384	0.1304	0.3534
		Min.	-0.4036	-0.0642	0.2279
		Dif.	0.3653	0.1946	0.1255
6.947	0.475	Max.	-0.0545	0.1257	0.3487
		Min.	-0.3714	-0.0671	0.2301
		Dif.	0.3168	0.1929	0.1186
6.947	0.725	Max.	-0.0719	0.1143	0.3496
		Min.	-0.3410	-0.0784	0.2311
		Dif.	0.2691	0.1928	0.1185
6.947	0.975	Max.	-0.0922	0.0990	0.3583
		Min.	-0.3150	-0.1033	0.2362
		Dif.	0.2228	0.2023	0.1221
6.947	1.225	Max.	-0.1171	0.0785	0.3719
		Min.	-0.2960	-0.1369	0.2422
		Dif.	0.1788	0.2154	0.1297



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.947	1.475	Max.	-0.1451	0.0519	0.3768
		Min.	-0.2888	-0.1817	0.2397
		Dif.	0.1437	0.2336	0.1371
6.947	1.690	Max.	-0.1719	-0.0057	0.3330
		Min.	-0.2889	-0.2674	0.1915
		Dif.	0.1170	0.2617	0.1415
6.947	1.990	Max.	-0.2144	-0.0057	0.3330
		Min.	-0.3281	-0.2674	0.1915
		Dif.	0.1137	0.2617	0.1415
6.947	2.225	Max.	-0.2365	-0.0886	0.3551
		Min.	-0.4047	-0.3233	0.2209
		Dif.	0.1682	0.2347	0.1342
6.947	2.475	Max.	-0.2660	-0.1296	0.3314
		Min.	-0.4883	-0.3305	0.2114
		Dif.	0.2223	0.2009	0.1201
6.947	2.725	Max.	-0.3040	-0.1563	0.2990
		Min.	-0.5709	-0.3161	0.1952
		Dif.	0.2669	0.1599	0.1039
6.947	2.975	Max.	-0.3488	-0.1616	0.2652
		Min.	-0.6451	-0.2949	0.1761
		Dif.	0.2963	0.1333	0.0891
6.947	3.225	Max.	-0.3939	-0.1314	0.2370
		Min.	-0.7114	-0.2800	0.1599
		Dif.	0.3174	0.1486	0.0771
6.947	3.475	Max.	-0.4364	-0.0894	0.2130
		Min.	-0.7646	-0.2456	0.1455
		Dif.	0.3281	0.1562	0.0675
6.947	3.725	Max.	-0.4712	-0.0436	0.1890
		Min.	-0.8032	-0.1959	0.1299
		Dif.	0.3320	0.1523	0.0591
6.947	3.975	Max.	-0.4973	0.0047	0.1703
		Min.	-0.8243	-0.1340	0.1168
		Dif.	0.3270	0.1387	0.0536
6.947	4.225	Max.	-0.5109	0.0518	0.1558
		Min.	-0.8280	-0.0572	0.1051
		Dif.	0.3171	0.1090	0.0507
6.947	4.475	Max.	-0.5009	0.1176	0.1409
		Min.	-0.8234	0.0042	0.0922
		Dif.	0.3225	0.1133	0.0487
6.947	4.725	Max.	-0.4735	0.1905	0.1307
		Min.	-0.8042	0.0567	0.0813
		Dif.	0.3307	0.1338	0.0494
6.947	4.975	Max.	-0.4330	0.2580	0.1244
		Min.	-0.7664	0.1107	0.0714
		Dif.	0.3334	0.1473	0.0530
6.947	5.225	Max.	-0.3837	0.3175	0.1172
		Min.	-0.7085	0.1589	0.0595
		Dif.	0.3248	0.1587	0.0578
6.947	5.475	Max.	-0.3297	0.3643	0.1155
		Min.	-0.6300	0.2009	0.0476
		Dif.	0.3004	0.1634	0.0679
6.947	5.725	Max.	-0.2721	0.4125	0.1179
		Min.	-0.5349	0.2187	0.0357
		Dif.	0.2628	0.1939	0.0821
6.947	5.975	Max.	-0.2145	0.4542	0.1198
		Min.	-0.4273	0.2102	0.0207
		Dif.	0.2128	0.2440	0.0990



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.947	6.225	Max.	-0.1574	0.4816	0.1216
		Min.	-0.3149	0.1799	0.0085
		Dif.	0.1575	0.3017	0.1130
6.947	6.475	Max.	-0.1058	0.4872	0.1110
		Min.	-0.2021	0.1458	-0.0018
		Dif.	0.0963	0.3414	0.1128
6.947	6.725	Max.	-0.0482	0.4800	0.0732
		Min.	-0.1052	0.1240	-0.0186
		Dif.	0.0570	0.3561	0.0918
6.947	6.750	Max.	-0.0429	0.4599	0.0263
		Min.	-0.0905	0.1036	-0.0597
		Dif.	0.0476	0.3563	0.0860
7.197	0.001	Max.	-0.0942	0.1401	0.4168
		Min.	-0.5299	-0.0614	0.2634
		Dif.	0.4357	0.2015	0.1534
7.197	0.225	Max.	-0.1079	0.1391	0.4168
		Min.	-0.4984	-0.0620	0.2634
		Dif.	0.3905	0.2011	0.1534
7.197	0.475	Max.	-0.1237	0.1345	0.4085
		Min.	-0.4642	-0.0653	0.2642
		Dif.	0.3404	0.1997	0.1443
7.197	0.725	Max.	-0.1407	0.1150	0.3936
		Min.	-0.4318	-0.0779	0.2621
		Dif.	0.2911	0.1929	0.1315
7.197	0.975	Max.	-0.1626	0.0920	0.3934
		Min.	-0.4070	-0.1093	0.2666
		Dif.	0.2444	0.2014	0.1268
7.197	1.225	Max.	-0.1874	0.0711	0.4001
		Min.	-0.3943	-0.1400	0.2778
		Dif.	0.2069	0.2111	0.1223
7.197	1.475	Max.	-0.2162	0.0466	0.4016
		Min.	-0.3892	-0.1794	0.2796
		Dif.	0.1730	0.2260	0.1220
7.197	1.690	Max.	-0.2442	-0.0070	0.3520
		Min.	-0.3916	-0.2508	0.2379
		Dif.	0.1474	0.2438	0.1141
7.197	1.990	Max.	-0.2860	-0.0070	0.3521
		Min.	-0.4270	-0.2508	0.2379
		Dif.	0.1409	0.2438	0.1142
7.197	2.225	Max.	-0.3086	-0.0734	0.3764
		Min.	-0.4921	-0.3050	0.2541
		Dif.	0.1835	0.2316	0.1224
7.197	2.475	Max.	-0.3330	-0.1077	0.3554
		Min.	-0.5695	-0.3109	0.2374
		Dif.	0.2365	0.2032	0.1180
7.197	2.725	Max.	-0.3656	-0.1299	0.3233
		Min.	-0.6446	-0.2908	0.2176
		Dif.	0.2789	0.1609	0.1057
7.197	2.975	Max.	-0.4023	-0.1404	0.2948
		Min.	-0.7125	-0.2748	0.1968
		Dif.	0.3102	0.1344	0.0980
7.197	3.225	Max.	-0.4422	-0.1174	0.2710
		Min.	-0.7735	-0.2629	0.1813
		Dif.	0.3314	0.1455	0.0896
7.197	3.475	Max.	-0.4804	-0.0728	0.2552
		Min.	-0.8228	-0.2243	0.1706
		Dif.	0.3425	0.1515	0.0845



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.197	3.725	Max.	-0.5109	-0.0297	0.2263
		Min.	-0.8548	-0.1780	0.1531
		Dif.	0.3438	0.1483	0.0732
7.197	3.975	Max.	-0.5333	0.0148	0.2089
		Min.	-0.8721	-0.1217	0.1419
		Dif.	0.3388	0.1365	0.0670
7.197	4.225	Max.	-0.5443	0.0632	0.2045
		Min.	-0.8735	-0.0412	0.1365
		Dif.	0.3292	0.1044	0.0681
7.197	4.475	Max.	-0.5310	0.1303	0.1823
		Min.	-0.8640	0.0156	0.1185
		Dif.	0.3331	0.1147	0.0639
7.197	4.725	Max.	-0.5017	0.1978	0.1739
		Min.	-0.8419	0.0647	0.1087
		Dif.	0.3402	0.1331	0.0651
7.197	4.975	Max.	-0.4609	0.2698	0.1802
		Min.	-0.8023	0.1193	0.1071
		Dif.	0.3414	0.1505	0.0731
7.197	5.225	Max.	-0.4093	0.3312	0.1610
		Min.	-0.7405	0.1652	0.0891
		Dif.	0.3312	0.1661	0.0719
7.197	5.475	Max.	-0.3547	0.3758	0.1564
		Min.	-0.6595	0.2011	0.0810
		Dif.	0.3048	0.1747	0.0754
7.197	5.725	Max.	-0.2968	0.4282	0.1637
		Min.	-0.5643	0.2223	0.0846
		Dif.	0.2675	0.2059	0.0790
7.197	5.975	Max.	-0.2331	0.4689	0.1451
		Min.	-0.4575	0.2159	0.0638
		Dif.	0.2244	0.2530	0.0812
7.197	6.225	Max.	-0.1744	0.4891	0.1292
		Min.	-0.3434	0.1936	0.0568
		Dif.	0.1691	0.2955	0.0724
7.197	6.475	Max.	-0.1189	0.5049	0.1070
		Min.	-0.2293	0.1737	0.0602
		Dif.	0.1104	0.3311	0.0468
7.197	6.725	Max.	-0.0575	0.5022	0.0700
		Min.	-0.1258	0.1493	0.0351
		Dif.	0.0683	0.3529	0.0349
7.197	6.750	Max.	-0.0547	0.5132	0.0406
		Min.	-0.1186	0.1571	0.0070
		Dif.	0.0638	0.3561	0.0336
7.447	0.001	Max.	-0.1693	0.1510	0.4232
		Min.	-0.6342	-0.0576	0.2603
		Dif.	0.4649	0.2087	0.1629
7.447	0.225	Max.	-0.1822	0.1501	0.4232
		Min.	-0.6003	-0.0582	0.2603
		Dif.	0.4181	0.2083	0.1629
7.447	0.475	Max.	-0.1970	0.1467	0.4125
		Min.	-0.5633	-0.0606	0.2589
		Dif.	0.3663	0.2073	0.1536
7.447	0.725	Max.	-0.2139	0.1273	0.3964
		Min.	-0.5309	-0.0732	0.2580
		Dif.	0.3169	0.2005	0.1384
7.447	0.975	Max.	-0.2360	0.0792	0.3770
		Min.	-0.5051	-0.1185	0.2590
		Dif.	0.2691	0.1977	0.1180



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.447	1.225	Max.	-0.2607	0.0584	0.3840
		Min.	-0.4924	-0.1492	0.2699
		Dif.	0.2317	0.2076	0.1141
7.447	1.475	Max.	-0.2915	0.0376	0.3776
		Min.	-0.4896	-0.1802	0.2747
		Dif.	0.1981	0.2178	0.1029
7.447	1.690	Max.	-0.3210	-0.0053	0.3230
		Min.	-0.4937	-0.2354	0.2406
		Dif.	0.1727	0.2301	0.0824
7.447	1.990	Max.	-0.3611	-0.0053	0.3230
		Min.	-0.5255	-0.2354	0.2406
		Dif.	0.1644	0.2301	0.0824
7.447	2.225	Max.	-0.3809	-0.0564	0.3475
		Min.	-0.5815	-0.2779	0.2511
		Dif.	0.2006	0.2214	0.0964
7.447	2.475	Max.	-0.4004	-0.0857	0.3318
		Min.	-0.6515	-0.2867	0.2320
		Dif.	0.2511	0.2010	0.0997
7.447	2.725	Max.	-0.4261	-0.1061	0.3126
		Min.	-0.7214	-0.2810	0.2146
		Dif.	0.2953	0.1750	0.0980
7.447	2.975	Max.	-0.4632	-0.1220	0.2841
		Min.	-0.7888	-0.2597	0.1940
		Dif.	0.3256	0.1376	0.0901
7.447	3.225	Max.	-0.4876	-0.1083	0.2662
		Min.	-0.8344	-0.2498	0.1773
		Dif.	0.3468	0.1415	0.0889
7.447	3.475	Max.	-0.5257	-0.0637	0.2508
		Min.	-0.8837	-0.2114	0.1661
		Dif.	0.3580	0.1476	0.0847
7.447	3.725	Max.	-0.5567	-0.0205	0.2219
		Min.	-0.9152	-0.1651	0.1487
		Dif.	0.3585	0.1446	0.0732
7.447	3.975	Max.	-0.5687	0.0196	0.2122
		Min.	-0.9236	-0.1119	0.1440
		Dif.	0.3549	0.1316	0.0682
7.447	4.225	Max.	-0.5800	0.0681	0.2080
		Min.	-0.9246	-0.0314	0.1385
		Dif.	0.3446	0.0995	0.0695
7.447	4.475	Max.	-0.5667	0.1364	0.1858
		Min.	-0.9151	0.0241	0.1205
		Dif.	0.3484	0.1123	0.0653
7.447	4.725	Max.	-0.5342	0.2014	0.1843
		Min.	-0.8841	0.0709	0.1141
		Dif.	0.3499	0.1304	0.0702
7.447	4.975	Max.	-0.4935	0.2728	0.1913
		Min.	-0.8444	0.1262	0.1119
		Dif.	0.3509	0.1466	0.0793
7.447	5.225	Max.	-0.4418	0.3340	0.1704
		Min.	-0.7826	0.1722	0.0957
		Dif.	0.3408	0.1618	0.0747
7.447	5.475	Max.	-0.3852	0.3815	0.1670
		Min.	-0.6945	0.2102	0.0903
		Dif.	0.3092	0.1713	0.0768
7.447	5.725	Max.	-0.3267	0.4355	0.1786
		Min.	-0.5998	0.2299	0.0896
		Dif.	0.2731	0.2056	0.0890



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.447	5.975	Max.	-0.2630	0.4761	0.1522
		Min.	-0.4931	0.2235	0.0765
		Dif.	0.2301	0.2526	0.0758
7.447	6.225	Max.	-0.1952	0.5181	0.1199
		Min.	-0.3663	0.2126	0.0641
		Dif.	0.1711	0.3055	0.0558
7.447	6.475	Max.	-0.1386	0.5336	0.1113
		Min.	-0.2531	0.1930	0.0539
		Dif.	0.1144	0.3405	0.0574
7.447	6.725	Max.	-0.0686	0.5331	0.0648
		Min.	-0.1405	0.1794	0.0412
		Dif.	0.0719	0.3537	0.0236
7.447	6.750	Max.	-0.0582	0.5132	0.0406
		Min.	-0.1270	0.1571	0.0070
		Dif.	0.0688	0.3561	0.0336
7.697	0.001	Max.	-0.2405	0.1643	0.3878
		Min.	-0.7338	-0.0519	0.2277
		Dif.	0.4933	0.2162	0.1601
7.697	0.225	Max.	-0.2521	0.1633	0.3878
		Min.	-0.6970	-0.0525	0.2277
		Dif.	0.4448	0.2159	0.1601
7.697	0.475	Max.	-0.2658	0.1570	0.3746
		Min.	-0.6570	-0.0571	0.2244
		Dif.	0.3912	0.2141	0.1502
7.697	0.725	Max.	-0.2820	0.1312	0.3549
		Min.	-0.6194	-0.0753	0.2171
		Dif.	0.3374	0.2065	0.1378
7.697	0.975	Max.	-0.3063	0.0809	0.3498
		Min.	-0.5997	-0.1080	0.2287
		Dif.	0.2934	0.1888	0.1211
7.697	1.225	Max.	-0.3286	0.0564	0.3302
		Min.	-0.5798	-0.1417	0.2212
		Dif.	0.2512	0.1981	0.1090
7.697	1.475	Max.	-0.3603	0.0306	0.3171
		Min.	-0.5772	-0.1786	0.2198
		Dif.	0.2169	0.2092	0.0973
7.697	1.690	Max.	-0.3921	-0.0018	0.2598
		Min.	-0.5828	-0.2218	0.1893
		Dif.	0.1907	0.2200	0.0705
7.697	1.990	Max.	-0.4298	-0.0018	0.2598
		Min.	-0.6120	-0.2218	0.1893
		Dif.	0.1822	0.2200	0.0705
7.697	2.225	Max.	-0.4443	-0.0416	0.2815
		Min.	-0.6612	-0.2516	0.2048
		Dif.	0.2169	0.2100	0.0767
7.697	2.475	Max.	-0.4593	-0.0708	0.2706
		Min.	-0.7250	-0.2654	0.1923
		Dif.	0.2656	0.1946	0.0783
7.697	2.725	Max.	-0.4815	-0.0932	0.2609
		Min.	-0.7903	-0.2658	0.1796
		Dif.	0.3088	0.1726	0.0813
7.697	2.975	Max.	-0.5077	-0.0992	0.2562
		Min.	-0.8473	-0.2391	0.1748
		Dif.	0.3396	0.1399	0.0814
7.697	3.225	Max.	-0.5435	-0.0866	0.2261
		Min.	-0.9043	-0.2228	0.1511
		Dif.	0.3607	0.1362	0.0750



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.697	3.475	Max.	-0.5697	-0.0546	0.2214
		Min.	-0.9432	-0.1984	0.1462
		Dif.	0.3735	0.1438	0.0752
7.697	3.725	Max.	-0.5916	-0.0112	0.2143
		Min.	-0.9676	-0.1489	0.1431
		Dif.	0.3760	0.1377	0.0712
7.697	3.975	Max.	-0.6120	0.0297	0.1938
		Min.	-0.9821	-0.0916	0.1302
		Dif.	0.3701	0.1212	0.0636
7.697	4.225	Max.	-0.6152	0.0729	0.1889
		Min.	-0.9768	-0.0217	0.1249
		Dif.	0.3616	0.0946	0.0640
7.697	4.475	Max.	-0.5990	0.1441	0.1866
		Min.	-0.9605	0.0336	0.1179
		Dif.	0.3616	0.1106	0.0687
7.697	4.725	Max.	-0.5700	0.2084	0.1807
		Min.	-0.9355	0.0818	0.1069
		Dif.	0.3655	0.1266	0.0738
7.697	4.975	Max.	-0.5273	0.2754	0.1785
		Min.	-0.8882	0.1334	0.0999
		Dif.	0.3609	0.1420	0.0786
7.697	5.225	Max.	-0.4756	0.3386	0.1757
		Min.	-0.8211	0.1823	0.0918
		Dif.	0.3455	0.1563	0.0839
7.697	5.475	Max.	-0.4210	0.3855	0.1729
		Min.	-0.7388	0.2149	0.0833
		Dif.	0.3178	0.1706	0.0896
7.697	5.725	Max.	-0.3604	0.4429	0.1701
		Min.	-0.6353	0.2374	0.0752
		Dif.	0.2749	0.2055	0.0949
7.697	5.975	Max.	-0.2946	0.4984	0.1568
		Min.	-0.5188	0.2471	0.0666
		Dif.	0.2243	0.2513	0.0902
7.697	6.225	Max.	-0.2335	0.5304	0.1226
		Min.	-0.4013	0.2253	0.0479
		Dif.	0.1678	0.3051	0.0747
7.697	6.475	Max.	-0.1610	0.5549	0.1114
		Min.	-0.2725	0.2155	0.0371
		Dif.	0.1115	0.3394	0.0743
7.697	6.725	Max.	-0.0837	0.5591	0.0774
		Min.	-0.1563	0.2057	0.0254
		Dif.	0.0727	0.3534	0.0520
7.697	6.750	Max.	-0.0751	0.5560	0.0372
		Min.	-0.1447	0.1991	0.0128
		Dif.	0.0695	0.3569	0.0244
7.947	0.001	Max.	-0.3025	0.1829	0.3230
		Min.	-0.8208	-0.0420	0.1777
		Dif.	0.5183	0.2249	0.1452
7.947	0.225	Max.	-0.3119	0.1820	0.3230
		Min.	-0.7797	-0.0426	0.1777
		Dif.	0.4679	0.2246	0.1452
7.947	0.475	Max.	-0.3234	0.1634	0.2986
		Min.	-0.7355	-0.0563	0.1676
		Dif.	0.4121	0.2196	0.1310
7.947	0.725	Max.	-0.3396	0.1376	0.2789
		Min.	-0.6978	-0.0746	0.1602
		Dif.	0.3582	0.2122	0.1187



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.947	0.975	Max.	-0.3601	0.1099	0.2592
		Min.	-0.6664	-0.0916	0.1528
		Dif.	0.3063	0.2015	0.1064
7.947	1.225	Max.	-0.3826	0.0726	0.2406
		Min.	-0.6465	-0.1119	0.1442
		Dif.	0.2639	0.1845	0.0964
7.947	1.475	Max.	-0.4133	0.0286	0.2186
		Min.	-0.6409	-0.1709	0.1334
		Dif.	0.2277	0.1995	0.0852
7.947	1.690	Max.	-0.4472	0.0039	0.1542
		Min.	-0.6483	-0.2100	0.0934
		Dif.	0.2010	0.2139	0.0608
7.947	1.990	Max.	-0.4826	0.0039	0.1543
		Min.	-0.6746	-0.2100	0.0933
		Dif.	0.1920	0.2139	0.0610
7.947	2.225	Max.	-0.4903	-0.0313	0.1869
		Min.	-0.7199	-0.2334	0.1211
		Dif.	0.2296	0.2021	0.0659
7.947	2.475	Max.	-0.5027	-0.0644	0.1825
		Min.	-0.7802	-0.2519	0.1210
		Dif.	0.2775	0.1875	0.0615
7.947	2.725	Max.	-0.5231	-0.0930	0.1761
		Min.	-0.8433	-0.2492	0.1170
		Dif.	0.3202	0.1562	0.0590
7.947	2.975	Max.	-0.5496	-0.0949	0.1705
		Min.	-0.9001	-0.2264	0.1131
		Dif.	0.3506	0.1315	0.0574
7.947	3.225	Max.	-0.5773	-0.0774	0.1649
		Min.	-0.9505	-0.2099	0.1091
		Dif.	0.3731	0.1326	0.0559
7.947	3.475	Max.	-0.6035	-0.0455	0.1594
		Min.	-0.9894	-0.1854	0.1050
		Dif.	0.3860	0.1399	0.0544
7.947	3.725	Max.	-0.6253	-0.0020	0.1528
		Min.	-1.0139	-0.1360	0.1014
		Dif.	0.3886	0.1340	0.0514
7.947	3.975	Max.	-0.6394	0.0346	0.1468
		Min.	-1.0240	-0.0818	0.0972
		Dif.	0.3846	0.1164	0.0497
7.947	4.225	Max.	-0.6428	0.0778	0.1423
		Min.	-1.0185	-0.0119	0.0915
		Dif.	0.3757	0.0898	0.0508
7.947	4.475	Max.	-0.6270	0.1490	0.1400
		Min.	-1.0018	0.0433	0.0845
		Dif.	0.3748	0.1056	0.0555
7.947	4.725	Max.	-0.5968	0.2120	0.1379
		Min.	-0.9701	0.0880	0.0774
		Dif.	0.3733	0.1240	0.0605
7.947	4.975	Max.	-0.5540	0.2786	0.1359
		Min.	-0.9230	0.1401	0.0703
		Dif.	0.3690	0.1385	0.0656
7.947	5.225	Max.	-0.5032	0.3414	0.1332
		Min.	-0.8549	0.1893	0.0621
		Dif.	0.3517	0.1520	0.0710
7.947	5.475	Max.	-0.4456	0.3912	0.1304
		Min.	-0.7675	0.2240	0.0539
		Dif.	0.3219	0.1672	0.0765



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.947	5.725	Max.	-0.3850	0.4503	0.1278
		Min.	-0.6639	0.2449	0.0457
		Dif.	0.2789	0.2053	0.0820
7.947	5.975	Max.	-0.3220	0.5078	0.1152
		Min.	-0.5445	0.2526	0.0363
		Dif.	0.2225	0.2552	0.0789
7.947	6.225	Max.	-0.2539	0.5455	0.1039
		Min.	-0.4153	0.2501	0.0257
		Dif.	0.1614	0.2954	0.0781
7.947	6.475	Max.	-0.1823	0.5688	0.0928
		Min.	-0.2856	0.2414	0.0149
		Dif.	0.1032	0.3274	0.0778
7.947	6.725	Max.	-0.0973	0.5807	0.0614
		Min.	-0.1670	0.2269	0.0011
		Dif.	0.0697	0.3537	0.0603
7.947	6.750	Max.	-0.0896	0.5865	0.0312
		Min.	-0.1562	0.2283	-0.0149
		Dif.	0.0667	0.3583	0.0461
8.197	0.001	Max.	-0.3525	0.2101	0.2418
		Min.	-0.8918	-0.0246	0.1171
		Dif.	0.5393	0.2348	0.1247
8.197	0.225	Max.	-0.3580	0.2092	0.2418
		Min.	-0.8446	-0.0252	0.1171
		Dif.	0.4866	0.2344	0.1247
8.197	0.475	Max.	-0.3649	0.2019	0.2161
		Min.	-0.7931	-0.0304	0.1040
		Dif.	0.4282	0.2323	0.1121
8.197	0.725	Max.	-0.3811	0.1764	0.1964
		Min.	-0.7555	-0.0489	0.0965
		Dif.	0.3743	0.2253	0.0998
8.197	0.975	Max.	-0.3900	0.1062	0.1345
		Min.	-0.7054	-0.0902	0.0562
		Dif.	0.3154	0.1964	0.0784
8.197	1.225	Max.	-0.4154	0.0690	0.1167
		Min.	-0.6826	-0.1106	0.0469
		Dif.	0.2672	0.1796	0.0697
8.197	1.475	Max.	-0.4439	0.0358	0.0993
		Min.	-0.6736	-0.1530	0.0375
		Dif.	0.2297	0.1889	0.0618
8.197	1.690	Max.	-0.4735	0.0114	0.0667
		Min.	-0.6759	-0.2028	0.0201
		Dif.	0.2024	0.2141	0.0466
8.197	1.990	Max.	-0.5069	0.0114	0.0667
		Min.	-0.6997	-0.2028	0.0201
		Dif.	0.1928	0.2141	0.0466
8.197	2.225	Max.	-0.5138	-0.0326	0.0797
		Min.	-0.7500	-0.2328	0.0311
		Dif.	0.2363	0.2002	0.0486
8.197	2.475	Max.	-0.5264	-0.0654	0.0818
		Min.	-0.8102	-0.2492	0.0370
		Dif.	0.2838	0.1838	0.0448
8.197	2.725	Max.	-0.5464	-0.0887	0.0830
		Min.	-0.8728	-0.2543	0.0424
		Dif.	0.3264	0.1656	0.0406
8.197	2.975	Max.	-0.5724	-0.0952	0.0771
		Min.	-0.9300	-0.2270	0.0387
		Dif.	0.3576	0.1317	0.0384



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.197	3.225	Max.	-0.5982	-0.0798	0.0896
		Min.	-0.9797	-0.2123	0.0563
		Dif.	0.3815	0.1325	0.0333
8.197	3.475	Max.	-0.6244	-0.0477	0.0841
		Min.	-1.0187	-0.1880	0.0522
		Dif.	0.3944	0.1403	0.0319
8.197	3.725	Max.	-0.6461	-0.0041	0.0783
		Min.	-1.0432	-0.1386	0.0478
		Dif.	0.3971	0.1345	0.0305
8.197	3.975	Max.	-0.6571	0.0355	0.0838
		Min.	-1.0518	-0.0799	0.0553
		Dif.	0.3946	0.1154	0.0285
8.197	4.225	Max.	-0.6606	0.0787	0.0792
		Min.	-1.0461	-0.0100	0.0497
		Dif.	0.3855	0.0888	0.0295
8.197	4.475	Max.	-0.6454	0.1505	0.0772
		Min.	-1.0289	0.0447	0.0425
		Dif.	0.3836	0.1058	0.0346
8.197	4.725	Max.	-0.6130	0.2154	0.0792
		Min.	-0.9936	0.0905	0.0407
		Dif.	0.3806	0.1248	0.0385
8.197	4.975	Max.	-0.5713	0.2819	0.0772
		Min.	-0.9454	0.1426	0.0335
		Dif.	0.3741	0.1393	0.0436
8.197	5.225	Max.	-0.5196	0.3418	0.0745
		Min.	-0.8781	0.1947	0.0253
		Dif.	0.3585	0.1472	0.0491
8.197	5.475	Max.	-0.4604	0.3903	0.0803
		Min.	-0.7851	0.2327	0.0165
		Dif.	0.3247	0.1576	0.0639
8.197	5.725	Max.	-0.3998	0.4522	0.0781
		Min.	-0.6815	0.2509	0.0078
		Dif.	0.2817	0.2013	0.0704
8.197	5.975	Max.	-0.3371	0.5119	0.0668
		Min.	-0.5618	0.2565	-0.0028
		Dif.	0.2247	0.2554	0.0695
8.197	6.225	Max.	-0.2665	0.5635	0.0685
		Min.	-0.4207	0.2572	-0.0051
		Dif.	0.1542	0.3063	0.0736
8.197	6.475	Max.	-0.1969	0.5878	0.0574
		Min.	-0.2890	0.2477	-0.0159
		Dif.	0.0921	0.3401	0.0733
8.197	6.725	Max.	-0.1041	0.5953	0.0422
		Min.	-0.1702	0.2403	-0.0187
		Dif.	0.0661	0.3550	0.0609
8.197	6.750	Max.	-0.0934	0.5865	0.0312
		Min.	-0.1564	0.2283	-0.0149
		Dif.	0.0629	0.3583	0.0461
8.447	0.001	Max.	-0.3867	0.2425	0.1465
		Min.	-0.9416	-0.0034	0.0490
		Dif.	0.5550	0.2458	0.0974
8.447	0.225	Max.	-0.3874	0.2415	0.1465
		Min.	-0.8872	-0.0040	0.0490
		Dif.	0.4998	0.2455	0.0974
8.447	0.475	Max.	-0.3890	0.2353	0.1169
		Min.	-0.8278	-0.0084	0.0329
		Dif.	0.4388	0.2437	0.0841



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.447	0.725	Max.	-0.3880	0.2120	0.0744
		Min.	-0.7641	-0.0246	0.0064
		Dif.	0.3761	0.2366	0.0680
8.447	0.975	Max.	-0.4119	0.1470	0.0362
		Min.	-0.7362	-0.0637	-0.0168
		Dif.	0.3244	0.2107	0.0529
8.447	1.225	Max.	-0.4216	0.0944	-0.0036
		Min.	-0.6903	-0.0931	-0.0464
		Dif.	0.2687	0.1875	0.0427
8.447	1.475	Max.	-0.4491	0.0442	-0.0162
		Min.	-0.6741	-0.1371	-0.0667
		Dif.	0.2250	0.1813	0.0505
8.447	1.690	Max.	-0.4802	0.0077	0.0025
		Min.	-0.6739	-0.2001	-0.0369
		Dif.	0.1937	0.2079	0.0394
8.447	1.990	Max.	-0.5111	0.0102	0.0025
		Min.	-0.7004	-0.2027	-0.0369
		Dif.	0.1893	0.2129	0.0394
8.447	2.225	Max.	-0.5148	-0.0363	-0.0214
		Min.	-0.7515	-0.2375	-0.0661
		Dif.	0.2367	0.2012	0.0448
8.447	2.475	Max.	-0.5287	-0.0731	-0.0160
		Min.	-0.8138	-0.2579	-0.0526
		Dif.	0.2850	0.1848	0.0366
8.447	2.725	Max.	-0.5505	-0.0981	-0.0084
		Min.	-0.8789	-0.2613	-0.0347
		Dif.	0.3284	0.1632	0.0263
8.447	2.975	Max.	-0.5809	-0.1002	0.0014
		Min.	-0.9429	-0.2304	-0.0175
		Dif.	0.3620	0.1302	0.0188
8.447	3.225	Max.	-0.6040	-0.0883	0.0037
		Min.	-0.9884	-0.2240	-0.0105
		Dif.	0.3844	0.1357	0.0142
8.447	3.475	Max.	-0.6322	-0.0499	0.0160
		Min.	-1.0308	-0.1905	0.0042
		Dif.	0.3986	0.1407	0.0119
8.447	3.725	Max.	-0.6549	-0.0027	0.0204
		Min.	-1.0568	-0.1357	0.0103
		Dif.	0.4019	0.1330	0.0101
8.447	3.975	Max.	-0.6659	0.0335	0.0162
		Min.	-1.0650	-0.0819	0.0050
		Dif.	0.3991	0.1154	0.0112
8.447	4.225	Max.	-0.6686	0.0797	0.0207
		Min.	-1.0588	-0.0081	0.0111
		Dif.	0.3903	0.0878	0.0097
8.447	4.475	Max.	-0.6529	0.1545	0.0218
		Min.	-1.0394	0.0477	0.0101
		Dif.	0.3865	0.1068	0.0117
8.447	4.725	Max.	-0.6221	0.2174	0.0205
		Min.	-1.0057	0.0923	0.0015
		Dif.	0.3836	0.1251	0.0189
8.447	4.975	Max.	-0.5788	0.2852	0.0219
		Min.	-0.9550	0.1451	0.0003
		Dif.	0.3761	0.1402	0.0217
8.447	5.225	Max.	-0.5256	0.3454	0.0262
		Min.	-0.8846	0.1993	-0.0062
		Dif.	0.3590	0.1461	0.0324



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.447	5.475	Max.	-0.4681	0.3904	0.0254
		Min.	-0.7948	0.2386	-0.0178
		Dif.	0.3267	0.1518	0.0432
8.447	5.725	Max.	-0.4050	0.4564	0.0297
		Min.	-0.6882	0.2547	-0.0244
		Dif.	0.2832	0.2017	0.0540
8.447	5.975	Max.	-0.3380	0.5184	0.0372
		Min.	-0.5660	0.2629	-0.0264
		Dif.	0.2280	0.2556	0.0636
8.447	6.225	Max.	-0.2699	0.5679	0.0226
		Min.	-0.4289	0.2615	-0.0430
		Dif.	0.1590	0.3064	0.0656
8.447	6.475	Max.	-0.1969	0.5935	0.0284
		Min.	-0.2925	0.2526	-0.0434
		Dif.	0.0956	0.3409	0.0719
8.447	6.725	Max.	-0.1046	0.6013	0.0216
		Min.	-0.1708	0.2447	-0.0428
		Dif.	0.0662	0.3566	0.0644
8.447	6.750	Max.	-0.0947	0.5971	0.0097
		Min.	-0.1579	0.2365	-0.0453
		Dif.	0.0632	0.3606	0.0550
8.697	0.001	Max.	-0.4041	0.2810	0.0525
		Min.	-0.9690	0.0230	-0.0159
		Dif.	0.5649	0.2580	0.0684
8.697	0.225	Max.	-0.3989	0.2801	0.0525
		Min.	-0.9060	0.0223	-0.0159
		Dif.	0.5071	0.2577	0.0684
8.697	0.475	Max.	-0.3938	0.2652	0.0077
		Min.	-0.8367	0.0113	-0.0422
		Dif.	0.4429	0.2539	0.0498
8.697	0.725	Max.	-0.3928	0.2421	-0.0333
		Min.	-0.7731	-0.0049	-0.0704
		Dif.	0.3803	0.2469	0.0371
8.697	0.975	Max.	-0.3957	0.2088	-0.0607
		Min.	-0.7151	-0.0250	-0.1120
		Dif.	0.3194	0.2338	0.0512
8.697	1.225	Max.	-0.4055	0.1564	-0.0881
		Min.	-0.6692	-0.0546	-0.1536
		Dif.	0.2638	0.2110	0.0655
8.697	1.475	Max.	-0.4264	0.0645	-0.1120
		Min.	-0.6429	-0.1083	-0.1900
		Dif.	0.2164	0.1728	0.0780
8.697	1.690	Max.	-0.4530	0.0038	-0.1030
		Min.	-0.6353	-0.2010	-0.1733
		Dif.	0.1823	0.2048	0.0703
8.697	1.990	Max.	-0.4820	0.0060	-0.1030
		Min.	-0.6653	-0.2032	-0.1733
		Dif.	0.1834	0.2092	0.0703
8.697	2.225	Max.	-0.4919	-0.0535	-0.1099
		Min.	-0.7229	-0.2611	-0.1798
		Dif.	0.2310	0.2076	0.0699
8.697	2.475	Max.	-0.5101	-0.0904	-0.0940
		Min.	-0.7916	-0.2812	-0.1518
		Dif.	0.2815	0.1908	0.0578
8.697	2.725	Max.	-0.5361	-0.1184	-0.0762
		Min.	-0.8629	-0.2716	-0.1205
		Dif.	0.3268	0.1532	0.0444



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.697	2.975	Max.	-0.5669	-0.1188	-0.0660
		Min.	-0.9264	-0.2424	-0.1037
		Dif.	0.3595	0.1235	0.0377
8.697	3.225	Max.	-0.5982	-0.0906	-0.0557
		Min.	-0.9823	-0.2265	-0.0869
		Dif.	0.3841	0.1359	0.0312
8.697	3.475	Max.	-0.6265	-0.0521	-0.0454
		Min.	-1.0248	-0.1931	-0.0702
		Dif.	0.3983	0.1409	0.0248
8.697	3.725	Max.	-0.6492	-0.0049	-0.0414
		Min.	-1.0507	-0.1383	-0.0637
		Dif.	0.4016	0.1334	0.0222
8.697	3.975	Max.	-0.6631	0.0345	-0.0374
		Min.	-1.0614	-0.0800	-0.0572
		Dif.	0.3983	0.1145	0.0198
8.697	4.225	Max.	-0.6659	0.0806	-0.0323
		Min.	-1.0551	-0.0063	-0.0517
		Dif.	0.3892	0.0869	0.0194
8.697	4.475	Max.	-0.6505	0.1560	-0.0310
		Min.	-1.0354	0.0490	-0.0529
		Dif.	0.3848	0.1071	0.0219
8.697	4.725	Max.	-0.6183	0.2208	-0.0286
		Min.	-1.0020	0.0947	-0.0551
		Dif.	0.3837	0.1261	0.0265
8.697	4.975	Max.	-0.5748	0.2886	-0.0261
		Min.	-0.9515	0.1475	-0.0575
		Dif.	0.3767	0.1411	0.0314
8.697	5.225	Max.	-0.5209	0.3500	-0.0226
		Min.	-0.8817	0.2005	-0.0633
		Dif.	0.3608	0.1496	0.0407
8.697	5.475	Max.	-0.4605	0.3984	-0.0182
		Min.	-0.7919	0.2386	-0.0700
		Dif.	0.3314	0.1598	0.0518
8.697	5.725	Max.	-0.3962	0.4609	-0.0138
		Min.	-0.6864	0.2581	-0.0768
		Dif.	0.2902	0.2027	0.0629
8.697	5.975	Max.	-0.3288	0.5229	-0.0081
		Min.	-0.5647	0.2664	-0.0771
		Dif.	0.2358	0.2565	0.0690
8.697	6.225	Max.	-0.2594	0.5615	-0.0020
		Min.	-0.4290	0.2661	-0.0779
		Dif.	0.1696	0.2954	0.0759
8.697	6.475	Max.	-0.1845	0.5871	0.0034
		Min.	-0.2944	0.2573	-0.0779
		Dif.	0.1099	0.3298	0.0813
8.697	6.725	Max.	-0.0987	0.6013	0.0056
		Min.	-0.1670	0.2406	-0.0640
		Dif.	0.0683	0.3607	0.0696
8.697	6.750	Max.	-0.0901	0.5987	0.0097
		Min.	-0.1537	0.2349	-0.0453
		Dif.	0.0636	0.3638	0.0550
8.947	0.001	Max.	-0.4073	0.3238	-0.0236
		Min.	-0.9773	0.0536	-0.0674
		Dif.	0.5700	0.2702	0.0438
8.947	0.225	Max.	-0.3952	0.3229	-0.0236
		Min.	-0.9046	0.0530	-0.0674
		Dif.	0.5094	0.2699	0.0438



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.947	0.475	Max.	-0.3821	0.3172	-0.0543
		Min.	-0.8242	0.0489	-0.0954
		Dif.	0.4421	0.2683	0.0411
8.947	0.725	Max.	-0.3811	0.2942	-0.0837
		Min.	-0.7606	0.0327	-0.1349
		Dif.	0.3795	0.2615	0.0512
8.947	0.975	Max.	-0.3565	0.2179	-0.1503
		Min.	-0.6637	-0.0138	-0.2223
		Dif.	0.3071	0.2317	0.0720
8.947	1.225	Max.	-0.3663	0.1656	-0.1777
		Min.	-0.6178	-0.0435	-0.2639
		Dif.	0.2516	0.2091	0.0863
8.947	1.475	Max.	-0.3812	0.0920	-0.1948
		Min.	-0.5835	-0.0845	-0.2899
		Dif.	0.2022	0.1765	0.0951
8.947	1.690	Max.	-0.4020	-0.0002	-0.1805
		Min.	-0.5680	-0.2080	-0.2649
		Dif.	0.1660	0.2077	0.0845
8.947	1.990	Max.	-0.4276	-0.0002	-0.1805
		Min.	-0.6048	-0.2080	-0.2649
		Dif.	0.1772	0.2077	0.0845
8.947	2.225	Max.	-0.4459	-0.0781	-0.1795
		Min.	-0.6708	-0.2959	-0.2631
		Dif.	0.2249	0.2178	0.0836
8.947	2.475	Max.	-0.4731	-0.1138	-0.1573
		Min.	-0.7463	-0.3139	-0.2293
		Dif.	0.2733	0.2001	0.0720
8.947	2.725	Max.	-0.5046	-0.1323	-0.1358
		Min.	-0.8250	-0.3075	-0.2001
		Dif.	0.3204	0.1752	0.0643
8.947	2.975	Max.	-0.5343	-0.1367	-0.1256
		Min.	-0.8896	-0.2745	-0.1833
		Dif.	0.3553	0.1378	0.0577
8.947	3.225	Max.	-0.5788	-0.1002	-0.1004
		Min.	-0.9588	-0.2395	-0.1487
		Dif.	0.3800	0.1393	0.0483
8.947	3.475	Max.	-0.6074	-0.0618	-0.0886
		Min.	-1.0010	-0.2060	-0.1334
		Dif.	0.3936	0.1442	0.0448
8.947	3.725	Max.	-0.6301	-0.0146	-0.0843
		Min.	-1.0269	-0.1512	-0.1272
		Dif.	0.3969	0.1367	0.0429
8.947	3.975	Max.	-0.6499	0.0323	-0.0737
		Min.	-1.0412	-0.0852	-0.1148
		Dif.	0.3913	0.1175	0.0411
8.947	4.225	Max.	-0.6530	0.0785	-0.0676
		Min.	-1.0346	-0.0115	-0.1104
		Dif.	0.3816	0.0899	0.0428
8.947	4.475	Max.	-0.6377	0.1541	-0.0682
		Min.	-1.0148	0.0436	-0.1096
		Dif.	0.3771	0.1105	0.0414
8.947	4.725	Max.	-0.6044	0.2233	-0.0625
		Min.	-0.9832	0.0929	-0.1099
		Dif.	0.3788	0.1304	0.0473
8.947	4.975	Max.	-0.5608	0.2912	-0.0610
		Min.	-0.9328	0.1457	-0.1113
		Dif.	0.3719	0.1455	0.0503



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.947	5.225	Max.	-0.5075	0.3523	-0.0609
		Min.	-0.8625	0.1989	-0.1137
		Dif.	0.3550	0.1534	0.0528
8.947	5.475	Max.	-0.4423	0.4029	-0.0559
		Min.	-0.7760	0.2305	-0.1178
		Dif.	0.3337	0.1723	0.0619
8.947	5.725	Max.	-0.3782	0.4625	-0.0530
		Min.	-0.6704	0.2530	-0.1229
		Dif.	0.2923	0.2095	0.0699
8.947	5.975	Max.	-0.3109	0.5197	-0.0496
		Min.	-0.5486	0.2660	-0.1209
		Dif.	0.2377	0.2537	0.0713
8.947	6.225	Max.	-0.2407	0.5577	-0.0225
		Min.	-0.4213	0.2493	-0.1057
		Dif.	0.1806	0.3084	0.0832
8.947	6.475	Max.	-0.1647	0.5833	-0.0169
		Min.	-0.2878	0.2404	-0.1058
		Dif.	0.1231	0.3429	0.0889
8.947	6.725	Max.	-0.0845	0.5894	-0.0129
		Min.	-0.1599	0.2315	-0.0809
		Dif.	0.0755	0.3578	0.0680
8.947	6.750	Max.	-0.0741	0.5814	-0.0143
		Min.	-0.1457	0.2140	-0.0597
		Dif.	0.0716	0.3674	0.0455
9.197	0.001	Max.	-0.3978	0.3661	-0.0756
		Min.	-0.9684	0.0844	-0.1239
		Dif.	0.5706	0.2818	0.0483
9.197	0.225	Max.	-0.3788	0.3652	-0.0756
		Min.	-0.8862	0.0837	-0.1239
		Dif.	0.5074	0.2815	0.0483
9.197	0.475	Max.	-0.3579	0.3632	-0.1017
		Min.	-0.7951	0.0825	-0.1562
		Dif.	0.4372	0.2807	0.0544
9.197	0.725	Max.	-0.3289	0.3581	-0.1353
		Min.	-0.6933	0.0802	-0.1961
		Dif.	0.3644	0.2779	0.0607
9.197	0.975	Max.	-0.3282	0.2833	-0.1952
		Min.	-0.6291	0.0342	-0.2758
		Dif.	0.3009	0.2490	0.0805
9.197	1.225	Max.	-0.3105	0.2094	-0.2283
		Min.	-0.5459	-0.0116	-0.3162
		Dif.	0.2353	0.2210	0.0878
9.197	1.475	Max.	-0.3184	0.1215	-0.2515
		Min.	-0.5019	-0.0637	-0.3473
		Dif.	0.1835	0.1852	0.0958
9.197	1.690	Max.	-0.3332	-0.0080	-0.2292
		Min.	-0.4821	-0.2255	-0.3106
		Dif.	0.1489	0.2175	0.0813
9.197	1.990	Max.	-0.3602	-0.0080	-0.2292
		Min.	-0.5251	-0.2255	-0.3106
		Dif.	0.1650	0.2175	0.0813
9.197	2.225	Max.	-0.3867	-0.1061	-0.2195
		Min.	-0.6019	-0.3376	-0.3048
		Dif.	0.2151	0.2315	0.0853
9.197	2.475	Max.	-0.4227	-0.1402	-0.1931
		Min.	-0.6867	-0.3504	-0.2698
		Dif.	0.2640	0.2102	0.0767



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.197	2.725	Max.	-0.4607	-0.1535	-0.1708
		Min.	-0.7731	-0.3342	-0.2390
		Dif.	0.3124	0.1808	0.0682
9.197	2.975	Max.	-0.5065	-0.1585	-0.1547
		Min.	-0.8548	-0.2959	-0.2191
		Dif.	0.3482	0.1375	0.0644
9.197	3.225	Max.	-0.5373	-0.1265	-0.1284
		Min.	-0.9097	-0.2720	-0.1891
		Dif.	0.3724	0.1455	0.0607
9.197	3.475	Max.	-0.5777	-0.0715	-0.1142
		Min.	-0.9632	-0.2189	-0.1710
		Dif.	0.3855	0.1474	0.0568
9.197	3.725	Max.	-0.6092	-0.0203	-0.1043
		Min.	-0.9960	-0.1610	-0.1601
		Dif.	0.3868	0.1407	0.0557
9.197	3.975	Max.	-0.6228	0.0220	-0.0970
		Min.	-1.0048	-0.0997	-0.1544
		Dif.	0.3819	0.1217	0.0574
9.197	4.225	Max.	-0.6321	0.0763	-0.0868
		Min.	-1.0006	-0.0167	-0.1457
		Dif.	0.3684	0.0930	0.0589
9.197	4.475	Max.	-0.6190	0.1553	-0.0773
		Min.	-0.9824	0.0387	-0.1432
		Dif.	0.3634	0.1166	0.0659
9.197	4.725	Max.	-0.5842	0.2237	-0.0794
		Min.	-0.9499	0.0874	-0.1434
		Dif.	0.3657	0.1363	0.0641
9.197	4.975	Max.	-0.5392	0.2937	-0.0764
		Min.	-0.9015	0.1439	-0.1433
		Dif.	0.3624	0.1498	0.0670
9.197	5.225	Max.	-0.4826	0.3576	-0.0665
		Min.	-0.8319	0.1933	-0.1442
		Dif.	0.3493	0.1643	0.0777
9.197	5.475	Max.	-0.4202	0.4078	-0.0739
		Min.	-0.7434	0.2327	-0.1411
		Dif.	0.3232	0.1750	0.0672
9.197	5.725	Max.	-0.3536	0.4645	-0.0736
		Min.	-0.6414	0.2474	-0.1452
		Dif.	0.2878	0.2171	0.0716
9.197	5.975	Max.	-0.2823	0.5103	-0.0681
		Min.	-0.5275	0.2432	-0.1360
		Dif.	0.2452	0.2671	0.0678
9.197	6.225	Max.	-0.2126	0.5483	-0.0631
		Min.	-0.3935	0.2407	-0.1167
		Dif.	0.1808	0.3076	0.0536
9.197	6.475	Max.	-0.1416	0.5679	-0.0362
		Min.	-0.2749	0.2239	-0.1184
		Dif.	0.1333	0.3440	0.0822
9.197	6.725	Max.	-0.0695	0.5737	-0.0260
		Min.	-0.1492	0.2127	-0.0892
		Dif.	0.0796	0.3610	0.0632
9.197	6.750	Max.	-0.0631	0.5786	-0.0143
		Min.	-0.1383	0.2167	-0.0597
		Dif.	0.0752	0.3619	0.0455
9.447	0.001	Max.	-0.3779	0.4071	-0.1089
		Min.	-0.9453	0.1147	-0.1665
		Dif.	0.5674	0.2924	0.0576



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.447	0.225	Max.	-0.3521	0.4062	-0.1089
		Min.	-0.8540	0.1140	-0.1665
		Dif.	0.5019	0.2921	0.0576
9.447	0.475	Max.	-0.3230	0.4072	-0.1402
		Min.	-0.7517	0.1152	-0.2026
		Dif.	0.4287	0.2920	0.0624
9.447	0.725	Max.	-0.2940	0.4022	-0.1738
		Min.	-0.6499	0.1128	-0.2425
		Dif.	0.3558	0.2894	0.0688
9.447	0.975	Max.	-0.2659	0.3675	-0.2063
		Min.	-0.5498	0.0915	-0.2835
		Dif.	0.2839	0.2759	0.0772
9.447	1.225	Max.	-0.2482	0.2936	-0.2386
		Min.	-0.4666	0.0456	-0.3248
		Dif.	0.2184	0.2480	0.0862
9.447	1.475	Max.	-0.2467	0.1537	-0.2660
		Min.	-0.4094	-0.0415	-0.3610
		Dif.	0.1627	0.1952	0.0950
9.447	1.690	Max.	-0.2569	-0.0218	-0.2342
		Min.	-0.3848	-0.2576	-0.3204
		Dif.	0.1279	0.2358	0.0862
9.447	1.990	Max.	-0.2889	-0.0218	-0.2342
		Min.	-0.4366	-0.2576	-0.3204
		Dif.	0.1477	0.2358	0.0862
9.447	2.225	Max.	-0.3241	-0.1345	-0.2234
		Min.	-0.5259	-0.3826	-0.3063
		Dif.	0.2018	0.2482	0.0829
9.447	2.475	Max.	-0.3680	-0.1671	-0.1978
		Min.	-0.6210	-0.3850	-0.2769
		Dif.	0.2529	0.2180	0.0790
9.447	2.725	Max.	-0.4123	-0.1774	-0.1752
		Min.	-0.7152	-0.3447	-0.2474
		Dif.	0.3029	0.1672	0.0722
9.447	2.975	Max.	-0.4585	-0.1748	-0.1573
		Min.	-0.7966	-0.3140	-0.2293
		Dif.	0.3381	0.1392	0.0720
9.447	3.225	Max.	-0.5038	-0.1362	-0.1426
		Min.	-0.8666	-0.2849	-0.2120
		Dif.	0.3628	0.1487	0.0694
9.447	3.475	Max.	-0.5442	-0.0812	-0.1284
		Min.	-0.9201	-0.2318	-0.1939
		Dif.	0.3759	0.1506	0.0655
9.447	3.725	Max.	-0.5757	-0.0300	-0.1176
		Min.	-0.9529	-0.1739	-0.1839
		Dif.	0.3772	0.1439	0.0663
9.447	3.975	Max.	-0.5984	0.0219	-0.1065
		Min.	-0.9667	-0.1070	-0.1749
		Dif.	0.3683	0.1290	0.0684
9.447	4.225	Max.	-0.6083	0.0742	-0.0964
		Min.	-0.9618	-0.0220	-0.1661
		Dif.	0.3535	0.0962	0.0697
9.447	4.475	Max.	-0.5952	0.1534	-0.0869
		Min.	-0.9438	0.0333	-0.1635
		Dif.	0.3486	0.1201	0.0766
9.447	4.725	Max.	-0.5609	0.2262	-0.0801
		Min.	-0.9153	0.0856	-0.1618
		Dif.	0.3544	0.1406	0.0816



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.447	4.975	Max.	-0.5145	0.2963	-0.0776
		Min.	-0.8682	0.1421	-0.1612
		Dif.	0.3537	0.1542	0.0835
9.447	5.225	Max.	-0.4587	0.3605	-0.0673
		Min.	-0.7979	0.1911	-0.1625
		Dif.	0.3392	0.1694	0.0952
9.447	5.475	Max.	-0.3961	0.4123	-0.0645
		Min.	-0.7105	0.2246	-0.1626
		Dif.	0.3143	0.1877	0.0981
9.447	5.725	Max.	-0.3292	0.4667	-0.0716
		Min.	-0.6090	0.2417	-0.1593
		Dif.	0.2798	0.2250	0.0877
9.447	5.975	Max.	-0.2579	0.5119	-0.0612
		Min.	-0.4950	0.2380	-0.1550
		Dif.	0.2371	0.2739	0.0938
9.447	6.225	Max.	-0.1890	0.5281	-0.0635
		Min.	-0.3742	0.2295	-0.1367
		Dif.	0.1852	0.2986	0.0732
9.447	6.475	Max.	-0.1175	0.5472	-0.0585
		Min.	-0.2560	0.2131	-0.1161
		Dif.	0.1385	0.3341	0.0576
9.447	6.725	Max.	-0.0517	0.5575	-0.0373
		Min.	-0.1326	0.1879	-0.0830
		Dif.	0.0809	0.3695	0.0457
9.447	6.750	Max.	-0.0434	0.5458	-0.0263
		Min.	-0.1176	0.1700	-0.0424
		Dif.	0.0742	0.3757	0.0161
9.697	0.001	Max.	-0.3510	0.4378	-0.1197
		Min.	-0.9125	0.1381	-0.1810
		Dif.	0.5615	0.2997	0.0613
9.697	0.225	Max.	-0.3200	0.4368	-0.1197
		Min.	-0.8142	0.1375	-0.1810
		Dif.	0.4942	0.2994	0.0613
9.697	0.475	Max.	-0.2851	0.4355	-0.1375
		Min.	-0.7044	0.1369	-0.1987
		Dif.	0.4192	0.2987	0.0612
9.697	0.725	Max.	-0.2561	0.4306	-0.1700
		Min.	-0.6025	0.1344	-0.2398
		Dif.	0.3464	0.2962	0.0697
9.697	0.975	Max.	-0.2011	0.3590	-0.1954
		Min.	-0.4671	0.0914	-0.2810
		Dif.	0.2660	0.2675	0.0856
9.697	1.225	Max.	-0.1834	0.2852	-0.2251
		Min.	-0.3838	0.0455	-0.3248
		Dif.	0.2004	0.2398	0.0997
9.697	1.475	Max.	-0.1762	0.1785	-0.2340
		Min.	-0.3195	-0.0235	-0.3450
		Dif.	0.1433	0.2021	0.1110
9.697	1.690	Max.	-0.1818	-0.0481	-0.1868
		Min.	-0.2845	-0.3162	-0.2958
		Dif.	0.1027	0.2681	0.1091
9.697	1.990	Max.	-0.2241	-0.0481	-0.1868
		Min.	-0.3514	-0.3162	-0.2958
		Dif.	0.1273	0.2681	0.1091
9.697	2.225	Max.	-0.2672	-0.1568	-0.1883
		Min.	-0.4532	-0.4201	-0.2787
		Dif.	0.1860	0.2633	0.0905



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.697	2.475	Max.	-0.3143	-0.1870	-0.1746
		Min.	-0.5581	-0.4081	-0.2584
		Dif.	0.2438	0.2211	0.0838
9.697	2.725	Max.	-0.3639	-0.1984	-0.1604
		Min.	-0.6576	-0.3691	-0.2372
		Dif.	0.2937	0.1707	0.0768
9.697	2.975	Max.	-0.4153	-0.1889	-0.1454
		Min.	-0.7440	-0.3288	-0.2161
		Dif.	0.3288	0.1399	0.0707
9.697	3.225	Max.	-0.4644	-0.1466	-0.1330
		Min.	-0.8173	-0.2970	-0.1989
		Dif.	0.3529	0.1504	0.0659
9.697	3.475	Max.	-0.5083	-0.0940	-0.1205
		Min.	-0.8735	-0.2476	-0.1849
		Dif.	0.3652	0.1536	0.0644
9.697	3.725	Max.	-0.5437	-0.0398	-0.1068
		Min.	-0.9098	-0.1862	-0.1708
		Dif.	0.3660	0.1464	0.0641
9.697	3.975	Max.	-0.5693	0.0146	-0.0951
		Min.	-0.9257	-0.1157	-0.1604
		Dif.	0.3565	0.1303	0.0653
9.697	4.225	Max.	-0.5827	0.0674	-0.0846
		Min.	-0.9210	-0.0324	-0.1533
		Dif.	0.3382	0.0998	0.0687
9.697	4.475	Max.	-0.5721	0.1468	-0.0734
		Min.	-0.9050	0.0257	-0.1469
		Dif.	0.3330	0.1211	0.0736
9.697	4.725	Max.	-0.5362	0.2235	-0.0637
		Min.	-0.8807	0.0805	-0.1443
		Dif.	0.3445	0.1430	0.0806
9.697	4.975	Max.	-0.4896	0.2936	-0.0551
		Min.	-0.8345	0.1364	-0.1455
		Dif.	0.3449	0.1572	0.0904
9.697	5.225	Max.	-0.4343	0.3531	-0.0447
		Min.	-0.7663	0.1896	-0.1471
		Dif.	0.3320	0.1635	0.1024
9.697	5.475	Max.	-0.3724	0.4055	-0.0351
		Min.	-0.6790	0.2280	-0.1522
		Dif.	0.3066	0.1775	0.1171
9.697	5.725	Max.	-0.3074	0.4590	-0.0270
		Min.	-0.5745	0.2423	-0.1595
		Dif.	0.2671	0.2167	0.1325
9.697	5.975	Max.	-0.2388	0.5054	-0.0189
		Min.	-0.4600	0.2328	-0.1634
		Dif.	0.2212	0.2725	0.1444
9.697	6.225	Max.	-0.1703	0.5256	-0.0196
		Min.	-0.3409	0.2127	-0.1571
		Dif.	0.1706	0.3129	0.1374
9.697	6.475	Max.	-0.0984	0.5264	-0.0323
		Min.	-0.2301	0.1858	-0.1245
		Dif.	0.1317	0.3407	0.0922
9.697	6.725	Max.	-0.0374	0.5288	-0.0358
		Min.	-0.1182	0.1652	-0.0718
		Dif.	0.0808	0.3636	0.0360
9.697	6.750	Max.	-0.0359	0.5458	-0.0263
		Min.	-0.1079	0.1700	-0.0424
		Dif.	0.0720	0.3757	0.0161



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.900	2.225	Max.	-0.2260	-0.1548	-0.1210
		Min.	-0.4030	-0.4301	-0.2193
		Dif.	0.1769	0.2753	0.0983
9.900	2.475	Max.	-0.2740	-0.1890	-0.1177
		Min.	-0.5118	-0.4117	-0.1983
		Dif.	0.2378	0.2227	0.0806
9.900	2.725	Max.	-0.3270	-0.2053	-0.1088
		Min.	-0.6134	-0.3775	-0.1761
		Dif.	0.2864	0.1722	0.0672
9.900	2.975	Max.	-0.3818	-0.2034	-0.0972
		Min.	-0.7033	-0.3313	-0.1539
		Dif.	0.3214	0.1279	0.0567
9.900	3.225	Max.	-0.4341	-0.1589	-0.0847
		Min.	-0.7791	-0.3013	-0.1338
		Dif.	0.3450	0.1424	0.0491
9.900	3.475	Max.	-0.4808	-0.1084	-0.0720
		Min.	-0.8377	-0.2552	-0.1161
		Dif.	0.3569	0.1468	0.0441
9.900	3.725	Max.	-0.5192	-0.0548	-0.0590
		Min.	-0.8767	-0.1950	-0.1002
		Dif.	0.3575	0.1402	0.0411
9.900	3.975	Max.	-0.5471	0.0003	-0.0465
		Min.	-0.8949	-0.1239	-0.0869
		Dif.	0.3477	0.1241	0.0403
9.900	4.225	Max.	-0.5627	0.0531	-0.0345
		Min.	-0.8917	-0.0433	-0.0763
		Dif.	0.3290	0.0964	0.0419
9.900	4.475	Max.	-0.5534	0.1297	-0.0222
		Min.	-0.8781	0.0158	-0.0682
		Dif.	0.3247	0.1139	0.0459
9.900	4.725	Max.	-0.5183	0.2066	-0.0098
		Min.	-0.8557	0.0709	-0.0630
		Dif.	0.3374	0.1356	0.0531
9.900	4.975	Max.	-0.4719	0.2751	0.0031
		Min.	-0.8110	0.1258	-0.0609
		Dif.	0.3390	0.1493	0.0640
9.900	5.225	Max.	-0.4163	0.3319	0.0174
		Min.	-0.7448	0.1782	-0.0620
		Dif.	0.3285	0.1537	0.0794
9.900	5.475	Max.	-0.3535	0.3734	0.0342
		Min.	-0.6592	0.2261	-0.0675
		Dif.	0.3056	0.1474	0.1017
9.900	5.725	Max.	-0.2892	0.4245	0.0552
		Min.	-0.5540	0.2391	-0.0790
		Dif.	0.2648	0.1854	0.1342
9.900	5.975	Max.	-0.2236	0.4705	0.0845
		Min.	-0.4361	0.2254	-0.1001
		Dif.	0.2125	0.2452	0.1846
9.900	6.225	Max.	-0.1594	0.4986	0.1386
		Min.	-0.3108	0.1912	-0.1459
		Dif.	0.1514	0.3075	0.2845
9.900	6.475	Max.	-0.0826	0.5055	0.2546
		Min.	-0.2057	0.1460	-0.2520
		Dif.	0.1231	0.3595	0.5066
9.900	6.725	Max.	-0.0156	0.5055	0.2539
		Min.	-0.1101	0.1460	-0.2513
		Dif.	0.0945	0.3595	0.5052



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.947	0.001	Max.	-0.3215	0.4593	-0.1189
		Min.	-0.8757	0.1547	-0.1811
		Dif.	0.5542	0.3046	0.0622
9.947	0.225	Max.	-0.2868	0.4584	-0.1189
		Min.	-0.7726	0.1541	-0.1811
		Dif.	0.4858	0.3043	0.0622
9.947	0.475	Max.	-0.2477	0.4591	-0.1318
		Min.	-0.6573	0.1552	-0.1937
		Dif.	0.4096	0.3039	0.0619
9.947	0.725	Max.	-0.2031	0.4643	-0.1327
		Min.	-0.5358	0.1617	-0.1909
		Dif.	0.3327	0.3026	0.0582
9.947	0.975	Max.	-0.1611	0.3954	-0.1714
		Min.	-0.4165	0.1204	-0.2545
		Dif.	0.2554	0.2750	0.0831
9.947	1.225	Max.	-0.1280	0.3103	-0.1675
		Min.	-0.3138	0.0658	-0.2567
		Dif.	0.1858	0.2445	0.0892
9.947	1.475	Max.	-0.1151	0.1973	-0.1678
		Min.	-0.2422	-0.0084	-0.2760
		Dif.	0.1272	0.2058	0.1083
9.947	1.690	Max.	-0.1131	-0.1049	-0.1140
		Min.	-0.1959	-0.4338	-0.2389
		Dif.	0.0828	0.3289	0.1249
10.197	0.001	Max.	-0.2916	0.4711	-0.1095
		Min.	-0.8378	0.1639	-0.1709
		Dif.	0.5462	0.3072	0.0614
10.197	0.225	Max.	-0.2548	0.4702	-0.1095
		Min.	-0.7321	0.1633	-0.1709
		Dif.	0.4773	0.3069	0.0614
10.197	0.475	Max.	-0.2128	0.4800	-0.1135
		Min.	-0.6130	0.1719	-0.1701
		Dif.	0.4002	0.3081	0.0566
10.197	0.725	Max.	-0.1683	0.4853	-0.1142
		Min.	-0.4914	0.1784	-0.1676
		Dif.	0.3231	0.3069	0.0535
10.197	0.975	Max.	-0.1229	0.4501	-0.1120
		Min.	-0.3693	0.1572	-0.1681
		Dif.	0.2464	0.2929	0.0561
10.197	1.225	Max.	-0.0898	0.3650	-0.1080
		Min.	-0.2665	0.1026	-0.1703
		Dif.	0.1766	0.2624	0.0623
10.197	1.475	Max.	-0.0743	0.1994	-0.0973
		Min.	-0.1913	-0.0061	-0.1743
		Dif.	0.1170	0.2055	0.0769
10.197	1.690	Max.	-0.0717	-0.1051	-0.1140
		Min.	-0.1493	-0.4337	-0.2389
		Dif.	0.0776	0.3286	0.1249
10.200	2.225	Max.	-0.1813	-0.1545	-0.1210
		Min.	-0.3457	-0.4304	-0.2193
		Dif.	0.1644	0.2759	0.0983
10.200	2.475	Max.	-0.2325	-0.1889	-0.1177
		Min.	-0.4586	-0.4117	-0.1983
		Dif.	0.2261	0.2228	0.0806
10.200	2.725	Max.	-0.2896	-0.2053	-0.1088
		Min.	-0.5653	-0.3775	-0.1761
		Dif.	0.2757	0.1722	0.0672



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.200	2.975	Max.	-0.3488	-0.2034	-0.0972
		Min.	-0.6611	-0.3313	-0.1539
		Dif.	0.3123	0.1279	0.0567
10.200	3.225	Max.	-0.4053	-0.1589	-0.0847
		Min.	-0.7424	-0.3014	-0.1338
		Dif.	0.3371	0.1424	0.0491
10.200	3.475	Max.	-0.4560	-0.1084	-0.0720
		Min.	-0.8061	-0.2552	-0.1161
		Dif.	0.3501	0.1468	0.0441
10.200	3.725	Max.	-0.4982	-0.0548	-0.0590
		Min.	-0.8500	-0.1949	-0.1002
		Dif.	0.3518	0.1401	0.0411
10.200	3.975	Max.	-0.5295	-0.0001	-0.0465
		Min.	-0.8725	-0.1235	-0.0869
		Dif.	0.3429	0.1235	0.0403
10.200	4.225	Max.	-0.5471	0.0531	-0.0345
		Min.	-0.8740	-0.0433	-0.0763
		Dif.	0.3269	0.0964	0.0419
10.200	4.475	Max.	-0.5383	0.1297	-0.0222
		Min.	-0.8663	0.0158	-0.0682
		Dif.	0.3280	0.1139	0.0459
10.200	4.725	Max.	-0.5069	0.2066	-0.0098
		Min.	-0.8454	0.0709	-0.0630
		Dif.	0.3385	0.1357	0.0531
10.200	4.975	Max.	-0.4636	0.2751	0.0031
		Min.	-0.8022	0.1258	-0.0609
		Dif.	0.3386	0.1493	0.0640
10.200	5.225	Max.	-0.4103	0.3319	0.0174
		Min.	-0.7377	0.1782	-0.0620
		Dif.	0.3274	0.1537	0.0794
10.200	5.475	Max.	-0.3499	0.3734	0.0342
		Min.	-0.6531	0.2261	-0.0675
		Dif.	0.3031	0.1474	0.1017
10.200	5.725	Max.	-0.2842	0.4247	0.0552
		Min.	-0.5523	0.2388	-0.0790
		Dif.	0.2680	0.1859	0.1342
10.200	5.975	Max.	-0.2170	0.4716	0.0845
		Min.	-0.4385	0.2244	-0.1001
		Dif.	0.2215	0.2472	0.1846
10.200	6.225	Max.	-0.1511	0.4986	0.1386
		Min.	-0.3174	0.1912	-0.1459
		Dif.	0.1664	0.3075	0.2845
10.200	6.475	Max.	-0.0815	0.5055	0.2539
		Min.	-0.2075	0.1460	-0.2513
		Dif.	0.1260	0.3595	0.5052
10.200	6.725	Max.	-0.0266	0.5055	0.2567
		Min.	-0.0994	0.1460	-0.2541
		Dif.	0.0728	0.3595	0.5108
10.447	0.001	Max.	-0.2612	0.4646	-0.0943
		Min.	-0.7985	0.1594	-0.1570
		Dif.	0.5373	0.3051	0.0627
10.447	0.225	Max.	-0.2254	0.4636	-0.0943
		Min.	-0.6942	0.1588	-0.1570
		Dif.	0.4688	0.3048	0.0627
10.447	0.475	Max.	-0.1852	0.4643	-0.0899
		Min.	-0.5777	0.1599	-0.1435
		Dif.	0.3925	0.3044	0.0536



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.447	0.725	Max.	-0.1409	0.4695	-0.0911
		Min.	-0.4560	0.1664	-0.1406
		Dif.	0.3151	0.3031	0.0495
10.447	0.975	Max.	-0.0993	0.3826	-0.0555
		Min.	-0.3392	0.1123	-0.0833
		Dif.	0.2400	0.2702	0.0278
10.447	1.225	Max.	-0.0663	0.2975	-0.0531
		Min.	-0.2363	0.0577	-0.0839
		Dif.	0.1699	0.2397	0.0308
10.447	1.475	Max.	-0.0557	0.1777	-0.0357
		Min.	-0.1725	-0.0206	-0.0659
		Dif.	0.1168	0.1983	0.0302
10.447	1.690	Max.	-0.0584	-0.0553	-0.0546
		Min.	-0.1441	-0.3203	-0.1131
		Dif.	0.0858	0.2649	0.0585
10.447	1.990	Max.	-0.1111	-0.0553	-0.0544
		Min.	-0.2039	-0.3203	-0.1132
		Dif.	0.0928	0.2649	0.0588
10.447	2.225	Max.	-0.1601	-0.1842	-0.0523
		Min.	-0.3111	-0.4538	-0.1140
		Dif.	0.1510	0.2696	0.0616
10.447	2.475	Max.	-0.2140	-0.2249	-0.0479
		Min.	-0.4285	-0.4566	-0.1050
		Dif.	0.2145	0.2316	0.0571
10.447	2.725	Max.	-0.2745	-0.2422	-0.0404
		Min.	-0.5412	-0.4264	-0.0874
		Dif.	0.2667	0.1842	0.0470
10.447	2.975	Max.	-0.3366	-0.2361	-0.0311
		Min.	-0.6433	-0.3810	-0.0667
		Dif.	0.3066	0.1449	0.0356
10.447	3.225	Max.	-0.3963	-0.1883	-0.0183
		Min.	-0.7304	-0.3472	-0.0479
		Dif.	0.3341	0.1589	0.0296
10.447	3.475	Max.	-0.4500	-0.1343	-0.0023
		Min.	-0.7994	-0.2957	-0.0334
		Dif.	0.3494	0.1614	0.0311
10.447	3.725	Max.	-0.4949	-0.0770	0.0126
		Min.	-0.8481	-0.2297	-0.0202
		Dif.	0.3532	0.1527	0.0328
10.447	3.975	Max.	-0.5287	-0.0187	0.0284
		Min.	-0.8749	-0.1527	-0.0097
		Dif.	0.3462	0.1340	0.0381
10.447	4.225	Max.	-0.5469	0.0389	0.0441
		Min.	-0.8822	-0.0673	-0.0008
		Dif.	0.3354	0.1062	0.0450
10.447	4.475	Max.	-0.5400	0.1151	0.0585
		Min.	-0.8781	0.0015	0.0066
		Dif.	0.3381	0.1136	0.0518
10.447	4.725	Max.	-0.5107	0.1967	0.0731
		Min.	-0.8603	0.0600	0.0126
		Dif.	0.3496	0.1367	0.0605
10.447	4.975	Max.	-0.4693	0.2708	0.0882
		Min.	-0.8202	0.1179	0.0174
		Dif.	0.3508	0.1529	0.0708
10.447	5.225	Max.	-0.4177	0.3361	0.1025
		Min.	-0.7584	0.1700	0.0205
		Dif.	0.3407	0.1660	0.0819



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.447	5.475	Max.	-0.3580	0.3883	0.1171
		Min.	-0.6776	0.2144	0.0227
		Dif.	0.3196	0.1740	0.0944
10.447	5.725	Max.	-0.2933	0.4372	0.1314
		Min.	-0.5802	0.2374	0.0243
		Dif.	0.2869	0.1997	0.1071
10.447	5.975	Max.	-0.2271	0.4800	0.1390
		Min.	-0.4698	0.2354	0.0285
		Dif.	0.2427	0.2447	0.1104
10.447	6.225	Max.	-0.1638	0.5089	0.1356
		Min.	-0.3508	0.2112	0.0374
		Dif.	0.1871	0.2977	0.0981
10.447	6.475	Max.	-0.1010	0.5198	0.1102
		Min.	-0.2352	0.1774	0.0510
		Dif.	0.1342	0.3424	0.0591
10.447	6.725	Max.	-0.0507	0.5486	0.0722
		Min.	-0.1159	0.1313	0.0480
		Dif.	0.0653	0.4174	0.0242
10.447	6.750	Max.	-0.0498	0.5619	0.0470
		Min.	-0.1056	0.1372	0.0290
		Dif.	0.0558	0.4247	0.0181
10.697	0.001	Max.	-0.2329	0.4488	-0.0775
		Min.	-0.7608	0.1480	-0.1427
		Dif.	0.5279	0.3008	0.0652
10.697	0.225	Max.	-0.1996	0.4479	-0.0775
		Min.	-0.6600	0.1474	-0.1427
		Dif.	0.4603	0.3004	0.0652
10.697	0.475	Max.	-0.1624	0.4460	-0.0694
		Min.	-0.5475	0.1465	-0.1246
		Dif.	0.3851	0.2995	0.0552
10.697	0.725	Max.	-0.1299	0.4364	-0.0489
		Min.	-0.4424	0.1413	-0.0900
		Dif.	0.3125	0.2951	0.0411
10.697	0.975	Max.	-0.0786	0.3530	-0.0264
		Min.	-0.3111	0.0897	-0.0450
		Dif.	0.2325	0.2633	0.0186
10.697	1.225	Max.	-0.0591	0.2729	0.0033
		Min.	-0.2270	0.0401	-0.0197
		Dif.	0.1679	0.2328	0.0230
10.697	1.475	Max.	-0.0513	0.1595	0.0145
		Min.	-0.1716	-0.0317	-0.0089
		Dif.	0.1203	0.1912	0.0234
10.697	1.690	Max.	-0.0569	-0.0387	-0.0098
		Min.	-0.1477	-0.2747	-0.0272
		Dif.	0.0908	0.2360	0.0174
10.697	1.990	Max.	-0.1022	-0.0387	-0.0097
		Min.	-0.1962	-0.2747	-0.0272
		Dif.	0.0940	0.2360	0.0175
10.697	2.225	Max.	-0.1508	-0.1836	-0.0108
		Min.	-0.2951	-0.4423	-0.0345
		Dif.	0.1443	0.2587	0.0237
10.697	2.475	Max.	-0.2053	-0.2306	-0.0116
		Min.	-0.4121	-0.4640	-0.0402
		Dif.	0.2068	0.2334	0.0286
10.697	2.725	Max.	-0.2673	-0.2503	-0.0071
		Min.	-0.5278	-0.4419	-0.0372
		Dif.	0.2604	0.1916	0.0301



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.697	2.975	Max.	-0.3315	-0.2476	0.0016
		Min.	-0.6340	-0.3983	-0.0310
		Dif.	0.3025	0.1507	0.0326
10.697	3.225	Max.	-0.3932	-0.2021	0.0138
		Min.	-0.7262	-0.3640	-0.0208
		Dif.	0.3331	0.1619	0.0346
10.697	3.475	Max.	-0.4494	-0.1476	0.0275
		Min.	-0.7999	-0.3114	-0.0090
		Dif.	0.3505	0.1638	0.0364
10.697	3.725	Max.	-0.4966	-0.0895	0.0397
		Min.	-0.8529	-0.2439	0.0018
		Dif.	0.3564	0.1544	0.0380
10.697	3.975	Max.	-0.5326	-0.0306	0.0526
		Min.	-0.8840	-0.1661	0.0116
		Dif.	0.3514	0.1354	0.0410
10.697	4.225	Max.	-0.5512	0.0277	0.0668
		Min.	-0.8969	-0.0791	0.0203
		Dif.	0.3457	0.1068	0.0464
10.697	4.475	Max.	-0.5465	0.1021	0.0795
		Min.	-0.8959	-0.0055	0.0278
		Dif.	0.3493	0.1075	0.0517
10.697	4.725	Max.	-0.5197	0.1840	0.0920
		Min.	-0.8807	0.0534	0.0348
		Dif.	0.3610	0.1305	0.0572
10.697	4.975	Max.	-0.4807	0.2613	0.1056
		Min.	-0.8435	0.1099	0.0407
		Dif.	0.3628	0.1514	0.0649
10.697	5.225	Max.	-0.4310	0.3289	0.1177
		Min.	-0.7841	0.1627	0.0454
		Dif.	0.3531	0.1662	0.0724
10.697	5.475	Max.	-0.3732	0.3836	0.1280
		Min.	-0.7055	0.2057	0.0503
		Dif.	0.3323	0.1779	0.0777
10.697	5.725	Max.	-0.3107	0.4336	0.1347
		Min.	-0.6102	0.2318	0.0566
		Dif.	0.2994	0.2018	0.0781
10.697	5.975	Max.	-0.2466	0.4799	0.1346
		Min.	-0.4998	0.2345	0.0619
		Dif.	0.2532	0.2454	0.0727
10.697	6.225	Max.	-0.1833	0.5141	0.1288
		Min.	-0.3809	0.2189	0.0617
		Dif.	0.1976	0.2952	0.0671
10.697	6.475	Max.	-0.1235	0.5433	0.1179
		Min.	-0.2567	0.1911	0.0478
		Dif.	0.1332	0.3522	0.0700
10.697	6.725	Max.	-0.0656	0.5693	0.0840
		Min.	-0.1311	0.1560	0.0350
		Dif.	0.0655	0.4133	0.0490
10.697	6.750	Max.	-0.0577	0.5619	0.0470
		Min.	-0.1166	0.1372	0.0290
		Dif.	0.0589	0.4247	0.0181
10.947	0.001	Max.	-0.2068	0.4254	-0.0618
		Min.	-0.7252	0.1310	-0.1298
		Dif.	0.5184	0.2944	0.0680
10.947	0.225	Max.	-0.1774	0.4244	-0.0618
		Min.	-0.6297	0.1304	-0.1298
		Dif.	0.4523	0.2940	0.0680



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.947	0.475	Max.	-0.1443	0.4230	-0.0435
		Min.	-0.5230	0.1300	-0.0965
		Dif.	0.3786	0.2930	0.0530
10.947	0.725	Max.	-0.1120	0.4133	-0.0230
		Min.	-0.4177	0.1248	-0.0620
		Dif.	0.3057	0.2886	0.0391
10.947	0.975	Max.	-0.0814	0.3738	-0.0024
		Min.	-0.3153	0.1006	-0.0276
		Dif.	0.2339	0.2732	0.0252
10.947	1.225	Max.	-0.0620	0.2937	0.0286
		Min.	-0.2310	0.0509	-0.0034
		Dif.	0.1690	0.2427	0.0320
10.947	1.475	Max.	-0.0573	0.1439	0.0536
		Min.	-0.1787	-0.0410	0.0160
		Dif.	0.1214	0.1849	0.0375
10.947	1.690	Max.	-0.0656	-0.0333	0.0348
		Min.	-0.1589	-0.2537	0.0130
		Dif.	0.0933	0.2204	0.0218
10.947	1.990	Max.	-0.1075	-0.0333	0.0348
		Min.	-0.2029	-0.2537	0.0129
		Dif.	0.0954	0.2204	0.0218
10.947	2.225	Max.	-0.1524	-0.1764	0.0335
		Min.	-0.2959	-0.4240	0.0081
		Dif.	0.1435	0.2476	0.0254
10.947	2.475	Max.	-0.2060	-0.2276	0.0244
		Min.	-0.4092	-0.4588	-0.0012
		Dif.	0.2032	0.2312	0.0255
10.947	2.725	Max.	-0.2677	-0.2507	0.0200
		Min.	-0.5249	-0.4415	-0.0040
		Dif.	0.2572	0.1908	0.0240
10.947	2.975	Max.	-0.3321	-0.2526	0.0189
		Min.	-0.6322	-0.4066	-0.0092
		Dif.	0.3002	0.1539	0.0281
10.947	3.225	Max.	-0.3947	-0.2119	0.0262
		Min.	-0.7280	-0.3754	-0.0049
		Dif.	0.3333	0.1635	0.0311
10.947	3.475	Max.	-0.4529	-0.1577	0.0362
		Min.	-0.8058	-0.3224	0.0063
		Dif.	0.3530	0.1647	0.0299
10.947	3.725	Max.	-0.5015	-0.0988	0.0462
		Min.	-0.8621	-0.2535	0.0115
		Dif.	0.3606	0.1548	0.0346
10.947	3.975	Max.	-0.5383	-0.0407	0.0550
		Min.	-0.8973	-0.1762	0.0193
		Dif.	0.3589	0.1355	0.0357
10.947	4.225	Max.	-0.5586	0.0169	0.0616
		Min.	-0.9142	-0.0893	0.0268
		Dif.	0.3556	0.1061	0.0347
10.947	4.475	Max.	-0.5551	0.0901	0.0776
		Min.	-0.9166	-0.0107	0.0342
		Dif.	0.3615	0.1009	0.0434
10.947	4.725	Max.	-0.5318	0.1724	0.0886
		Min.	-0.9025	0.0476	0.0398
		Dif.	0.3707	0.1248	0.0487
10.947	4.975	Max.	-0.4954	0.2486	0.0928
		Min.	-0.8674	0.1043	0.0435
		Dif.	0.3719	0.1443	0.0493



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.947	5.225	Max.	-0.4480	0.3198	0.1099
		Min.	-0.8097	0.1582	0.0507
		Dif.	0.3617	0.1616	0.0592
10.947	5.475	Max.	-0.3926	0.3744	0.1179
		Min.	-0.7323	0.2031	0.0542
		Dif.	0.3397	0.1713	0.0637
10.947	5.725	Max.	-0.3328	0.4270	0.1204
		Min.	-0.6369	0.2310	0.0482
		Dif.	0.3040	0.1960	0.0722
10.947	5.975	Max.	-0.2706	0.4814	0.1277
		Min.	-0.5254	0.2351	0.0531
		Dif.	0.2548	0.2463	0.0746
10.947	6.225	Max.	-0.2077	0.5209	0.1245
		Min.	-0.4037	0.2279	0.0462
		Dif.	0.1960	0.2930	0.0783
10.947	6.475	Max.	-0.1472	0.5584	0.1095
		Min.	-0.2737	0.2091	0.0270
		Dif.	0.1265	0.3493	0.0825
10.947	6.725	Max.	-0.0816	0.5808	0.0802
		Min.	-0.1467	0.1835	0.0203
		Dif.	0.0651	0.3973	0.0599
10.947	6.750	Max.	-0.0755	0.5844	0.0499
		Min.	-0.1355	0.1866	0.0122
		Dif.	0.0600	0.3978	0.0377
11.197	0.001	Max.	-0.1816	0.3928	-0.0551
		Min.	-0.6898	0.1078	-0.1305
		Dif.	0.5082	0.2850	0.0753
11.197	0.225	Max.	-0.1574	0.3919	-0.0551
		Min.	-0.6016	0.1072	-0.1305
		Dif.	0.4442	0.2846	0.0753
11.197	0.475	Max.	-0.1306	0.3893	-0.0382
		Min.	-0.5037	0.1057	-0.1013
		Dif.	0.3731	0.2835	0.0631
11.197	0.725	Max.	-0.0984	0.3796	-0.0177
		Min.	-0.3983	0.1005	-0.0668
		Dif.	0.2999	0.2792	0.0491
11.197	0.975	Max.	-0.0865	0.2994	0.0226
		Min.	-0.3216	0.0520	-0.0103
		Dif.	0.2351	0.2474	0.0328
11.197	1.225	Max.	-0.0673	0.2192	0.0554
		Min.	-0.2373	0.0024	0.0120
		Dif.	0.1700	0.2169	0.0434
11.197	1.475	Max.	-0.0713	0.1219	0.0789
		Min.	-0.1922	-0.0552	0.0284
		Dif.	0.1210	0.1771	0.0505
11.197	1.690	Max.	-0.0816	-0.0306	0.0683
		Min.	-0.1751	-0.2420	0.0273
		Dif.	0.0935	0.2114	0.0410
11.197	1.990	Max.	-0.1212	-0.0306	0.0683
		Min.	-0.2170	-0.2420	0.0272
		Dif.	0.0958	0.2114	0.0411
11.197	2.225	Max.	-0.1621	-0.1670	0.0644
		Min.	-0.3059	-0.4046	0.0263
		Dif.	0.1439	0.2376	0.0381
11.197	2.475	Max.	-0.2127	-0.2185	0.0476
		Min.	-0.4150	-0.4455	0.0184
		Dif.	0.2023	0.2270	0.0292



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.197	2.725	Max.	-0.2718	-0.2395	0.0343
		Min.	-0.5283	-0.4435	0.0110
		Dif.	0.2564	0.2040	0.0234
11.197	2.975	Max.	-0.3362	-0.2437	0.0308
		Min.	-0.6356	-0.4062	0.0081
		Dif.	0.2993	0.1625	0.0226
11.197	3.225	Max.	-0.3997	-0.2118	0.0176
		Min.	-0.7330	-0.3753	-0.0039
		Dif.	0.3333	0.1636	0.0215
11.197	3.475	Max.	-0.4571	-0.1577	0.0281
		Min.	-0.8116	-0.3222	0.0070
		Dif.	0.3546	0.1644	0.0211
11.197	3.725	Max.	-0.5058	-0.0988	0.0369
		Min.	-0.8677	-0.2533	0.0132
		Dif.	0.3619	0.1545	0.0237
11.197	3.975	Max.	-0.5446	-0.0447	0.0348
		Min.	-0.9100	-0.1797	0.0123
		Dif.	0.3654	0.1350	0.0224
11.197	4.225	Max.	-0.5648	0.0128	0.0405
		Min.	-0.9270	-0.0928	0.0207
		Dif.	0.3622	0.1056	0.0198
11.197	4.475	Max.	-0.5612	0.0845	0.0575
		Min.	-0.9294	-0.0126	0.0270
		Dif.	0.3682	0.0970	0.0305
11.197	4.725	Max.	-0.5447	0.1654	0.0615
		Min.	-0.9192	0.0459	0.0284
		Dif.	0.3745	0.1195	0.0331
11.197	4.975	Max.	-0.5083	0.2398	0.0698
		Min.	-0.8841	0.1044	0.0282
		Dif.	0.3758	0.1354	0.0417
11.197	5.225	Max.	-0.4608	0.3110	0.0846
		Min.	-0.8266	0.1583	0.0376
		Dif.	0.3658	0.1527	0.0471
11.197	5.475	Max.	-0.4125	0.3673	0.0940
		Min.	-0.7491	0.2085	0.0332
		Dif.	0.3366	0.1588	0.0608
11.197	5.725	Max.	-0.3528	0.4251	0.0996
		Min.	-0.6537	0.2313	0.0240
		Dif.	0.3009	0.1938	0.0756
11.197	5.975	Max.	-0.2906	0.4811	0.1070
		Min.	-0.5423	0.2337	0.0289
		Dif.	0.2517	0.2474	0.0781
11.197	6.225	Max.	-0.2279	0.5388	0.1023
		Min.	-0.4125	0.2356	0.0246
		Dif.	0.1846	0.3032	0.0776
11.197	6.475	Max.	-0.1671	0.5766	0.0887
		Min.	-0.2827	0.2164	0.0040
		Dif.	0.1157	0.3602	0.0846
11.197	6.725	Max.	-0.0930	0.5882	0.0673
		Min.	-0.1566	0.2040	0.0046
		Dif.	0.0636	0.3842	0.0627
11.197	6.750	Max.	-0.0831	0.5844	0.0499
		Min.	-0.1434	0.1866	0.0122
		Dif.	0.0603	0.3978	0.0377
11.447	0.001	Max.	-0.1561	0.3586	-0.0534
		Min.	-0.6532	0.0837	-0.1373
		Dif.	0.4971	0.2749	0.0839



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.447	0.225	Max.	-0.1373	0.3577	-0.0534
		Min.	-0.5726	0.0831	-0.1373
		Dif.	0.4353	0.2745	0.0839
11.447	0.475	Max.	-0.1166	0.3528	-0.0362
		Min.	-0.4833	0.0799	-0.1078
		Dif.	0.3667	0.2729	0.0716
11.447	0.725	Max.	-0.1053	0.3334	-0.0141
		Min.	-0.4078	0.0668	-0.0720
		Dif.	0.3025	0.2666	0.0579
11.447	0.975	Max.	-0.0758	0.2497	0.0279
		Min.	-0.3053	0.0164	-0.0061
		Dif.	0.2295	0.2333	0.0340
11.447	1.225	Max.	-0.0760	0.1887	0.0630
		Min.	-0.2486	-0.0197	0.0170
		Dif.	0.1726	0.2085	0.0460
11.447	1.475	Max.	-0.0853	0.1031	0.0810
		Min.	-0.2089	-0.0688	0.0288
		Dif.	0.1236	0.1719	0.0523
11.447	1.690	Max.	-0.1009	-0.0294	0.0813
		Min.	-0.1923	-0.2374	0.0323
		Dif.	0.0914	0.2080	0.0489
11.447	1.990	Max.	-0.1391	-0.0294	0.0814
		Min.	-0.2339	-0.2374	0.0322
		Dif.	0.0949	0.2080	0.0492
11.447	2.225	Max.	-0.1744	-0.1564	0.0770
		Min.	-0.3213	-0.3871	0.0306
		Dif.	0.1469	0.2307	0.0464
11.447	2.475	Max.	-0.2219	-0.2078	0.0587
		Min.	-0.4258	-0.4294	0.0227
		Dif.	0.2039	0.2216	0.0361
11.447	2.725	Max.	-0.2787	-0.2321	0.0425
		Min.	-0.5356	-0.4328	0.0160
		Dif.	0.2569	0.2007	0.0265
11.447	2.975	Max.	-0.3382	-0.2416	0.0305
		Min.	-0.6361	-0.4071	0.0105
		Dif.	0.2980	0.1655	0.0199
11.447	3.225	Max.	-0.4056	-0.2077	0.0255
		Min.	-0.7380	-0.3708	0.0087
		Dif.	0.3324	0.1631	0.0168
11.447	3.475	Max.	-0.4613	-0.1576	0.0146
		Min.	-0.8153	-0.3223	0.0020
		Dif.	0.3540	0.1647	0.0126
11.447	3.725	Max.	-0.5091	-0.1046	0.0113
		Min.	-0.8733	-0.2592	0.0006
		Dif.	0.3642	0.1546	0.0107
11.447	3.975	Max.	-0.5473	-0.0509	0.0202
		Min.	-0.9139	-0.1877	0.0090
		Dif.	0.3666	0.1368	0.0112
11.447	4.225	Max.	-0.5693	0.0091	0.0176
		Min.	-0.9349	-0.0967	0.0069
		Dif.	0.3656	0.1059	0.0107
11.447	4.475	Max.	-0.5694	0.0760	0.0217
		Min.	-0.9400	-0.0152	0.0046
		Dif.	0.3706	0.0912	0.0171
11.447	4.725	Max.	-0.5489	0.1516	0.0370
		Min.	-0.9274	0.0390	0.0095
		Dif.	0.3785	0.1126	0.0275



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.447	4.975	Max.	-0.5185	0.2328	0.0410
		Min.	-0.8942	0.1026	0.0074
		Dif.	0.3757	0.1303	0.0337
11.447	5.225	Max.	-0.4778	0.3004	0.0475
		Min.	-0.8371	0.1628	0.0043
		Dif.	0.3593	0.1376	0.0433
11.447	5.475	Max.	-0.4240	0.3490	0.0619
		Min.	-0.7596	0.2068	0.0020
		Dif.	0.3356	0.1422	0.0599
11.447	5.725	Max.	-0.3697	0.4248	0.0694
		Min.	-0.6627	0.2299	-0.0021
		Dif.	0.2930	0.1949	0.0715
11.447	5.975	Max.	-0.3114	0.4927	0.0728
		Min.	-0.5471	0.2428	-0.0037
		Dif.	0.2357	0.2499	0.0764
11.447	6.225	Max.	-0.2489	0.5488	0.0601
		Min.	-0.4184	0.2309	-0.0156
		Dif.	0.1695	0.3178	0.0757
11.447	6.475	Max.	-0.1834	0.5807	0.0637
		Min.	-0.2845	0.2268	-0.0173
		Dif.	0.1010	0.3540	0.0810
11.447	6.725	Max.	-0.0980	0.5934	0.0491
		Min.	-0.1658	0.2185	-0.0156
		Dif.	0.0678	0.3749	0.0647
11.447	6.750	Max.	-0.0888	0.5910	0.0322
		Min.	-0.1536	0.2163	-0.0160
		Dif.	0.0648	0.3747	0.0482
11.697	0.001	Max.	-0.1285	0.3236	-0.0530
		Min.	-0.6168	0.0581	-0.1437
		Dif.	0.4882	0.2656	0.0907
11.697	0.225	Max.	-0.1155	0.3227	-0.0530
		Min.	-0.5441	0.0575	-0.1437
		Dif.	0.4286	0.2652	0.0907
11.697	0.475	Max.	-0.1015	0.3117	-0.0304
		Min.	-0.4638	0.0497	-0.1052
		Dif.	0.3623	0.2621	0.0748
11.697	0.725	Max.	-0.0905	0.2923	-0.0083
		Min.	-0.3878	0.0366	-0.0695
		Dif.	0.2973	0.2557	0.0611
11.697	0.975	Max.	-0.0827	0.2569	0.0137
		Min.	-0.3168	0.0149	-0.0338
		Dif.	0.2341	0.2420	0.0475
11.697	1.225	Max.	-0.0832	0.1959	0.0364
		Min.	-0.2598	-0.0212	0.0013
		Dif.	0.1765	0.2171	0.0351
11.697	1.475	Max.	-0.0965	0.0857	0.0687
		Min.	-0.2243	-0.0860	0.0222
		Dif.	0.1278	0.1717	0.0465
11.697	1.690	Max.	-0.1175	-0.0280	0.0781
		Min.	-0.2106	-0.2393	0.0308
		Dif.	0.0931	0.2113	0.0473
11.697	1.990	Max.	-0.1561	-0.0282	0.0781
		Min.	-0.2520	-0.2390	0.0308
		Dif.	0.0959	0.2107	0.0473
11.697	2.225	Max.	-0.1865	-0.1441	0.0715
		Min.	-0.3373	-0.3715	0.0268
		Dif.	0.1508	0.2274	0.0447



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.697	2.475	Max.	-0.2305	-0.1964	0.0513
		Min.	-0.4376	-0.4118	0.0174
		Dif.	0.2071	0.2154	0.0339
11.697	2.725	Max.	-0.2849	-0.2317	0.0288
		Min.	-0.5434	-0.4133	0.0062
		Dif.	0.2585	0.1816	0.0225
11.697	2.975	Max.	-0.3444	-0.2351	0.0190
		Min.	-0.6440	-0.3937	-0.0016
		Dif.	0.2996	0.1586	0.0206
11.697	3.225	Max.	-0.4062	-0.2071	0.0093
		Min.	-0.7376	-0.3713	-0.0094
		Dif.	0.3314	0.1642	0.0187
11.697	3.475	Max.	-0.4619	-0.1576	-0.0004
		Min.	-0.8149	-0.3221	-0.0172
		Dif.	0.3530	0.1645	0.0168
11.697	3.725	Max.	-0.5097	-0.1047	-0.0029
		Min.	-0.8728	-0.2591	-0.0194
		Dif.	0.3632	0.1544	0.0165
11.697	3.975	Max.	-0.5475	-0.0549	-0.0054
		Min.	-0.9131	-0.1913	-0.0216
		Dif.	0.3656	0.1364	0.0162
11.697	4.225	Max.	-0.5695	0.0052	-0.0076
		Min.	-0.9341	-0.1003	-0.0242
		Dif.	0.3646	0.1055	0.0166
11.697	4.475	Max.	-0.5698	0.0704	-0.0042
		Min.	-0.9390	-0.0171	-0.0257
		Dif.	0.3692	0.0875	0.0215
11.697	4.725	Max.	-0.5526	0.1451	-0.0008
		Min.	-0.9268	0.0368	-0.0273
		Dif.	0.3742	0.1084	0.0264
11.697	4.975	Max.	-0.5222	0.2264	0.0026
		Min.	-0.8937	0.1003	-0.0289
		Dif.	0.3715	0.1260	0.0314
11.697	5.225	Max.	-0.4813	0.2943	0.0091
		Min.	-0.8367	0.1602	-0.0321
		Dif.	0.3553	0.1340	0.0413
11.697	5.475	Max.	-0.4327	0.3492	0.0157
		Min.	-0.7576	0.2049	-0.0354
		Dif.	0.3249	0.1443	0.0511
11.697	5.725	Max.	-0.3785	0.4266	0.0223
		Min.	-0.6606	0.2265	-0.0387
		Dif.	0.2820	0.2001	0.0610
11.697	5.975	Max.	-0.3201	0.4949	0.0249
		Min.	-0.5450	0.2390	-0.0395
		Dif.	0.2249	0.2559	0.0644
11.697	6.225	Max.	-0.2590	0.5390	0.0276
		Min.	-0.4137	0.2426	-0.0403
		Dif.	0.1547	0.2964	0.0679
11.697	6.475	Max.	-0.1907	0.5710	0.0303
		Min.	-0.2826	0.2385	-0.0412
		Dif.	0.0919	0.3325	0.0715
11.697	6.725	Max.	-0.0992	0.5890	0.0277
		Min.	-0.1685	0.2268	-0.0325
		Dif.	0.0693	0.3622	0.0602
11.697	6.750	Max.	-0.0899	0.5906	0.0322
		Min.	-0.1566	0.2167	-0.0160
		Dif.	0.0668	0.3739	0.0482



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.947	0.001	Max.	-0.1011	0.2880	-0.0586
		Min.	-0.5775	0.0341	-0.1569
		Dif.	0.4764	0.2539	0.0983
11.947	0.225	Max.	-0.0934	0.2871	-0.0586
		Min.	-0.5128	0.0335	-0.1569
		Dif.	0.4194	0.2535	0.0983
11.947	0.475	Max.	-0.0855	0.2824	-0.0426
		Min.	-0.4416	0.0303	-0.1289
		Dif.	0.3562	0.2520	0.0863
11.947	0.725	Max.	-0.0743	0.2630	-0.0206
		Min.	-0.3658	0.0173	-0.0931
		Dif.	0.2915	0.2457	0.0726
11.947	0.975	Max.	-0.0853	0.1936	0.0073
		Min.	-0.3210	-0.0269	-0.0427
		Dif.	0.2357	0.2204	0.0500
11.947	1.225	Max.	-0.0857	0.1326	0.0300
		Min.	-0.2641	-0.0630	-0.0077
		Dif.	0.1784	0.1955	0.0377
11.947	1.475	Max.	-0.1057	0.0699	0.0515
		Min.	-0.2378	-0.1126	0.0153
		Dif.	0.1321	0.1826	0.0362
11.947	1.690	Max.	-0.1304	-0.0257	0.0623
		Min.	-0.2277	-0.2415	0.0250
		Dif.	0.0973	0.2158	0.0373
11.947	1.990	Max.	-0.1678	-0.0238	0.0623
		Min.	-0.2702	-0.2434	0.0250
		Dif.	0.1024	0.2196	0.0373
11.947	2.225	Max.	-0.1965	-0.1312	0.0530
		Min.	-0.3504	-0.3558	0.0180
		Dif.	0.1539	0.2246	0.0350
11.947	2.475	Max.	-0.2368	-0.1813	0.0362
		Min.	-0.4457	-0.3920	0.0051
		Dif.	0.2089	0.2107	0.0310
11.947	2.725	Max.	-0.2867	-0.2092	0.0210
		Min.	-0.5461	-0.3994	-0.0109
		Dif.	0.2594	0.1902	0.0319
11.947	2.975	Max.	-0.3464	-0.2161	0.0113
		Min.	-0.6466	-0.3761	-0.0187
		Dif.	0.3002	0.1600	0.0300
11.947	3.225	Max.	-0.4019	-0.1997	-0.0065
		Min.	-0.7318	-0.3641	-0.0382
		Dif.	0.3299	0.1645	0.0317
11.947	3.475	Max.	-0.4580	-0.1503	-0.0162
		Min.	-0.8087	-0.3149	-0.0460
		Dif.	0.3507	0.1645	0.0298
11.947	3.725	Max.	-0.5060	-0.0976	-0.0187
		Min.	-0.8662	-0.2515	-0.0483
		Dif.	0.3602	0.1539	0.0296
11.947	3.975	Max.	-0.5424	-0.0512	-0.0276
		Min.	-0.9024	-0.1888	-0.0594
		Dif.	0.3600	0.1376	0.0318
11.947	4.225	Max.	-0.5643	0.0089	-0.0297
		Min.	-0.9235	-0.0978	-0.0619
		Dif.	0.3592	0.1067	0.0322
11.947	4.475	Max.	-0.5649	0.0748	-0.0264
		Min.	-0.9281	-0.0153	-0.0635
		Dif.	0.3632	0.0901	0.0371



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.947	4.725	Max.	-0.5484	0.1467	-0.0300
		Min.	-0.9146	0.0371	-0.0728
		Dif.	0.3662	0.1096	0.0428
11.947	4.975	Max.	-0.5180	0.2285	-0.0266
		Min.	-0.8816	0.1002	-0.0744
		Dif.	0.3636	0.1283	0.0477
11.947	5.225	Max.	-0.4775	0.2960	-0.0201
		Min.	-0.8241	0.1605	-0.0776
		Dif.	0.3466	0.1355	0.0576
11.947	5.475	Max.	-0.4313	0.3505	-0.0178
		Min.	-0.7443	0.1991	-0.0830
		Dif.	0.3130	0.1514	0.0653
11.947	5.725	Max.	-0.3765	0.4264	-0.0112
		Min.	-0.6480	0.2220	-0.0863
		Dif.	0.2715	0.2044	0.0751
11.947	5.975	Max.	-0.3177	0.4948	-0.0085
		Min.	-0.5329	0.2344	-0.0871
		Dif.	0.2152	0.2604	0.0786
11.947	6.225	Max.	-0.2582	0.5410	0.0035
		Min.	-0.4037	0.2373	-0.0700
		Dif.	0.1455	0.3036	0.0735
11.947	6.475	Max.	-0.1825	0.5724	0.0062
		Min.	-0.2801	0.2337	-0.0708
		Dif.	0.0976	0.3386	0.0770
11.947	6.725	Max.	-0.0912	0.5823	0.0077
		Min.	-0.1676	0.2282	-0.0584
		Dif.	0.0763	0.3541	0.0661
11.947	6.750	Max.	-0.0816	0.5801	0.0075
		Min.	-0.1552	0.2221	-0.0381
		Dif.	0.0737	0.3579	0.0456
12.197	0.001	Max.	-0.0724	0.2554	-0.0626
		Min.	-0.5357	0.0127	-0.1645
		Dif.	0.4632	0.2427	0.1020
12.197	0.225	Max.	-0.0696	0.2545	-0.0626
		Min.	-0.4783	0.0121	-0.1645
		Dif.	0.4087	0.2424	0.1020
12.197	0.475	Max.	-0.0668	0.2500	-0.0480
		Min.	-0.4151	0.0091	-0.1382
		Dif.	0.3483	0.2409	0.0902
12.197	0.725	Max.	-0.0728	0.2187	-0.0325
		Min.	-0.3644	-0.0119	-0.1057
		Dif.	0.2917	0.2306	0.0733
12.197	0.975	Max.	-0.0681	0.1453	0.0030
		Min.	-0.2979	-0.0578	-0.0466
		Dif.	0.2298	0.2031	0.0496
12.197	1.225	Max.	-0.0861	0.1034	0.0189
		Min.	-0.2660	-0.0838	-0.0208
		Dif.	0.1799	0.1872	0.0397
12.197	1.475	Max.	-0.1109	0.0575	0.0292
		Min.	-0.2461	-0.1364	-0.0011
		Dif.	0.1352	0.1939	0.0302
12.197	1.690	Max.	-0.1389	-0.0202	0.0368
		Min.	-0.2407	-0.2464	0.0169
		Dif.	0.1018	0.2262	0.0199
12.197	1.990	Max.	-0.1740	-0.0202	0.0368
		Min.	-0.2853	-0.2464	0.0169
		Dif.	0.1114	0.2262	0.0199



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.197	2.225	Max.	-0.2023	-0.1182	0.0319
		Min.	-0.3587	-0.3417	0.0010
		Dif.	0.1565	0.2235	0.0309
12.197	2.475	Max.	-0.2393	-0.1689	0.0208
		Min.	-0.4497	-0.3749	-0.0124
		Dif.	0.2103	0.2060	0.0332
12.197	2.725	Max.	-0.2864	-0.1979	0.0098
		Min.	-0.5455	-0.3828	-0.0232
		Dif.	0.2591	0.1849	0.0330
12.197	2.975	Max.	-0.3385	-0.2059	-0.0019
		Min.	-0.6348	-0.3617	-0.0369
		Dif.	0.2963	0.1558	0.0350
12.197	3.225	Max.	-0.3974	-0.1796	-0.0173
		Min.	-0.7283	-0.3439	-0.0524
		Dif.	0.3309	0.1643	0.0352
12.197	3.475	Max.	-0.4502	-0.1433	-0.0259
		Min.	-0.7960	-0.3073	-0.0632
		Dif.	0.3458	0.1640	0.0373
12.197	3.725	Max.	-0.4950	-0.0924	-0.0344
		Min.	-0.8474	-0.2496	-0.0732
		Dif.	0.3524	0.1573	0.0388
12.197	3.975	Max.	-0.5339	-0.0392	-0.0386
		Min.	-0.8874	-0.1760	-0.0774
		Dif.	0.3535	0.1368	0.0388
12.197	4.225	Max.	-0.5543	0.0126	-0.0438
		Min.	-0.9039	-0.0954	-0.0850
		Dif.	0.3496	0.1080	0.0413
12.197	4.475	Max.	-0.5536	0.0763	-0.0488
		Min.	-0.9056	-0.0162	-0.0965
		Dif.	0.3521	0.0925	0.0477
12.197	4.725	Max.	-0.5372	0.1568	-0.0464
		Min.	-0.8951	0.0420	-0.0994
		Dif.	0.3578	0.1148	0.0530
12.197	4.975	Max.	-0.5068	0.2300	-0.0458
		Min.	-0.8592	0.1006	-0.1033
		Dif.	0.3524	0.1293	0.0576
12.197	5.225	Max.	-0.4645	0.2957	-0.0506
		Min.	-0.8020	0.1561	-0.1130
		Dif.	0.3376	0.1396	0.0623
12.197	5.475	Max.	-0.4162	0.3611	-0.0457
		Min.	-0.7246	0.1971	-0.1156
		Dif.	0.3085	0.1640	0.0699
12.197	5.725	Max.	-0.3618	0.4262	-0.0368
		Min.	-0.6293	0.2176	-0.1142
		Dif.	0.2675	0.2087	0.0774
12.197	5.975	Max.	-0.3049	0.4804	-0.0403
		Min.	-0.5169	0.2238	-0.1116
		Dif.	0.2120	0.2566	0.0713
12.197	6.225	Max.	-0.2389	0.5382	-0.0339
		Min.	-0.3895	0.2282	-0.1053
		Dif.	0.1507	0.3100	0.0714
12.197	6.475	Max.	-0.1659	0.5644	-0.0159
		Min.	-0.2747	0.2251	-0.0872
		Dif.	0.1087	0.3393	0.0713
12.197	6.725	Max.	-0.0786	0.5725	-0.0125
		Min.	-0.1623	0.2168	-0.0647
		Dif.	0.0837	0.3556	0.0522



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.197	6.750	Max.	-0.0676	0.5617	-0.0154
		Min.	-0.1495	0.2020	-0.0414
		Dif.	0.0819	0.3597	0.0260
12.447	0.001	Max.	-0.0443	0.2238	-0.0569
		Min.	-0.4933	-0.0077	-0.1546
		Dif.	0.4490	0.2315	0.0976
12.447	0.225	Max.	-0.0460	0.2228	-0.0569
		Min.	-0.4431	-0.0083	-0.1546
		Dif.	0.3971	0.2311	0.0976
12.447	0.475	Max.	-0.0484	0.2138	-0.0418
		Min.	-0.3880	-0.0146	-0.1250
		Dif.	0.3396	0.2283	0.0831
12.447	0.725	Max.	-0.0542	0.1825	-0.0260
		Min.	-0.3374	-0.0355	-0.0928
		Dif.	0.2832	0.2180	0.0668
12.447	0.975	Max.	-0.0657	0.1458	-0.0132
		Min.	-0.2955	-0.0599	-0.0659
		Dif.	0.2298	0.2057	0.0527
12.447	1.225	Max.	-0.0837	0.1039	0.0021
		Min.	-0.2638	-0.0859	-0.0396
		Dif.	0.1801	0.1898	0.0417
12.447	1.475	Max.	-0.1113	0.0489	0.0088
		Min.	-0.2474	-0.1563	-0.0205
		Dif.	0.1361	0.2052	0.0293
12.447	1.690	Max.	-0.1419	-0.0099	0.0171
		Min.	-0.2490	-0.2527	0.0061
		Dif.	0.1071	0.2429	0.0110
12.447	1.990	Max.	-0.1767	-0.0099	0.0171
		Min.	-0.2927	-0.2527	0.0061
		Dif.	0.1161	0.2429	0.0110
12.447	2.225	Max.	-0.2025	-0.1071	0.0109
		Min.	-0.3619	-0.3307	-0.0155
		Dif.	0.1594	0.2236	0.0264
12.447	2.475	Max.	-0.2377	-0.1609	0.0039
		Min.	-0.4489	-0.3623	-0.0265
		Dif.	0.2112	0.2014	0.0305
12.447	2.725	Max.	-0.2836	-0.1963	-0.0041
		Min.	-0.5416	-0.3675	-0.0360
		Dif.	0.2580	0.1712	0.0319
12.447	2.975	Max.	-0.3357	-0.1971	-0.0139
		Min.	-0.6308	-0.3537	-0.0516
		Dif.	0.2951	0.1567	0.0378
12.447	3.225	Max.	-0.3883	-0.1724	-0.0229
		Min.	-0.7128	-0.3366	-0.0633
		Dif.	0.3245	0.1642	0.0404
12.447	3.475	Max.	-0.4410	-0.1363	-0.0319
		Min.	-0.7806	-0.2999	-0.0737
		Dif.	0.3397	0.1636	0.0418
12.447	3.725	Max.	-0.4857	-0.0854	-0.0406
		Min.	-0.8320	-0.2421	-0.0835
		Dif.	0.3463	0.1566	0.0429
12.447	3.975	Max.	-0.5215	-0.0354	-0.0483
		Min.	-0.8641	-0.1736	-0.0920
		Dif.	0.3426	0.1382	0.0437
12.447	4.225	Max.	-0.5420	0.0164	-0.0526
		Min.	-0.8806	-0.0929	-0.1005
		Dif.	0.3386	0.1093	0.0479



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.447	4.475	Max.	-0.5411	0.0807	-0.0574
		Min.	-0.8825	-0.0144	-0.1122
		Dif.	0.3413	0.0952	0.0548
12.447	4.725	Max.	-0.5216	0.1589	-0.0600
		Min.	-0.8687	0.0418	-0.1205
		Dif.	0.3471	0.1171	0.0604
12.447	4.975	Max.	-0.4898	0.2313	-0.0595
		Min.	-0.8343	0.1013	-0.1243
		Dif.	0.3445	0.1300	0.0647
12.447	5.225	Max.	-0.4467	0.2993	-0.0643
		Min.	-0.7778	0.1545	-0.1340
		Dif.	0.3311	0.1447	0.0697
12.447	5.475	Max.	-0.3965	0.3621	-0.0641
		Min.	-0.7011	0.1915	-0.1376
		Dif.	0.3047	0.1706	0.0735
12.447	5.725	Max.	-0.3421	0.4259	-0.0572
		Min.	-0.6059	0.2133	-0.1342
		Dif.	0.2638	0.2126	0.0770
12.447	5.975	Max.	-0.2851	0.4802	-0.0593
		Min.	-0.4935	0.2194	-0.1331
		Dif.	0.2084	0.2607	0.0738
12.447	6.225	Max.	-0.2214	0.5149	-0.0535
		Min.	-0.3764	0.2208	-0.1210
		Dif.	0.1550	0.2940	0.0675
12.447	6.475	Max.	-0.1477	0.5437	-0.0382
		Min.	-0.2623	0.2152	-0.1001
		Dif.	0.1146	0.3285	0.0619
12.447	6.725	Max.	-0.0670	0.5546	-0.0278
		Min.	-0.1526	0.2016	-0.0692
		Dif.	0.0855	0.3530	0.0414
12.447	6.750	Max.	-0.0600	0.5611	-0.0154
		Min.	-0.1429	0.2025	-0.0414
		Dif.	0.0829	0.3586	0.0260
12.697	0.001	Max.	-0.0204	0.1946	-0.0372
		Min.	-0.4556	-0.0262	-0.1246
		Dif.	0.4352	0.2207	0.0874
12.697	0.225	Max.	-0.0263	0.1936	-0.0372
		Min.	-0.4119	-0.0268	-0.1246
		Dif.	0.3856	0.2204	0.0874
12.697	0.475	Max.	-0.0335	0.1844	-0.0252
		Min.	-0.3642	-0.0331	-0.0998
		Dif.	0.3308	0.2175	0.0746
12.697	0.725	Max.	-0.0433	0.1623	-0.0141
		Min.	-0.3204	-0.0480	-0.0754
		Dif.	0.2771	0.2103	0.0612
12.697	0.975	Max.	-0.0578	0.1297	-0.0069
		Min.	-0.2835	-0.0698	-0.0563
		Dif.	0.2257	0.1995	0.0494
12.697	1.225	Max.	-0.0786	0.0905	-0.0027
		Min.	-0.2561	-0.1074	-0.0402
		Dif.	0.1775	0.1980	0.0375
12.697	1.475	Max.	-0.1088	0.0465	-0.0014
		Min.	-0.2425	-0.1714	-0.0267
		Dif.	0.1337	0.2179	0.0253
12.697	1.690	Max.	-0.1419	-0.0126	0.0146
		Min.	-0.2470	-0.2551	0.0094
		Dif.	0.1052	0.2425	0.0052



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.697	1.990	Max.	-0.1765	-0.0126	0.0146
		Min.	-0.2924	-0.2551	0.0094
		Dif.	0.1159	0.2425	0.0052
12.697	2.225	Max.	-0.1996	-0.0998	-0.0006
		Min.	-0.3591	-0.3261	-0.0216
		Dif.	0.1595	0.2263	0.0210
12.697	2.475	Max.	-0.2335	-0.1552	-0.0009
		Min.	-0.4443	-0.3540	-0.0302
		Dif.	0.2108	0.1988	0.0293
12.697	2.725	Max.	-0.2780	-0.1882	-0.0042
		Min.	-0.5342	-0.3565	-0.0386
		Dif.	0.2562	0.1683	0.0344
12.697	2.975	Max.	-0.3287	-0.1910	-0.0096
		Min.	-0.6206	-0.3441	-0.0473
		Dif.	0.2919	0.1530	0.0377
12.697	3.225	Max.	-0.3800	-0.1649	-0.0171
		Min.	-0.6994	-0.3260	-0.0566
		Dif.	0.3193	0.1611	0.0395
12.697	3.475	Max.	-0.4309	-0.1258	-0.0265
		Min.	-0.7635	-0.2889	-0.0668
		Dif.	0.3326	0.1631	0.0403
12.697	3.725	Max.	-0.4745	-0.0772	-0.0353
		Min.	-0.8118	-0.2344	-0.0761
		Dif.	0.3373	0.1572	0.0407
12.697	3.975	Max.	-0.5091	-0.0267	-0.0437
		Min.	-0.8409	-0.1658	-0.0855
		Dif.	0.3319	0.1390	0.0418
12.697	4.225	Max.	-0.5283	0.0255	-0.0494
		Min.	-0.8539	-0.0860	-0.0978
		Dif.	0.3256	0.1115	0.0484
12.697	4.475	Max.	-0.5251	0.0895	-0.0532
		Min.	-0.8550	-0.0112	-0.1085
		Dif.	0.3300	0.1007	0.0552
12.697	4.725	Max.	-0.5034	0.1675	-0.0568
		Min.	-0.8404	0.0452	-0.1186
		Dif.	0.3370	0.1223	0.0618
12.697	4.975	Max.	-0.4685	0.2390	-0.0600
		Min.	-0.8058	0.1036	-0.1285
		Dif.	0.3374	0.1354	0.0685
12.697	5.225	Max.	-0.4238	0.3039	-0.0619
		Min.	-0.7490	0.1564	-0.1357
		Dif.	0.3252	0.1474	0.0738
12.697	5.475	Max.	-0.3723	0.3648	-0.0632
		Min.	-0.6723	0.1930	-0.1416
		Dif.	0.3000	0.1718	0.0784
12.697	5.725	Max.	-0.3171	0.4252	-0.0640
		Min.	-0.5773	0.2110	-0.1443
		Dif.	0.2602	0.2142	0.0803
12.697	5.975	Max.	-0.2604	0.4758	-0.0630
		Min.	-0.4666	0.2126	-0.1397
		Dif.	0.2062	0.2632	0.0767
12.697	6.225	Max.	-0.1984	0.5049	-0.0600
		Min.	-0.3522	0.2080	-0.1257
		Dif.	0.1537	0.2969	0.0658
12.697	6.475	Max.	-0.1287	0.5266	-0.0513
		Min.	-0.2422	0.1941	-0.0999
		Dif.	0.1136	0.3325	0.0485



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.697	6.725	Max.	-0.0533	0.5336	-0.0365
		Min.	-0.1368	0.1793	-0.0587
		Dif.	0.0835	0.3543	0.0222
12.697	6.750	Max.	-0.0428	0.5184	-0.0011
		Min.	-0.1238	0.1611	-0.0359
		Dif.	0.0810	0.3573	0.0348
12.947	0.001	Max.	-0.0051	0.1700	0.0003
		Min.	-0.4287	-0.0414	-0.0656
		Dif.	0.4236	0.2114	0.0659
12.947	0.225	Max.	-0.0144	0.1691	0.0003
		Min.	-0.3905	-0.0420	-0.0656
		Dif.	0.3762	0.2111	0.0659
12.947	0.475	Max.	-0.0253	0.1620	0.0094
		Min.	-0.3489	-0.0467	-0.0462
		Dif.	0.3237	0.2087	0.0556
12.947	0.725	Max.	-0.0380	0.1461	0.0167
		Min.	-0.3101	-0.0574	-0.0287
		Dif.	0.2721	0.2035	0.0454
12.947	0.975	Max.	-0.0542	0.1193	0.0216
		Min.	-0.2764	-0.0755	-0.0184
		Dif.	0.2222	0.1949	0.0400
12.947	1.225	Max.	-0.0760	0.0905	0.0238
		Min.	-0.2508	-0.1157	-0.0140
		Dif.	0.1748	0.2062	0.0378
12.947	1.475	Max.	-0.1059	0.0547	0.0241
		Min.	-0.2368	-0.1708	-0.0102
		Dif.	0.1309	0.2256	0.0343
12.947	1.690	Max.	-0.1357	-0.0112	0.0566
		Min.	-0.2356	-0.2609	0.0226
		Dif.	0.0999	0.2497	0.0341
12.947	1.990	Max.	-0.1702	-0.0112	0.0566
		Min.	-0.2825	-0.2609	0.0226
		Dif.	0.1123	0.2497	0.0341
12.947	2.225	Max.	-0.1971	-0.1022	0.0200
		Min.	-0.3542	-0.3335	-0.0061
		Dif.	0.1571	0.2312	0.0261
12.947	2.475	Max.	-0.2304	-0.1540	0.0195
		Min.	-0.4412	-0.3511	-0.0096
		Dif.	0.2108	0.1972	0.0291
12.947	2.725	Max.	-0.2745	-0.1854	0.0175
		Min.	-0.5298	-0.3479	-0.0134
		Dif.	0.2553	0.1625	0.0309
12.947	2.975	Max.	-0.3245	-0.1866	0.0117
		Min.	-0.6140	-0.3339	-0.0184
		Dif.	0.2895	0.1473	0.0301
12.947	3.225	Max.	-0.3751	-0.1578	0.0041
		Min.	-0.6898	-0.3148	-0.0261
		Dif.	0.3147	0.1570	0.0302
12.947	3.475	Max.	-0.4243	-0.1162	-0.0050
		Min.	-0.7506	-0.2786	-0.0355
		Dif.	0.3263	0.1624	0.0306
12.947	3.725	Max.	-0.4665	-0.0677	-0.0141
		Min.	-0.7956	-0.2250	-0.0455
		Dif.	0.3291	0.1573	0.0313
12.947	3.975	Max.	-0.4995	-0.0161	-0.0220
		Min.	-0.8218	-0.1577	-0.0567
		Dif.	0.3223	0.1416	0.0347



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.947	4.225	Max.	-0.5171	0.0349	-0.0287
		Min.	-0.8317	-0.0782	-0.0684
		Dif.	0.3147	0.1131	0.0397
12.947	4.475	Max.	-0.5110	0.0998	-0.0337
		Min.	-0.8318	-0.0068	-0.0796
		Dif.	0.3208	0.1065	0.0459
12.947	4.725	Max.	-0.4870	0.1775	-0.0380
		Min.	-0.8158	0.0493	-0.0904
		Dif.	0.3289	0.1282	0.0523
12.947	4.975	Max.	-0.4493	0.2477	-0.0417
		Min.	-0.7805	0.1066	-0.1006
		Dif.	0.3312	0.1410	0.0589
12.947	5.225	Max.	-0.4028	0.3088	-0.0434
		Min.	-0.7231	0.1603	-0.1099
		Dif.	0.3203	0.1485	0.0664
12.947	5.475	Max.	-0.3493	0.3659	-0.0438
		Min.	-0.6459	0.1990	-0.1191
		Dif.	0.2966	0.1670	0.0753
12.947	5.725	Max.	-0.2926	0.4241	-0.0434
		Min.	-0.5507	0.2134	-0.1267
		Dif.	0.2582	0.2107	0.0833
12.947	5.975	Max.	-0.2359	0.4707	-0.0426
		Min.	-0.4407	0.2097	-0.1283
		Dif.	0.2048	0.2610	0.0857
12.947	6.225	Max.	-0.1771	0.4951	-0.0419
		Min.	-0.3264	0.1948	-0.1200
		Dif.	0.1493	0.3003	0.0781
12.947	6.475	Max.	-0.1130	0.5052	-0.0382
		Min.	-0.2195	0.1692	-0.0963
		Dif.	0.1065	0.3360	0.0580
12.947	6.725	Max.	-0.0457	0.5053	-0.0201
		Min.	-0.1224	0.1520	-0.0629
		Dif.	0.0767	0.3533	0.0428
12.947	6.750	Max.	-0.0417	0.5191	-0.0011
		Min.	-0.1158	0.1604	-0.0359
		Dif.	0.0741	0.3587	0.0348
13.197	0.001	Max.	-0.0037	0.1495	0.0623
		Min.	-0.4209	-0.0540	0.0340
		Dif.	0.4172	0.2035	0.0282
13.197	0.225	Max.	-0.0158	0.1485	0.0623
		Min.	-0.3873	-0.0546	0.0340
		Dif.	0.3715	0.2031	0.0282
13.197	0.475	Max.	-0.0296	0.1445	0.0684
		Min.	-0.3504	-0.0572	0.0463
		Dif.	0.3208	0.2017	0.0221
13.197	0.725	Max.	-0.0442	0.1337	0.0775
		Min.	-0.3148	-0.0643	0.0512
		Dif.	0.2707	0.1980	0.0263
13.197	0.975	Max.	-0.0611	0.1134	0.0848
		Min.	-0.2828	-0.0824	0.0510
		Dif.	0.2217	0.1958	0.0338
13.197	1.225	Max.	-0.0827	0.0907	0.0897
		Min.	-0.2576	-0.1199	0.0469
		Dif.	0.1749	0.2106	0.0428
13.197	1.475	Max.	-0.1115	0.0588	0.0979
		Min.	-0.2428	-0.1725	0.0418
		Dif.	0.1314	0.2312	0.0561



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.197	1.690	Max.	-0.1411	-0.0028	0.1569
		Min.	-0.2371	-0.2655	0.0629
		Dif.	0.0960	0.2628	0.0940
13.197	1.990	Max.	-0.1762	-0.0028	0.1569
		Min.	-0.2821	-0.2655	0.0629
		Dif.	0.1058	0.2628	0.0940
13.197	2.225	Max.	-0.2012	-0.0997	0.0924
		Min.	-0.3607	-0.3333	0.0377
		Dif.	0.1595	0.2335	0.0547
13.197	2.475	Max.	-0.2351	-0.1507	0.0809
		Min.	-0.4482	-0.3447	0.0400
		Dif.	0.2131	0.1940	0.0409
13.197	2.725	Max.	-0.2792	-0.1819	0.0711
		Min.	-0.5357	-0.3356	0.0415
		Dif.	0.2565	0.1537	0.0296
13.197	2.975	Max.	-0.3287	-0.1813	0.0594
		Min.	-0.6179	-0.3192	0.0397
		Dif.	0.2892	0.1379	0.0197
13.197	3.225	Max.	-0.3789	-0.1491	0.0468
		Min.	-0.6901	-0.3005	0.0350
		Dif.	0.3112	0.1514	0.0118
13.197	3.475	Max.	-0.4258	-0.1059	0.0369
		Min.	-0.7486	-0.2650	0.0251
		Dif.	0.3227	0.1592	0.0119
13.197	3.725	Max.	-0.4663	-0.0575	0.0276
		Min.	-0.7903	-0.2124	0.0143
		Dif.	0.3240	0.1548	0.0133
13.197	3.975	Max.	-0.4972	-0.0075	0.0193
		Min.	-0.8136	-0.1451	0.0031
		Dif.	0.3164	0.1375	0.0162
13.197	4.225	Max.	-0.5125	0.0441	0.0121
		Min.	-0.8212	-0.0689	-0.0081
		Dif.	0.3087	0.1130	0.0202
13.197	4.475	Max.	-0.5035	0.1096	0.0065
		Min.	-0.8200	-0.0009	-0.0190
		Dif.	0.3165	0.1106	0.0254
13.197	4.725	Max.	-0.4772	0.1860	0.0028
		Min.	-0.8025	0.0540	-0.0300
		Dif.	0.3253	0.1321	0.0327
13.197	4.975	Max.	-0.4377	0.2545	0.0010
		Min.	-0.7656	0.1100	-0.0412
		Dif.	0.3279	0.1445	0.0422
13.197	5.225	Max.	-0.3883	0.3125	0.0016
		Min.	-0.7081	0.1638	-0.0525
		Dif.	0.3197	0.1487	0.0541
13.197	5.475	Max.	-0.3339	0.3616	0.0048
		Min.	-0.6294	0.2077	-0.0648
		Dif.	0.2956	0.1539	0.0696
13.197	5.725	Max.	-0.2754	0.4168	0.0108
		Min.	-0.5338	0.2211	-0.0782
		Dif.	0.2585	0.1957	0.0890
13.197	5.975	Max.	-0.2173	0.4635	0.0195
		Min.	-0.4239	0.2112	-0.0920
		Dif.	0.2066	0.2523	0.1116
13.197	6.225	Max.	-0.1646	0.4873	0.0299
		Min.	-0.3037	0.1857	-0.1046
		Dif.	0.1391	0.3016	0.1345



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.197	6.475	Max.	-0.1069	0.4921	0.0404
		Min.	-0.1946	0.1477	-0.1041
		Dif.	0.0877	0.3444	0.1445
13.197	6.725	Max.	-0.0414	0.4857	0.0477
		Min.	-0.1048	0.1278	-0.0686
		Dif.	0.0635	0.3579	0.1163
13.197	6.750	Max.	-0.0371	0.4731	0.0777
		Min.	-0.0912	0.1129	-0.0193
		Dif.	0.0541	0.3602	0.0969
13.250	0.225	Max.	-0.0147	0.1337	0.1575
		Min.	-0.3839	-0.0643	0.1029
		Dif.	0.3692	0.1979	0.0546
13.250	0.475	Max.	-0.0295	0.1303	0.1590
		Min.	-0.3487	-0.0665	0.1058
		Dif.	0.3192	0.1967	0.0533
13.250	0.725	Max.	-0.0445	0.1192	0.1623
		Min.	-0.3139	-0.0744	0.1073
		Dif.	0.2694	0.1937	0.0550
13.250	0.975	Max.	-0.0615	0.1041	0.1677
		Min.	-0.2821	-0.0978	0.1061
		Dif.	0.2207	0.2018	0.0616
13.250	1.225	Max.	-0.0826	0.0807	0.1739
		Min.	-0.2566	-0.1366	0.1015
		Dif.	0.1740	0.2174	0.0724
13.250	1.475	Max.	-0.1108	0.0452	0.1799
		Min.	-0.2416	-0.1956	0.0923
		Dif.	0.1308	0.2408	0.0876
13.250	2.225	Max.	-0.1995	-0.0740	0.1716
		Min.	-0.3600	-0.3058	0.0868
		Dif.	0.1605	0.2318	0.0848
13.250	2.475	Max.	-0.2341	-0.1293	0.1578
		Min.	-0.4478	-0.3196	0.0902
		Dif.	0.2136	0.1903	0.0675
13.250	2.725	Max.	-0.2786	-0.1618	0.1435
		Min.	-0.5356	-0.3104	0.0883
		Dif.	0.2570	0.1486	0.0552
13.250	2.975	Max.	-0.3284	-0.1677	0.1282
		Min.	-0.6172	-0.2891	0.0831
		Dif.	0.2888	0.1214	0.0451
13.250	3.225	Max.	-0.3785	-0.1360	0.1134
		Min.	-0.6889	-0.2734	0.0765
		Dif.	0.3104	0.1374	0.0369
13.250	3.475	Max.	-0.4252	-0.0943	0.0995
		Min.	-0.7467	-0.2408	0.0690
		Dif.	0.3215	0.1465	0.0305
13.250	3.725	Max.	-0.4653	-0.0479	0.0866
		Min.	-0.7877	-0.1916	0.0608
		Dif.	0.3224	0.1436	0.0258
13.250	3.975	Max.	-0.4958	-0.0003	0.0753
		Min.	-0.8103	-0.1280	0.0525
		Dif.	0.3146	0.1277	0.0228
13.250	4.225	Max.	-0.5105	0.0488	0.0656
		Min.	-0.8175	-0.0558	0.0444
		Dif.	0.3071	0.1046	0.0211
13.250	4.475	Max.	-0.5009	0.1135	0.0584
		Min.	-0.8159	0.0062	0.0358
		Dif.	0.3150	0.1073	0.0226



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.250	4.725	Max.	-0.4741	0.1859	0.0537
		Min.	-0.7981	0.0583	0.0271
		Dif.	0.3240	0.1276	0.0267
13.250	4.975	Max.	-0.4342	0.2502	0.0517
		Min.	-0.7607	0.1114	0.0180
		Dif.	0.3265	0.1387	0.0337
13.250	5.225	Max.	-0.3845	0.3038	0.0527
		Min.	-0.7029	0.1624	0.0083
		Dif.	0.3184	0.1414	0.0443
13.250	5.475	Max.	-0.3292	0.3451	0.0575
		Min.	-0.6243	0.2071	-0.0028
		Dif.	0.2951	0.1381	0.0603
13.250	5.725	Max.	-0.2699	0.3973	0.0673
		Min.	-0.5288	0.2164	-0.0163
		Dif.	0.2589	0.1809	0.0836
13.250	5.975	Max.	-0.2115	0.4432	0.0840
		Min.	-0.4182	0.2008	-0.0346
		Dif.	0.2068	0.2423	0.1187
13.250	6.225	Max.	-0.1578	0.4725	0.1163
		Min.	-0.2973	0.1637	-0.0668
		Dif.	0.1395	0.3088	0.1830
13.250	6.475	Max.	-0.0972	0.4777	0.1852
		Min.	-0.1906	0.1185	-0.1337
		Dif.	0.0934	0.3592	0.3189
13.250	6.725	Max.	-0.0317	0.4777	0.1848
		Min.	-0.1074	0.1185	-0.1332
		Dif.	0.0757	0.3592	0.3180
13.550	0.225	Max.	-0.0488	0.1335	0.1575
		Min.	-0.4279	-0.0641	0.1029
		Dif.	0.3791	0.1977	0.0546
13.550	0.475	Max.	-0.0642	0.1301	0.1590
		Min.	-0.3934	-0.0664	0.1058
		Dif.	0.3292	0.1965	0.0533
13.550	0.725	Max.	-0.0799	0.1191	0.1623
		Min.	-0.3594	-0.0743	0.1073
		Dif.	0.2795	0.1934	0.0550
13.550	0.975	Max.	-0.0975	0.1040	0.1677
		Min.	-0.3283	-0.0977	0.1061
		Dif.	0.2308	0.2017	0.0616
13.550	1.225	Max.	-0.1189	0.0807	0.1739
		Min.	-0.3029	-0.1366	0.1015
		Dif.	0.1840	0.2174	0.0724
13.550	1.475	Max.	-0.1467	0.0452	0.1799
		Min.	-0.2873	-0.1956	0.0923
		Dif.	0.1406	0.2408	0.0876
13.550	2.225	Max.	-0.2342	-0.0745	0.1716
		Min.	-0.4027	-0.3054	0.0868
		Dif.	0.1685	0.2309	0.0848
13.550	2.475	Max.	-0.2675	-0.1294	0.1578
		Min.	-0.4887	-0.3195	0.0902
		Dif.	0.2212	0.1901	0.0675
13.550	2.725	Max.	-0.3098	-0.1618	0.1435
		Min.	-0.5738	-0.3104	0.0883
		Dif.	0.2640	0.1486	0.0552
13.550	2.975	Max.	-0.3572	-0.1677	0.1282
		Min.	-0.6518	-0.2891	0.0831
		Dif.	0.2946	0.1214	0.0451



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.550	3.225	Max.	-0.4045	-0.1360	0.1134
		Min.	-0.7198	-0.2733	0.0765
		Dif.	0.3154	0.1373	0.0369
13.550	3.475	Max.	-0.4484	-0.0943	0.0994
		Min.	-0.7740	-0.2407	0.0690
		Dif.	0.3256	0.1464	0.0304
13.550	3.725	Max.	-0.4857	-0.0480	0.0866
		Min.	-0.8114	-0.1915	0.0608
		Dif.	0.3257	0.1434	0.0258
13.550	3.975	Max.	-0.5129	-0.0003	0.0753
		Min.	-0.8315	-0.1280	0.0525
		Dif.	0.3186	0.1277	0.0228
13.550	4.225	Max.	-0.5240	0.0488	0.0656
		Min.	-0.8369	-0.0558	0.0444
		Dif.	0.3129	0.1046	0.0211
13.550	4.475	Max.	-0.5117	0.1135	0.0584
		Min.	-0.8334	0.0062	0.0358
		Dif.	0.3217	0.1073	0.0226
13.550	4.725	Max.	-0.4827	0.1858	0.0537
		Min.	-0.8137	0.0584	0.0271
		Dif.	0.3309	0.1274	0.0267
13.550	4.975	Max.	-0.4421	0.2503	0.0517
		Min.	-0.7737	0.1113	0.0180
		Dif.	0.3316	0.1390	0.0337
13.550	5.225	Max.	-0.3910	0.3039	0.0527
		Min.	-0.7146	0.1624	0.0083
		Dif.	0.3236	0.1415	0.0443
13.550	5.475	Max.	-0.3351	0.3451	0.0575
		Min.	-0.6348	0.2071	-0.0028
		Dif.	0.2998	0.1381	0.0603
13.550	5.725	Max.	-0.2751	0.3972	0.0673
		Min.	-0.5388	0.2164	-0.0163
		Dif.	0.2637	0.1808	0.0836
13.550	5.975	Max.	-0.2159	0.4426	0.0840
		Min.	-0.4285	0.2014	-0.0346
		Dif.	0.2126	0.2412	0.1187
13.550	6.225	Max.	-0.1583	0.4713	0.1163
		Min.	-0.3115	0.1648	-0.0668
		Dif.	0.1533	0.3065	0.1830
13.550	6.475	Max.	-0.1018	0.4777	0.1848
		Min.	-0.2011	0.1185	-0.1332
		Dif.	0.0994	0.3592	0.3180
13.550	6.725	Max.	-0.0492	0.4777	0.1874
		Min.	-0.1048	0.1185	-0.1359
		Dif.	0.0556	0.3592	0.3232
13.697	0.001	Max.	-0.0688	0.1472	0.2900
		Min.	-0.5040	-0.0559	0.1850
		Dif.	0.4352	0.2031	0.1050
13.697	0.225	Max.	-0.0813	0.1462	0.2900
		Min.	-0.4709	-0.0565	0.1850
		Dif.	0.3896	0.2027	0.1050
13.697	0.475	Max.	-0.0956	0.1426	0.2808
		Min.	-0.4345	-0.0591	0.1836
		Dif.	0.3389	0.2017	0.0972
13.697	0.725	Max.	-0.1109	0.1307	0.2737
		Min.	-0.3996	-0.0674	0.1822
		Dif.	0.2888	0.1981	0.0915



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.697	0.975	Max.	-0.1289	0.1086	0.2744
		Min.	-0.3688	-0.0855	0.1841
		Dif.	0.2399	0.1941	0.0903
13.697	1.225	Max.	-0.1514	0.0886	0.2813
		Min.	-0.3445	-0.1191	0.1866
		Dif.	0.1931	0.2077	0.0947
13.697	1.475	Max.	-0.1798	0.0611	0.2809
		Min.	-0.3295	-0.1654	0.1819
		Dif.	0.1497	0.2265	0.0990
13.697	1.690	Max.	-0.2057	-0.0007	0.2314
		Min.	-0.3245	-0.2612	0.1321
		Dif.	0.1187	0.2605	0.0993
13.697	1.990	Max.	-0.2431	-0.0044	0.2316
		Min.	-0.3653	-0.2574	0.1318
		Dif.	0.1221	0.2530	0.0997
13.697	2.225	Max.	-0.2677	-0.0946	0.2693
		Min.	-0.4413	-0.3228	0.1686
		Dif.	0.1736	0.2282	0.1008
13.697	2.475	Max.	-0.2986	-0.1377	0.2582
		Min.	-0.5254	-0.3284	0.1642
		Dif.	0.2268	0.1908	0.0940
13.697	2.725	Max.	-0.3377	-0.1642	0.2386
		Min.	-0.6083	-0.3120	0.1543
		Dif.	0.2706	0.1478	0.0843
13.697	2.975	Max.	-0.3827	-0.1660	0.2171
		Min.	-0.6831	-0.2908	0.1417
		Dif.	0.3003	0.1247	0.0754
13.697	3.225	Max.	-0.4278	-0.1308	0.2002
		Min.	-0.7490	-0.2775	0.1319
		Dif.	0.3213	0.1467	0.0683
13.697	3.475	Max.	-0.4698	-0.0870	0.1862
		Min.	-0.8014	-0.2418	0.1237
		Dif.	0.3317	0.1547	0.0625
13.697	3.725	Max.	-0.5053	-0.0396	0.1712
		Min.	-0.8372	-0.1906	0.1139
		Dif.	0.3318	0.1510	0.0573
13.697	3.975	Max.	-0.5308	0.0090	0.1598
		Min.	-0.8560	-0.1266	0.1062
		Dif.	0.3252	0.1355	0.0537
13.697	4.225	Max.	-0.5401	0.0583	0.1515
		Min.	-0.8610	-0.0504	0.1000
		Dif.	0.3209	0.1086	0.0514
13.697	4.475	Max.	-0.5265	0.1260	0.1430
		Min.	-0.8565	0.0115	0.0917
		Dif.	0.3300	0.1145	0.0512
13.697	4.725	Max.	-0.4967	0.1991	0.1387
		Min.	-0.8359	0.0639	0.0850
		Dif.	0.3391	0.1352	0.0537
13.697	4.975	Max.	-0.4561	0.2657	0.1382
		Min.	-0.7946	0.1183	0.0795
		Dif.	0.3385	0.1475	0.0586
13.697	5.225	Max.	-0.4057	0.3213	0.1376
		Min.	-0.7341	0.1703	0.0719
		Dif.	0.3284	0.1510	0.0657
13.697	5.475	Max.	-0.3486	0.3632	0.1416
		Min.	-0.6553	0.2156	0.0652
		Dif.	0.3067	0.1476	0.0765



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.697	5.725	Max.	-0.2896	0.4122	0.1497
		Min.	-0.5588	0.2312	0.0596
		Dif.	0.2693	0.1810	0.0901
13.697	5.975	Max.	-0.2288	0.4590	0.1567
		Min.	-0.4513	0.2179	0.0523
		Dif.	0.2226	0.2411	0.1043
13.697	6.225	Max.	-0.1718	0.4871	0.1613
		Min.	-0.3361	0.1881	0.0488
		Dif.	0.1643	0.2990	0.1126
13.697	6.475	Max.	-0.1184	0.4978	0.1525
		Min.	-0.2218	0.1547	0.0470
		Dif.	0.1034	0.3431	0.1055
13.697	6.725	Max.	-0.0630	0.4959	0.1210
		Min.	-0.1164	0.1329	0.0304
		Dif.	0.0533	0.3630	0.0906
13.697	6.750	Max.	-0.0553	0.4734	0.0777
		Min.	-0.1020	0.1126	-0.0193
		Dif.	0.0466	0.3608	0.0969
13.947	0.001	Max.	-0.1283	0.1575	0.3512
		Min.	-0.5847	-0.0499	0.2164
		Dif.	0.4564	0.2074	0.1348
13.947	0.225	Max.	-0.1395	0.1565	0.3512
		Min.	-0.5494	-0.0505	0.2164
		Dif.	0.4099	0.2071	0.1348
13.947	0.475	Max.	-0.1523	0.1538	0.3405
		Min.	-0.5105	-0.0529	0.2163
		Dif.	0.3582	0.2067	0.1242
13.947	0.725	Max.	-0.1660	0.1368	0.3202
		Min.	-0.4727	-0.0650	0.2120
		Dif.	0.3067	0.2018	0.1081
13.947	0.975	Max.	-0.1847	0.1061	0.3162
		Min.	-0.4418	-0.0864	0.2147
		Dif.	0.2572	0.1925	0.1015
13.947	1.225	Max.	-0.2093	0.0824	0.3224
		Min.	-0.4198	-0.1176	0.2261
		Dif.	0.2105	0.2000	0.0962
13.947	1.475	Max.	-0.2386	0.0558	0.3184
		Min.	-0.4059	-0.1613	0.2298
		Dif.	0.1673	0.2170	0.0886
13.947	1.690	Max.	-0.2637	-0.0038	0.2684
		Min.	-0.4047	-0.2488	0.1890
		Dif.	0.1410	0.2449	0.0793
13.947	1.990	Max.	-0.3017	-0.0080	0.2684
		Min.	-0.4422	-0.2446	0.1890
		Dif.	0.1404	0.2366	0.0793
13.947	2.225	Max.	-0.3252	-0.0855	0.3026
		Min.	-0.5109	-0.3105	0.2102
		Dif.	0.1857	0.2250	0.0924
13.947	2.475	Max.	-0.3519	-0.1234	0.2897
		Min.	-0.5917	-0.3164	0.1979
		Dif.	0.2398	0.1930	0.0918
13.947	2.725	Max.	-0.3878	-0.1480	0.2687
		Min.	-0.6691	-0.2930	0.1823
		Dif.	0.2814	0.1450	0.0863
13.947	2.975	Max.	-0.4278	-0.1539	0.2473
		Min.	-0.7384	-0.2763	0.1649
		Dif.	0.3107	0.1224	0.0824



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.947	3.225	Max.	-0.4693	-0.1226	0.2323
		Min.	-0.8012	-0.2683	0.1535
		Dif.	0.3319	0.1458	0.0788
13.947	3.475	Max.	-0.5087	-0.0765	0.2258
		Min.	-0.8517	-0.2289	0.1465
		Dif.	0.3429	0.1524	0.0793
13.947	3.725	Max.	-0.5401	-0.0300	0.2051
		Min.	-0.8841	-0.1801	0.1340
		Dif.	0.3440	0.1501	0.0711
13.947	3.975	Max.	-0.5631	0.0143	0.1939
		Min.	-0.9009	-0.1197	0.1269
		Dif.	0.3377	0.1340	0.0669
13.947	4.225	Max.	-0.5701	0.0646	0.1920
		Min.	-0.9057	-0.0406	0.1251
		Dif.	0.3356	0.1052	0.0669
13.947	4.475	Max.	-0.5538	0.1333	0.1764
		Min.	-0.8987	0.0186	0.1151
		Dif.	0.3449	0.1147	0.0613
13.947	4.725	Max.	-0.5233	0.2014	0.1720
		Min.	-0.8763	0.0679	0.1100
		Dif.	0.3530	0.1335	0.0620
13.947	4.975	Max.	-0.4828	0.2693	0.1781
		Min.	-0.8351	0.1236	0.1115
		Dif.	0.3523	0.1456	0.0666
13.947	5.225	Max.	-0.4318	0.3261	0.1701
		Min.	-0.7719	0.1747	0.0995
		Dif.	0.3401	0.1514	0.0706
13.947	5.475	Max.	-0.3750	0.3677	0.1712
		Min.	-0.6923	0.2122	0.0957
		Dif.	0.3174	0.1556	0.0755
13.947	5.725	Max.	-0.3153	0.4195	0.1789
		Min.	-0.5984	0.2292	0.1013
		Dif.	0.2831	0.1903	0.0776
13.947	5.975	Max.	-0.2534	0.4644	0.1725
		Min.	-0.4905	0.2203	0.0896
		Dif.	0.2371	0.2441	0.0829
13.947	6.225	Max.	-0.1951	0.4897	0.1640
		Min.	-0.3762	0.1948	0.0882
		Dif.	0.1811	0.2949	0.0758
13.947	6.475	Max.	-0.1416	0.5066	0.1477
		Min.	-0.2598	0.1721	0.0928
		Dif.	0.1182	0.3344	0.0550
13.947	6.725	Max.	-0.0847	0.5071	0.1268
		Min.	-0.1502	0.1462	0.0740
		Dif.	0.0655	0.3609	0.0528
13.947	6.750	Max.	-0.0792	0.5031	0.0936
		Min.	-0.1411	0.1400	0.0332
		Dif.	0.0618	0.3632	0.0604
14.197	0.001	Max.	-0.1925	0.1672	0.3604
		Min.	-0.6720	-0.0438	0.2137
		Dif.	0.4795	0.2110	0.1466
14.197	0.225	Max.	-0.2023	0.1663	0.3604
		Min.	-0.6345	-0.0444	0.2137
		Dif.	0.4322	0.2107	0.1466
14.197	0.475	Max.	-0.2137	0.1634	0.3495
		Min.	-0.5932	-0.0465	0.2128
		Dif.	0.3795	0.2098	0.1367



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.197	0.725	Max.	-0.2273	0.1464	0.3287
		Min.	-0.5556	-0.0586	0.2089
		Dif.	0.3283	0.2050	0.1198
14.197	0.975	Max.	-0.2454	0.0911	0.3124
		Min.	-0.5218	-0.0952	0.2113
		Dif.	0.2764	0.1863	0.1012
14.197	1.225	Max.	-0.2701	0.0676	0.3207
		Min.	-0.4998	-0.1266	0.2207
		Dif.	0.2297	0.1942	0.1001
14.197	1.475	Max.	-0.3011	0.0451	0.3177
		Min.	-0.4885	-0.1618	0.2240
		Dif.	0.1874	0.2069	0.0937
14.197	1.690	Max.	-0.3285	-0.0051	0.2643
		Min.	-0.4886	-0.2358	0.1931
		Dif.	0.1601	0.2308	0.0712
14.197	1.990	Max.	-0.3666	-0.0083	0.2646
		Min.	-0.5225	-0.2326	0.1929
		Dif.	0.1559	0.2242	0.0717
14.197	2.225	Max.	-0.3865	-0.0739	0.2950
		Min.	-0.5848	-0.2864	0.2080
		Dif.	0.1983	0.2125	0.0869
14.197	2.475	Max.	-0.4094	-0.1073	0.2813
		Min.	-0.6591	-0.2963	0.1942
		Dif.	0.2496	0.1890	0.0872
14.197	2.725	Max.	-0.4403	-0.1283	0.2656
		Min.	-0.7321	-0.2886	0.1804
		Dif.	0.2917	0.1602	0.0853
14.197	2.975	Max.	-0.4798	-0.1427	0.2439
		Min.	-0.8020	-0.2632	0.1634
		Dif.	0.3222	0.1204	0.0805
14.197	3.225	Max.	-0.5098	-0.1152	0.2284
		Min.	-0.8535	-0.2587	0.1480
		Dif.	0.3437	0.1435	0.0804
14.197	3.475	Max.	-0.5493	-0.0692	0.2220
		Min.	-0.9040	-0.2193	0.1409
		Dif.	0.3547	0.1500	0.0811
14.197	3.725	Max.	-0.5806	-0.0230	0.2013
		Min.	-0.9364	-0.1701	0.1285
		Dif.	0.3558	0.1472	0.0729
14.197	3.975	Max.	-0.5961	0.0174	0.1930
		Min.	-0.9476	-0.1131	0.1240
		Dif.	0.3515	0.1305	0.0690
14.197	4.225	Max.	-0.6025	0.0675	0.1918
		Min.	-0.9529	-0.0339	0.1216
		Dif.	0.3504	0.1013	0.0702
14.197	4.475	Max.	-0.5859	0.1369	0.1747
		Min.	-0.9462	0.0246	0.1130
		Dif.	0.3603	0.1124	0.0617
14.197	4.725	Max.	-0.5535	0.2014	0.1727
		Min.	-0.9196	0.0717	0.1103
		Dif.	0.3661	0.1297	0.0624
14.197	4.975	Max.	-0.5129	0.2694	0.1795
		Min.	-0.8783	0.1273	0.1110
		Dif.	0.3654	0.1421	0.0685
14.197	5.225	Max.	-0.4620	0.3265	0.1682
		Min.	-0.8151	0.1781	0.1023
		Dif.	0.3531	0.1484	0.0658



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.197	5.475	Max.	-0.4056	0.3702	0.1674
		Min.	-0.7326	0.2166	0.0996
		Dif.	0.3270	0.1536	0.0679
14.197	5.725	Max.	-0.3460	0.4240	0.1781
		Min.	-0.6387	0.2315	0.1022
		Dif.	0.2927	0.1926	0.0759
14.197	5.975	Max.	-0.2838	0.4703	0.1662
		Min.	-0.5310	0.2213	0.0961
		Dif.	0.2472	0.2490	0.0701
14.197	6.225	Max.	-0.2214	0.5080	0.1421
		Min.	-0.4101	0.2028	0.0865
		Dif.	0.1886	0.3053	0.0556
14.197	6.475	Max.	-0.1679	0.5259	0.1325
		Min.	-0.2937	0.1792	0.0845
		Dif.	0.1258	0.3467	0.0480
14.197	6.725	Max.	-0.1063	0.5264	0.0993
		Min.	-0.1814	0.1678	0.0701
		Dif.	0.0750	0.3586	0.0292
14.197	6.750	Max.	-0.1009	0.5378	0.0667
		Min.	-0.1738	0.1741	0.0413
		Dif.	0.0729	0.3637	0.0255
14.447	0.001	Max.	-0.2535	0.1776	0.3281
		Min.	-0.7549	-0.0367	0.1853
		Dif.	0.5014	0.2143	0.1428
14.447	0.225	Max.	-0.2617	0.1766	0.3281
		Min.	-0.7150	-0.0373	0.1853
		Dif.	0.4533	0.2139	0.1428
14.447	0.475	Max.	-0.2716	0.1710	0.3161
		Min.	-0.6715	-0.0414	0.1830
		Dif.	0.3999	0.2124	0.1331
14.447	0.725	Max.	-0.2834	0.1486	0.3004
		Min.	-0.6303	-0.0579	0.1770
		Dif.	0.3469	0.2065	0.1234
14.447	0.975	Max.	-0.3044	0.0992	0.2965
		Min.	-0.6008	-0.0908	0.1857
		Dif.	0.2965	0.1900	0.1108
14.447	1.225	Max.	-0.3255	0.0629	0.2815
		Min.	-0.5741	-0.1184	0.1791
		Dif.	0.2486	0.1813	0.1023
14.447	1.475	Max.	-0.3572	0.0355	0.2723
		Min.	-0.5639	-0.1609	0.1771
		Dif.	0.2067	0.1964	0.0951
14.447	1.690	Max.	-0.3896	-0.0050	0.2206
		Min.	-0.5638	-0.2242	0.1474
		Dif.	0.1741	0.2193	0.0732
14.447	1.990	Max.	-0.4275	-0.0068	0.2206
		Min.	-0.5943	-0.2225	0.1474
		Dif.	0.1669	0.2157	0.0732
14.447	2.225	Max.	-0.4418	-0.0598	0.2465
		Min.	-0.6512	-0.2647	0.1662
		Dif.	0.2094	0.2049	0.0803
14.447	2.475	Max.	-0.4614	-0.0947	0.2364
		Min.	-0.7198	-0.2782	0.1568
		Dif.	0.2584	0.1835	0.0796
14.447	2.725	Max.	-0.4883	-0.1178	0.2272
		Min.	-0.7899	-0.2766	0.1470
		Dif.	0.3016	0.1588	0.0801



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.447	2.975	Max.	-0.5193	-0.1250	0.2217
		Min.	-0.8514	-0.2473	0.1430
		Dif.	0.3321	0.1223	0.0786
14.447	3.225	Max.	-0.5587	-0.0978	0.1998
		Min.	-0.9123	-0.2386	0.1240
		Dif.	0.3536	0.1409	0.0758
14.447	3.475	Max.	-0.5885	-0.0619	0.1944
		Min.	-0.9545	-0.2096	0.1200
		Dif.	0.3660	0.1477	0.0744
14.447	3.725	Max.	-0.6133	-0.0171	0.1892
		Min.	-0.9814	-0.1582	0.1164
		Dif.	0.3680	0.1411	0.0728
14.447	3.975	Max.	-0.6343	0.0254	0.1752
		Min.	-0.9976	-0.0994	0.1072
		Dif.	0.3633	0.1248	0.0680
14.447	4.225	Max.	-0.6345	0.0704	0.1700
		Min.	-0.9990	-0.0271	0.1036
		Dif.	0.3645	0.0975	0.0664
14.447	4.475	Max.	-0.6155	0.1390	0.1664
		Min.	-0.9889	0.0313	0.1014
		Dif.	0.3734	0.1077	0.0650
14.447	4.725	Max.	-0.5844	0.2047	0.1618
		Min.	-0.9660	0.0785	0.0980
		Dif.	0.3816	0.1262	0.0638
14.447	4.975	Max.	-0.5436	0.2695	0.1602
		Min.	-0.9204	0.1311	0.0936
		Dif.	0.3768	0.1385	0.0666
14.447	5.225	Max.	-0.4947	0.3263	0.1587
		Min.	-0.8546	0.1820	0.0895
		Dif.	0.3599	0.1443	0.0693
14.447	5.475	Max.	-0.4377	0.3700	0.1602
		Min.	-0.7753	0.2162	0.0868
		Dif.	0.3377	0.1538	0.0733
14.447	5.725	Max.	-0.3783	0.4297	0.1591
		Min.	-0.6766	0.2326	0.0823
		Dif.	0.2983	0.1971	0.0768
14.447	5.975	Max.	-0.3157	0.4872	0.1492
		Min.	-0.5641	0.2345	0.0775
		Dif.	0.2484	0.2527	0.0717
14.447	6.225	Max.	-0.2564	0.5195	0.1216
		Min.	-0.4476	0.2109	0.0650
		Dif.	0.1912	0.3086	0.0566
14.447	6.475	Max.	-0.1917	0.5439	0.1123
		Min.	-0.3203	0.1988	0.0596
		Dif.	0.1287	0.3452	0.0528
14.447	6.725	Max.	-0.1222	0.5496	0.0810
		Min.	-0.2028	0.1888	0.0536
		Dif.	0.0806	0.3608	0.0275
14.447	6.750	Max.	-0.1123	0.5378	0.0667
		Min.	-0.1894	0.1741	0.0413
		Dif.	0.0771	0.3637	0.0255
14.697	0.001	Max.	-0.3062	0.1916	0.2690
		Min.	-0.8256	-0.0262	0.1386
		Dif.	0.5194	0.2179	0.1305
14.697	0.225	Max.	-0.3121	0.1907	0.2690
		Min.	-0.7826	-0.0268	0.1386
		Dif.	0.4705	0.2175	0.1305



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.697	0.475	Max.	-0.3196	0.1748	0.2484
		Min.	-0.7358	-0.0388	0.1306
		Dif.	0.4163	0.2136	0.1178
14.697	0.725	Max.	-0.3313	0.1524	0.2329
		Min.	-0.6947	-0.0554	0.1245
		Dif.	0.3634	0.2078	0.1084
14.697	0.975	Max.	-0.3470	0.1254	0.2178
		Min.	-0.6590	-0.0728	0.1180
		Dif.	0.3120	0.1983	0.0999
14.697	1.225	Max.	-0.3681	0.0866	0.2029
		Min.	-0.6323	-0.0959	0.1114
		Dif.	0.2643	0.1825	0.0915
14.697	1.475	Max.	-0.3982	0.0302	0.1845
		Min.	-0.6206	-0.1541	0.1031
		Dif.	0.2224	0.1843	0.0814
14.697	1.690	Max.	-0.4324	-0.0028	0.1254
		Min.	-0.6235	-0.2150	0.0658
		Dif.	0.1911	0.2122	0.0595
14.697	1.990	Max.	-0.4744	-0.0028	0.1254
		Min.	-0.6464	-0.2150	0.0658
		Dif.	0.1720	0.2122	0.0595
14.697	2.225	Max.	-0.4818	-0.0495	0.1616
		Min.	-0.7004	-0.2499	0.0938
		Dif.	0.2186	0.2004	0.0678
14.697	2.475	Max.	-0.4991	-0.0877	0.1580
		Min.	-0.7657	-0.2676	0.0940
		Dif.	0.2666	0.1799	0.0640
14.697	2.725	Max.	-0.5248	-0.1187	0.1522
		Min.	-0.8335	-0.2610	0.0897
		Dif.	0.3087	0.1424	0.0625
14.697	2.975	Max.	-0.5559	-0.1175	0.1467
		Min.	-0.8950	-0.2401	0.0858
		Dif.	0.3391	0.1226	0.0610
14.697	3.225	Max.	-0.5882	-0.0904	0.1412
		Min.	-0.9497	-0.2291	0.0818
		Dif.	0.3615	0.1386	0.0594
14.697	3.475	Max.	-0.6181	-0.0546	0.1357
		Min.	-0.9919	-0.2000	0.0778
		Dif.	0.3739	0.1454	0.0579
14.697	3.725	Max.	-0.6429	-0.0098	0.1306
		Min.	-1.0187	-0.1485	0.0742
		Dif.	0.3758	0.1387	0.0564
14.697	3.975	Max.	-0.6595	0.0283	0.1254
		Min.	-1.0310	-0.0927	0.0707
		Dif.	0.3715	0.1210	0.0547
14.697	4.225	Max.	-0.6588	0.0733	0.1202
		Min.	-1.0331	-0.0204	0.0671
		Dif.	0.3743	0.0937	0.0530
14.697	4.475	Max.	-0.6397	0.1426	0.1165
		Min.	-1.0231	0.0373	0.0649
		Dif.	0.3834	0.1053	0.0517
14.697	4.725	Max.	-0.6077	0.2047	0.1141
		Min.	-0.9965	0.0823	0.0614
		Dif.	0.3888	0.1224	0.0528
14.697	4.975	Max.	-0.5663	0.2697	0.1120
		Min.	-0.9516	0.1347	0.0576
		Dif.	0.3854	0.1350	0.0544



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.697	5.225	Max.	-0.5163	0.3268	0.1107
		Min.	-0.8868	0.1853	0.0532
		Dif.	0.3705	0.1414	0.0575
14.697	5.475	Max.	-0.4617	0.3728	0.1095
		Min.	-0.8015	0.2202	0.0488
		Dif.	0.3398	0.1526	0.0607
14.697	5.725	Max.	-0.4025	0.4357	0.1082
		Min.	-0.7026	0.2335	0.0445
		Dif.	0.3001	0.2022	0.0637
14.697	5.975	Max.	-0.3400	0.4930	0.0987
		Min.	-0.5899	0.2356	0.0392
		Dif.	0.2499	0.2575	0.0595
14.697	6.225	Max.	-0.2759	0.5284	0.0893
		Min.	-0.4652	0.2317	0.0340
		Dif.	0.1894	0.2967	0.0553
14.697	6.475	Max.	-0.2110	0.5528	0.0800
		Min.	-0.3381	0.2196	0.0285
		Dif.	0.1271	0.3332	0.0516
14.697	6.725	Max.	-0.1365	0.5629	0.0554
		Min.	-0.2191	0.2011	0.0214
		Dif.	0.0826	0.3618	0.0340
14.697	6.750	Max.	-0.1291	0.5645	0.0276
		Min.	-0.2084	0.1970	0.0051
		Dif.	0.0793	0.3675	0.0225
14.947	0.001	Max.	-0.3481	0.2122	0.1927
		Min.	-0.8805	-0.0100	0.0801
		Dif.	0.5324	0.2222	0.1125
14.947	0.225	Max.	-0.3503	0.2112	0.1927
		Min.	-0.8328	-0.0106	0.0801
		Dif.	0.4825	0.2219	0.1125
14.947	0.475	Max.	-0.3535	0.2047	0.1713
		Min.	-0.7807	-0.0154	0.0698
		Dif.	0.4272	0.2201	0.1015
14.947	0.725	Max.	-0.3651	0.1823	0.1555
		Min.	-0.7396	-0.0319	0.0640
		Dif.	0.3745	0.2142	0.0915
14.947	0.975	Max.	-0.3701	0.1152	0.1049
		Min.	-0.6901	-0.0744	0.0322
		Dif.	0.3199	0.1896	0.0727
14.947	1.225	Max.	-0.3911	0.0763	0.0899
		Min.	-0.6635	-0.0975	0.0256
		Dif.	0.2723	0.1738	0.0644
14.947	1.475	Max.	-0.4189	0.0336	0.0757
		Min.	-0.6501	-0.1373	0.0185
		Dif.	0.2312	0.1709	0.0572
14.947	1.690	Max.	-0.4482	0.0040	0.0439
		Min.	-0.6491	-0.2130	0.0013
		Dif.	0.2009	0.2170	0.0426
14.947	1.990	Max.	-0.4911	0.0040	0.0439
		Min.	-0.6683	-0.2130	0.0013
		Dif.	0.1772	0.2170	0.0426
14.947	2.225	Max.	-0.5014	-0.0515	0.0615
		Min.	-0.7238	-0.2494	0.0143
		Dif.	0.2224	0.1979	0.0472
14.947	2.475	Max.	-0.5191	-0.0868	0.0639
		Min.	-0.7885	-0.2658	0.0193
		Dif.	0.2694	0.1790	0.0446



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.947	2.725	Max.	-0.5443	-0.1109	0.0641
		Min.	-0.8556	-0.2678	0.0231
		Dif.	0.3112	0.1569	0.0411
14.947	2.975	Max.	-0.5751	-0.1166	0.0582
		Min.	-0.9174	-0.2399	0.0195
		Dif.	0.3423	0.1233	0.0387
14.947	3.225	Max.	-0.6053	-0.0905	0.0665
		Min.	-0.9701	-0.2305	0.0294
		Dif.	0.3648	0.1401	0.0371
14.947	3.475	Max.	-0.6352	-0.0547	0.0610
		Min.	-1.0124	-0.2014	0.0254
		Dif.	0.3772	0.1467	0.0356
14.947	3.725	Max.	-0.6601	-0.0099	0.0558
		Min.	-1.0392	-0.1499	0.0219
		Dif.	0.3791	0.1400	0.0338
14.947	3.975	Max.	-0.6747	0.0296	0.0601
		Min.	-1.0486	-0.0913	0.0242
		Dif.	0.3740	0.1209	0.0359
14.947	4.225	Max.	-0.6731	0.0745	0.0549
		Min.	-1.0519	-0.0190	0.0206
		Dif.	0.3788	0.0935	0.0343
14.947	4.475	Max.	-0.6534	0.1446	0.0513
		Min.	-1.0424	0.0380	0.0184
		Dif.	0.3890	0.1066	0.0329
14.947	4.725	Max.	-0.6184	0.2062	0.0529
		Min.	-1.0149	0.0840	0.0154
		Dif.	0.3964	0.1222	0.0375
14.947	4.975	Max.	-0.5764	0.2712	0.0493
		Min.	-0.9705	0.1364	0.0131
		Dif.	0.3940	0.1348	0.0362
14.947	5.225	Max.	-0.5273	0.3267	0.0479
		Min.	-0.9048	0.1886	0.0088
		Dif.	0.3775	0.1381	0.0392
14.947	5.475	Max.	-0.4721	0.3735	0.0516
		Min.	-0.8163	0.2229	0.0029
		Dif.	0.3442	0.1505	0.0487
14.947	5.725	Max.	-0.4141	0.4389	0.0502
		Min.	-0.7161	0.2337	-0.0013
		Dif.	0.3020	0.2052	0.0514
14.947	5.975	Max.	-0.3540	0.4961	0.0407
		Min.	-0.6010	0.2359	-0.0066
		Dif.	0.2469	0.2602	0.0473
14.947	6.225	Max.	-0.2872	0.5430	0.0451
		Min.	-0.4703	0.2305	-0.0034
		Dif.	0.1831	0.3125	0.0485
14.947	6.475	Max.	-0.2224	0.5674	0.0357
		Min.	-0.3430	0.2183	-0.0087
		Dif.	0.1206	0.3491	0.0444
14.947	6.725	Max.	-0.1431	0.5725	0.0274
		Min.	-0.2244	0.2080	-0.0063
		Dif.	0.0813	0.3645	0.0337
14.947	6.750	Max.	-0.1335	0.5645	0.0276
		Min.	-0.2121	0.1970	0.0051
		Dif.	0.0786	0.3675	0.0225
15.197	0.001	Max.	-0.3752	0.2364	0.1015
		Min.	-0.9140	0.0095	0.0134
		Dif.	0.5388	0.2270	0.0881



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.197	0.225	Max.	-0.3731	0.2355	0.1015
		Min.	-0.8609	0.0089	0.0134
		Dif.	0.4878	0.2266	0.0881
15.197	0.475	Max.	-0.3715	0.2296	0.0768
		Min.	-0.8028	0.0046	0.0007
		Dif.	0.4313	0.2250	0.0761
15.197	0.725	Max.	-0.3678	0.2085	0.0422
		Min.	-0.7422	-0.0112	-0.0201
		Dif.	0.3744	0.2196	0.0623
15.197	0.975	Max.	-0.3859	0.1458	0.0113
		Min.	-0.7093	-0.0510	-0.0364
		Dif.	0.3235	0.1968	0.0477
15.197	1.225	Max.	-0.3933	0.0948	-0.0183
		Min.	-0.6657	-0.0825	-0.0627
		Dif.	0.2724	0.1772	0.0444
15.197	1.475	Max.	-0.4184	0.0380	-0.0279
		Min.	-0.6488	-0.1229	-0.0790
		Dif.	0.2304	0.1609	0.0511
15.197	1.690	Max.	-0.4479	-0.0023	-0.0114
		Min.	-0.6468	-0.2066	-0.0533
		Dif.	0.1989	0.2043	0.0419
15.197	1.990	Max.	-0.4863	-0.0023	-0.0114
		Min.	-0.6706	-0.2066	-0.0533
		Dif.	0.1843	0.2043	0.0419
15.197	2.225	Max.	-0.5001	-0.0540	-0.0302
		Min.	-0.7212	-0.2547	-0.0771
		Dif.	0.2211	0.2007	0.0469
15.197	2.475	Max.	-0.5196	-0.0923	-0.0255
		Min.	-0.7870	-0.2731	-0.0666
		Dif.	0.2674	0.1808	0.0411
15.197	2.725	Max.	-0.5462	-0.1158	-0.0194
		Min.	-0.8558	-0.2741	-0.0530
		Dif.	0.3096	0.1583	0.0336
15.197	2.975	Max.	-0.5801	-0.1165	-0.0117
		Min.	-0.9213	-0.2424	-0.0418
		Dif.	0.3411	0.1259	0.0302
15.197	3.225	Max.	-0.6081	-0.0951	-0.0136
		Min.	-0.9726	-0.2375	-0.0356
		Dif.	0.3644	0.1425	0.0219
15.197	3.475	Max.	-0.6397	-0.0548	-0.0048
		Min.	-1.0155	-0.2028	-0.0256
		Dif.	0.3759	0.1481	0.0209
15.197	3.725	Max.	-0.6650	-0.0072	-0.0000
		Min.	-1.0420	-0.1474	-0.0238
		Dif.	0.3770	0.1402	0.0238
15.197	3.975	Max.	-0.6800	0.0305	-0.0058
		Min.	-1.0517	-0.0916	-0.0281
		Dif.	0.3717	0.1222	0.0222
15.197	4.225	Max.	-0.6766	0.0758	-0.0010
		Min.	-1.0549	-0.0177	-0.0264
		Dif.	0.3784	0.0934	0.0254
15.197	4.475	Max.	-0.6532	0.1471	0.0013
		Min.	-1.0469	0.0402	-0.0284
		Dif.	0.3937	0.1069	0.0297
15.197	4.725	Max.	-0.6190	0.2092	-0.0017
		Min.	-1.0207	0.0852	-0.0335
		Dif.	0.4017	0.1240	0.0317



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.197	4.975	Max.	-0.5761	0.2727	0.0006
		Min.	-0.9746	0.1381	-0.0355
		Dif.	0.3986	0.1346	0.0361
15.197	5.225	Max.	-0.5255	0.3280	0.0017
		Min.	-0.9077	0.1919	-0.0371
		Dif.	0.3822	0.1361	0.0388
15.197	5.475	Max.	-0.4713	0.3748	0.0010
		Min.	-0.8205	0.2259	-0.0443
		Dif.	0.3491	0.1489	0.0452
15.197	5.725	Max.	-0.4135	0.4421	0.0035
		Min.	-0.7175	0.2339	-0.0472
		Dif.	0.3041	0.2082	0.0508
15.197	5.975	Max.	-0.3545	0.5011	0.0079
		Min.	-0.5985	0.2362	-0.0430
		Dif.	0.2440	0.2649	0.0509
15.197	6.225	Max.	-0.2917	0.5478	-0.0023
		Min.	-0.4661	0.2311	-0.0533
		Dif.	0.1744	0.3167	0.0510
15.197	6.475	Max.	-0.2266	0.5712	0.0021
		Min.	-0.3362	0.2185	-0.0492
		Dif.	0.1096	0.3527	0.0512
15.197	6.725	Max.	-0.1438	0.5774	-0.0017
		Min.	-0.2199	0.2088	-0.0453
		Dif.	0.0761	0.3686	0.0435
15.197	6.750	Max.	-0.1346	0.5718	-0.0091
		Min.	-0.2067	0.1969	-0.0481
		Dif.	0.0721	0.3748	0.0391
15.447	0.001	Max.	-0.3867	0.2656	0.0111
		Min.	-0.9245	0.0333	-0.0536
		Dif.	0.5379	0.2323	0.0646
15.447	0.225	Max.	-0.3792	0.2647	0.0111
		Min.	-0.8649	0.0327	-0.0536
		Dif.	0.4857	0.2319	0.0646
15.447	0.475	Max.	-0.3715	0.2510	-0.0279
		Min.	-0.7994	0.0223	-0.0725
		Dif.	0.4278	0.2288	0.0446
15.447	0.725	Max.	-0.3678	0.2299	-0.0560
		Min.	-0.7389	0.0065	-0.1001
		Dif.	0.3711	0.2234	0.0441
15.447	0.975	Max.	-0.3679	0.1981	-0.0786
		Min.	-0.6837	-0.0143	-0.1329
		Dif.	0.3157	0.2124	0.0543
15.447	1.225	Max.	-0.3753	0.1471	-0.1011
		Min.	-0.6401	-0.0458	-0.1659
		Dif.	0.2648	0.1929	0.0648
15.447	1.475	Max.	-0.3946	0.0558	-0.1198
		Min.	-0.6155	-0.1011	-0.1941
		Dif.	0.2208	0.1569	0.0742
15.447	1.690	Max.	-0.4183	-0.0100	-0.1126
		Min.	-0.6107	-0.2038	-0.1782
		Dif.	0.1924	0.1938	0.0656
15.447	1.990	Max.	-0.4540	-0.0100	-0.1126
		Min.	-0.6389	-0.2038	-0.1782
		Dif.	0.1849	0.1938	0.0656
15.447	2.225	Max.	-0.4737	-0.0675	-0.1160
		Min.	-0.6937	-0.2744	-0.1825
		Dif.	0.2200	0.2068	0.0665



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.447	2.475	Max.	-0.5003	-0.1054	-0.1024
		Min.	-0.7610	-0.2922	-0.1607
		Dif.	0.2607	0.1868	0.0583
15.447	2.725	Max.	-0.5307	-0.1309	-0.0877
		Min.	-0.8340	-0.2806	-0.1374
		Dif.	0.3033	0.1496	0.0497
15.447	2.975	Max.	-0.5647	-0.1212	-0.0801
		Min.	-0.8995	-0.2594	-0.1262
		Dif.	0.3349	0.1382	0.0460
15.447	3.225	Max.	-0.5991	-0.0951	-0.0720
		Min.	-0.9569	-0.2390	-0.1154
		Dif.	0.3578	0.1439	0.0435
15.447	3.475	Max.	-0.6305	-0.0549	-0.0631
		Min.	-0.9999	-0.2042	-0.1055
		Dif.	0.3693	0.1493	0.0424
15.447	3.725	Max.	-0.6560	-0.0074	-0.0585
		Min.	-1.0263	-0.1488	-0.1035
		Dif.	0.3704	0.1414	0.0450
15.447	3.975	Max.	-0.6736	0.0318	-0.0536
		Min.	-1.0362	-0.0903	-0.1018
		Dif.	0.3625	0.1221	0.0482
15.447	4.225	Max.	-0.6667	0.0771	-0.0487
		Min.	-1.0429	-0.0163	-0.1002
		Dif.	0.3763	0.0934	0.0515
15.447	4.475	Max.	-0.6421	0.1491	-0.0464
		Min.	-1.0362	0.0409	-0.1022
		Dif.	0.3941	0.1082	0.0558
15.447	4.725	Max.	-0.6069	0.2108	-0.0441
		Min.	-1.0100	0.0869	-0.1043
		Dif.	0.4031	0.1239	0.0601
15.447	4.975	Max.	-0.5640	0.2743	-0.0418
		Min.	-0.9639	0.1398	-0.1063
		Dif.	0.3999	0.1344	0.0645
15.447	5.225	Max.	-0.5136	0.3295	-0.0407
		Min.	-0.8970	0.1936	-0.1078
		Dif.	0.3834	0.1359	0.0671
15.447	5.475	Max.	-0.4590	0.3783	-0.0396
		Min.	-0.8087	0.2258	-0.1094
		Dif.	0.3497	0.1525	0.0698
15.447	5.725	Max.	-0.4013	0.4454	-0.0384
		Min.	-0.7056	0.2341	-0.1110
		Dif.	0.3043	0.2114	0.0726
15.447	5.975	Max.	-0.3423	0.5040	-0.0370
		Min.	-0.5866	0.2367	-0.1037
		Dif.	0.2444	0.2673	0.0667
15.447	6.225	Max.	-0.2827	0.5405	-0.0326
		Min.	-0.4542	0.2320	-0.0994
		Dif.	0.1715	0.3085	0.0668
15.447	6.475	Max.	-0.2236	0.5639	-0.0282
		Min.	-0.3184	0.2193	-0.0952
		Dif.	0.0948	0.3447	0.0670
15.447	6.725	Max.	-0.1363	0.5736	-0.0218
		Min.	-0.2095	0.2001	-0.0758
		Dif.	0.0732	0.3735	0.0541
15.447	6.750	Max.	-0.1273	0.5722	-0.0091
		Min.	-0.1998	0.1965	-0.0481
		Dif.	0.0724	0.3757	0.0391



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.697	0.001	Max.	-0.3844	0.2983	-0.0621
		Min.	-0.9145	0.0609	-0.1147
		Dif.	0.5301	0.2374	0.0526
15.697	0.225	Max.	-0.3707	0.2973	-0.0621
		Min.	-0.8476	0.0603	-0.1147
		Dif.	0.4768	0.2370	0.0526
15.697	0.475	Max.	-0.3559	0.2919	-0.0843
		Min.	-0.7735	0.0563	-0.1405
		Dif.	0.4176	0.2355	0.0562
15.697	0.725	Max.	-0.3520	0.2707	-0.1091
		Min.	-0.7131	0.0406	-0.1710
		Dif.	0.3611	0.2301	0.0619
15.697	0.975	Max.	-0.3282	0.1974	-0.1665
		Min.	-0.6277	-0.0079	-0.2405
		Dif.	0.2995	0.2053	0.0740
15.697	1.225	Max.	-0.3355	0.1464	-0.1892
		Min.	-0.5843	-0.0394	-0.2733
		Dif.	0.2488	0.1858	0.0841
15.697	1.475	Max.	-0.3498	0.0755	-0.2035
		Min.	-0.5543	-0.0827	-0.2914
		Dif.	0.2045	0.1582	0.0880
15.697	1.690	Max.	-0.3661	-0.0171	-0.1919
		Min.	-0.5465	-0.2084	-0.2677
		Dif.	0.1804	0.1913	0.0758
15.697	1.990	Max.	-0.4010	-0.0171	-0.1919
		Min.	-0.5788	-0.2084	-0.2677
		Dif.	0.1779	0.1913	0.0758
15.697	2.225	Max.	-0.4286	-0.0922	-0.1875
		Min.	-0.6398	-0.2989	-0.2644
		Dif.	0.2112	0.2067	0.0769
15.697	2.475	Max.	-0.4624	-0.1245	-0.1684
		Min.	-0.7125	-0.3175	-0.2374
		Dif.	0.2501	0.1930	0.0691
15.697	2.725	Max.	-0.4975	-0.1430	-0.1510
		Min.	-0.7910	-0.3090	-0.2148
		Dif.	0.2935	0.1660	0.0638
15.697	2.975	Max.	-0.5315	-0.1404	-0.1432
		Min.	-0.8566	-0.2806	-0.2038
		Dif.	0.3251	0.1403	0.0607
15.697	3.225	Max.	-0.5766	-0.1008	-0.1211
		Min.	-0.9222	-0.2502	-0.1813
		Dif.	0.3456	0.1494	0.0601
15.697	3.475	Max.	-0.6079	-0.0606	-0.1123
		Min.	-0.9654	-0.2153	-0.1713
		Dif.	0.3575	0.1547	0.0590
15.697	3.725	Max.	-0.6333	-0.0133	-0.1077
		Min.	-0.9918	-0.1597	-0.1692
		Dif.	0.3585	0.1464	0.0615
15.697	3.975	Max.	-0.6546	0.0315	-0.0936
		Min.	-1.0045	-0.0969	-0.1643
		Dif.	0.3499	0.1283	0.0707
15.697	4.225	Max.	-0.6437	0.0762	-0.0884
		Min.	-1.0153	-0.0224	-0.1629
		Dif.	0.3716	0.0986	0.0745
15.697	4.475	Max.	-0.6189	0.1480	-0.0865
		Min.	-1.0088	0.0351	-0.1647
		Dif.	0.3899	0.1129	0.0782



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.697	4.725	Max.	-0.5829	0.2112	-0.0795
		Min.	-0.9843	0.0849	-0.1645
		Dif.	0.4014	0.1262	0.0850
15.697	4.975	Max.	-0.5401	0.2747	-0.0774
		Min.	-0.9382	0.1379	-0.1663
		Dif.	0.3981	0.1368	0.0889
15.697	5.225	Max.	-0.4898	0.3299	-0.0765
		Min.	-0.8711	0.1916	-0.1676
		Dif.	0.3812	0.1383	0.0912
15.697	5.475	Max.	-0.4346	0.3782	-0.0734
		Min.	-0.7835	0.2209	-0.1682
		Dif.	0.3488	0.1574	0.0948
15.697	5.725	Max.	-0.3767	0.4436	-0.0723
		Min.	-0.6805	0.2309	-0.1696
		Dif.	0.3038	0.2127	0.0973
15.697	5.975	Max.	-0.3179	0.5021	-0.0714
		Min.	-0.5613	0.2336	-0.1619
		Dif.	0.2434	0.2685	0.0905
15.697	6.225	Max.	-0.2647	0.5368	-0.0573
		Min.	-0.4315	0.2084	-0.1350
		Dif.	0.1668	0.3285	0.0777
15.697	6.475	Max.	-0.2065	0.5598	-0.0527
		Min.	-0.2947	0.1961	-0.1310
		Dif.	0.0882	0.3637	0.0782
15.697	6.725	Max.	-0.1204	0.5651	-0.0428
		Min.	-0.1906	0.1857	-0.1048
		Dif.	0.0702	0.3794	0.0620
15.697	6.750	Max.	-0.1097	0.5539	-0.0357
		Min.	-0.1774	0.1688	-0.0832
		Dif.	0.0677	0.3851	0.0475
15.947	0.001	Max.	-0.3693	0.3307	-0.1104
		Min.	-0.8852	0.0888	-0.1857
		Dif.	0.5159	0.2419	0.0753
15.947	0.225	Max.	-0.3494	0.3297	-0.1104
		Min.	-0.8109	0.0882	-0.1857
		Dif.	0.4616	0.2416	0.0753
15.947	0.475	Max.	-0.3275	0.3271	-0.1330
		Min.	-0.7287	0.0865	-0.2115
		Dif.	0.4012	0.2406	0.0785
15.947	0.725	Max.	-0.2989	0.3196	-0.1618
		Min.	-0.6390	0.0815	-0.2428
		Dif.	0.3401	0.2381	0.0810
15.947	0.975	Max.	-0.2961	0.2480	-0.2132
		Min.	-0.5786	0.0341	-0.3039
		Dif.	0.2825	0.2139	0.0907
15.947	1.225	Max.	-0.2794	0.1789	-0.2420
		Min.	-0.5068	-0.0112	-0.3352
		Dif.	0.2274	0.1901	0.0932
15.947	1.475	Max.	-0.2866	0.0958	-0.2632
		Min.	-0.4705	-0.0640	-0.3585
		Dif.	0.1839	0.1599	0.0954
15.947	1.690	Max.	-0.2987	-0.0275	-0.2420
		Min.	-0.4591	-0.2237	-0.3267
		Dif.	0.1604	0.1962	0.0847
15.947	1.990	Max.	-0.3352	-0.0275	-0.2420
		Min.	-0.4976	-0.2237	-0.3267
		Dif.	0.1624	0.1962	0.0847



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.947	2.225	Max.	-0.3703	-0.1170	-0.2312
		Min.	-0.5674	-0.3330	-0.3167
		Dif.	0.1971	0.2160	0.0856
15.947	2.475	Max.	-0.4111	-0.1478	-0.2076
		Min.	-0.6480	-0.3452	-0.2889
		Dif.	0.2369	0.1974	0.0812
15.947	2.725	Max.	-0.4515	-0.1609	-0.1891
		Min.	-0.7325	-0.3284	-0.2649
		Dif.	0.2811	0.1675	0.0757
15.947	2.975	Max.	-0.4990	-0.1571	-0.1809
		Min.	-0.8101	-0.2963	-0.2542
		Dif.	0.3111	0.1391	0.0733
15.947	3.225	Max.	-0.5318	-0.1178	-0.1609
		Min.	-0.8661	-0.2766	-0.2336
		Dif.	0.3343	0.1588	0.0727
15.947	3.475	Max.	-0.5742	-0.0665	-0.1423
		Min.	-0.9154	-0.2263	-0.2147
		Dif.	0.3412	0.1598	0.0724
15.947	3.725	Max.	-0.6078	-0.0167	-0.1305
		Min.	-0.9455	-0.1712	-0.2135
		Dif.	0.3377	0.1546	0.0830
15.947	3.975	Max.	-0.6217	0.0260	-0.1240
		Min.	-0.9559	-0.1100	-0.2140
		Dif.	0.3342	0.1360	0.0900
15.947	4.225	Max.	-0.6104	0.0749	-0.1109
		Min.	-0.9745	-0.0280	-0.2021
		Dif.	0.3641	0.1028	0.0912
15.947	4.475	Max.	-0.5858	0.1462	-0.1017
		Min.	-0.9718	0.0294	-0.1988
		Dif.	0.3860	0.1168	0.0971
15.947	4.725	Max.	-0.5498	0.2112	-0.1001
		Min.	-0.9438	0.0783	-0.2042
		Dif.	0.3940	0.1329	0.1041
15.947	4.975	Max.	-0.5063	0.2751	-0.0950
		Min.	-0.9006	0.1359	-0.2001
		Dif.	0.3942	0.1392	0.1051
15.947	5.225	Max.	-0.4551	0.3283	-0.0882
		Min.	-0.8337	0.1895	-0.1921
		Dif.	0.3786	0.1388	0.1039
15.947	5.475	Max.	-0.3988	0.3789	-0.0898
		Min.	-0.7457	0.2221	-0.1954
		Dif.	0.3469	0.1568	0.1055
15.947	5.725	Max.	-0.3421	0.4417	-0.0907
		Min.	-0.6445	0.2277	-0.1957
		Dif.	0.3024	0.2139	0.1050
15.947	5.975	Max.	-0.2861	0.4924	-0.0866
		Min.	-0.5264	0.2137	-0.1780
		Dif.	0.2402	0.2787	0.0915
15.947	6.225	Max.	-0.2276	0.5315	-0.0833
		Min.	-0.3952	0.1954	-0.1559
		Dif.	0.1676	0.3360	0.0726
15.947	6.475	Max.	-0.1781	0.5455	-0.0722
		Min.	-0.2704	0.1744	-0.1507
		Dif.	0.0923	0.3711	0.0785
15.947	6.725	Max.	-0.1017	0.5460	-0.0572
		Min.	-0.1693	0.1614	-0.1196
		Dif.	0.0676	0.3846	0.0624



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.947	6.750	Max.	-0.0943	0.5542	-0.0357
		Min.	-0.1632	0.1686	-0.0832
		Dif.	0.0689	0.3856	0.0475
16.198	0.001	Max.	-0.3434	0.3623	-0.1464
		Min.	-0.8392	0.1167	-0.2405
		Dif.	0.4958	0.2456	0.0941
16.198	0.225	Max.	-0.3172	0.3613	-0.1464
		Min.	-0.7578	0.1161	-0.2405
		Dif.	0.4406	0.2452	0.0941
16.198	0.475	Max.	-0.2828	0.3633	-0.1734
		Min.	-0.6720	0.1119	-0.2700
		Dif.	0.3893	0.2514	0.0966
16.198	0.725	Max.	-0.2552	0.3555	-0.2023
		Min.	-0.5813	0.1072	-0.3014
		Dif.	0.3261	0.2483	0.0991
16.198	0.975	Max.	-0.2320	0.3187	-0.2295
		Min.	-0.4900	0.0882	-0.3343
		Dif.	0.2579	0.2305	0.1048
16.198	1.225	Max.	-0.2153	0.2496	-0.2560
		Min.	-0.4182	0.0429	-0.3680
		Dif.	0.2030	0.2067	0.1121
16.198	1.475	Max.	-0.2130	0.1190	-0.2798
		Min.	-0.3724	-0.0432	-0.3966
		Dif.	0.1594	0.1622	0.1169
16.198	1.690	Max.	-0.2217	-0.0438	-0.2505
		Min.	-0.3569	-0.2539	-0.3626
		Dif.	0.1352	0.2101	0.1122
16.198	1.990	Max.	-0.2641	-0.0438	-0.2507
		Min.	-0.4034	-0.2539	-0.3624
		Dif.	0.1392	0.2101	0.1116
16.198	2.225	Max.	-0.3064	-0.1407	-0.2388
		Min.	-0.4847	-0.3724	-0.3438
		Dif.	0.1782	0.2318	0.1050
16.198	2.475	Max.	-0.3523	-0.1732	-0.2198
		Min.	-0.5756	-0.3698	-0.3163
		Dif.	0.2233	0.1966	0.0965
16.198	2.725	Max.	-0.3987	-0.1815	-0.2028
		Min.	-0.6652	-0.3323	-0.2894
		Dif.	0.2665	0.1508	0.0866
16.198	2.975	Max.	-0.4455	-0.1643	-0.1923
		Min.	-0.7436	-0.3138	-0.2811
		Dif.	0.2982	0.1496	0.0887
16.198	3.225	Max.	-0.4934	-0.1236	-0.1790
		Min.	-0.8081	-0.2877	-0.2673
		Dif.	0.3147	0.1642	0.0883
16.198	3.475	Max.	-0.5358	-0.0724	-0.1616
		Min.	-0.8574	-0.2373	-0.2472
		Dif.	0.3216	0.1649	0.0856
16.198	3.725	Max.	-0.5694	-0.0226	-0.1496
		Min.	-0.8875	-0.1822	-0.2462
		Dif.	0.3181	0.1596	0.0966
16.198	3.975	Max.	-0.5847	0.0245	-0.1367
		Min.	-0.9093	-0.1155	-0.2390
		Dif.	0.3247	0.1400	0.1023
16.198	4.225	Max.	-0.5725	0.0735	-0.1237
		Min.	-0.9288	-0.0335	-0.2271
		Dif.	0.3563	0.1071	0.1035



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.198	4.475	Max.	-0.5480	0.1452	-0.1144
		Min.	-0.9260	0.0235	-0.2238
		Dif.	0.3780	0.1217	0.1093
16.198	4.725	Max.	-0.5133	0.2116	-0.1067
		Min.	-0.9033	0.0763	-0.2188
		Dif.	0.3900	0.1353	0.1121
16.198	4.975	Max.	-0.4698	0.2755	-0.1016
		Min.	-0.8600	0.1339	-0.2147
		Dif.	0.3902	0.1416	0.1130
16.198	5.225	Max.	-0.4185	0.3291	-0.0948
		Min.	-0.7932	0.1871	-0.2067
		Dif.	0.3746	0.1420	0.1119
16.198	5.475	Max.	-0.3630	0.3794	-0.0917
		Min.	-0.7082	0.2167	-0.2019
		Dif.	0.3452	0.1627	0.1102
16.198	5.725	Max.	-0.3062	0.4397	-0.0936
		Min.	-0.6070	0.2246	-0.2012
		Dif.	0.3008	0.2151	0.1076
16.198	5.975	Max.	-0.2502	0.4904	-0.0887
		Min.	-0.4889	0.2107	-0.1844
		Dif.	0.2387	0.2797	0.0957
16.198	6.225	Max.	-0.1982	0.5166	-0.0892
		Min.	-0.3638	0.1844	-0.1678
		Dif.	0.1656	0.3322	0.0786
16.198	6.475	Max.	-0.1476	0.5316	-0.0871
		Min.	-0.2402	0.1625	-0.1535
		Dif.	0.0925	0.3691	0.0664
16.198	6.725	Max.	-0.0779	0.5308	-0.0705
		Min.	-0.1399	0.1339	-0.1228
		Dif.	0.0620	0.3969	0.0523
16.198	6.750	Max.	-0.0696	0.5258	-0.0400
		Min.	-0.1324	0.1247	-0.0740
		Dif.	0.0628	0.4011	0.0341
16.448	0.001	Max.	-0.3039	0.3890	-0.1625
		Min.	-0.7865	0.1363	-0.2710
		Dif.	0.4826	0.2527	0.1085
16.448	0.225	Max.	-0.2733	0.3881	-0.1625
		Min.	-0.6991	0.1357	-0.2710
		Dif.	0.4258	0.2524	0.1085
16.448	0.475	Max.	-0.2394	0.3856	-0.1783
		Min.	-0.6013	0.1347	-0.2864
		Dif.	0.3619	0.2509	0.1081
16.448	0.725	Max.	-0.2117	0.3778	-0.2071
		Min.	-0.5107	0.1300	-0.3177
		Dif.	0.2990	0.2478	0.1107
16.448	0.975	Max.	-0.1633	0.3036	-0.2298
		Min.	-0.3932	0.0869	-0.3507
		Dif.	0.2299	0.2167	0.1209
16.448	1.225	Max.	-0.1464	0.2346	-0.2562
		Min.	-0.3216	0.0416	-0.3846
		Dif.	0.1752	0.1930	0.1283
16.448	1.475	Max.	-0.1402	0.1364	-0.2631
		Min.	-0.2693	-0.0252	-0.3999
		Dif.	0.1291	0.1616	0.1369
16.448	1.690	Max.	-0.1428	-0.0731	-0.2227
		Min.	-0.2453	-0.3133	-0.3636
		Dif.	0.1025	0.2401	0.1409



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.448	1.990	Max.	-0.1964	-0.0731	-0.2227
		Min.	-0.3072	-0.3133	-0.3636
		Dif.	0.1109	0.2401	0.1409
16.448	2.225	Max.	-0.2437	-0.1638	-0.2229
		Min.	-0.4005	-0.4002	-0.3412
		Dif.	0.1568	0.2364	0.1183
16.448	2.475	Max.	-0.2908	-0.1943	-0.2143
		Min.	-0.5009	-0.3832	-0.3208
		Dif.	0.2102	0.1890	0.1065
16.448	2.725	Max.	-0.3427	-0.2042	-0.2023
		Min.	-0.5932	-0.3460	-0.3026
		Dif.	0.2506	0.1418	0.1003
16.448	2.975	Max.	-0.3953	-0.1743	-0.1882
		Min.	-0.6739	-0.3282	-0.2843
		Dif.	0.2787	0.1539	0.0961
16.448	3.225	Max.	-0.4471	-0.1313	-0.1740
		Min.	-0.7407	-0.3016	-0.2697
		Dif.	0.2936	0.1703	0.0956
16.448	3.475	Max.	-0.4931	-0.0806	-0.1596
		Min.	-0.7928	-0.2566	-0.2564
		Dif.	0.2997	0.1760	0.0968
16.448	3.725	Max.	-0.5320	-0.0313	-0.1419
		Min.	-0.8247	-0.1966	-0.2442
		Dif.	0.2927	0.1654	0.1023
16.448	3.975	Max.	-0.5414	0.0169	-0.1270
		Min.	-0.8580	-0.1272	-0.2332
		Dif.	0.3166	0.1441	0.1062
16.448	4.225	Max.	-0.5310	0.0654	-0.1142
		Min.	-0.8803	-0.0470	-0.2231
		Dif.	0.3493	0.1124	0.1088
16.448	4.475	Max.	-0.5084	0.1357	-0.1020
		Min.	-0.8813	0.0139	-0.2114
		Dif.	0.3729	0.1218	0.1094
16.448	4.725	Max.	-0.4751	0.2043	-0.0926
		Min.	-0.8610	0.0696	-0.2016
		Dif.	0.3859	0.1346	0.1091
16.448	4.975	Max.	-0.4325	0.2665	-0.0854
		Min.	-0.8192	0.1271	-0.1934
		Dif.	0.3867	0.1394	0.1080
16.448	5.225	Max.	-0.3818	0.3176	-0.0782
		Min.	-0.7562	0.1825	-0.1830
		Dif.	0.3744	0.1351	0.1047
16.448	5.475	Max.	-0.3279	0.3704	-0.0733
		Min.	-0.6719	0.2153	-0.1747
		Dif.	0.3440	0.1551	0.1013
16.448	5.725	Max.	-0.2712	0.4321	-0.0696
		Min.	-0.5713	0.2177	-0.1689
		Dif.	0.3002	0.2144	0.0992
16.448	5.975	Max.	-0.2170	0.4828	-0.0616
		Min.	-0.4553	0.2009	-0.1638
		Dif.	0.2383	0.2818	0.1022
16.448	6.225	Max.	-0.1689	0.5126	-0.0585
		Min.	-0.3290	0.1697	-0.1548
		Dif.	0.1601	0.3429	0.0963
16.448	6.475	Max.	-0.1210	0.5235	-0.0606
		Min.	-0.2070	0.1347	-0.1289
		Dif.	0.0860	0.3887	0.0683



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.448	6.725	Max.	-0.0545	0.5197	-0.0446
		Min.	-0.1120	0.1089	-0.0829
		Dif.	0.0575	0.4108	0.0383
16.448	6.750	Max.	-0.0438	0.4964	0.0083
		Min.	-0.0991	0.0779	-0.0330
		Dif.	0.0553	0.4185	0.0413
16.600	2.225	Max.	-0.2031	-0.1675	-0.1938
		Min.	-0.3555	-0.4010	-0.3275
		Dif.	0.1524	0.2335	0.1337
16.600	2.475	Max.	-0.2528	-0.2017	-0.1898
		Min.	-0.4559	-0.3785	-0.3067
		Dif.	0.2031	0.1769	0.1168
16.600	2.725	Max.	-0.3078	-0.2183	-0.1777
		Min.	-0.5485	-0.3443	-0.2848
		Dif.	0.2407	0.1260	0.1071
16.600	2.975	Max.	-0.3642	-0.1823	-0.1609
		Min.	-0.6302	-0.3360	-0.2628
		Dif.	0.2661	0.1537	0.1019
16.600	3.225	Max.	-0.4176	-0.1386	-0.1439
		Min.	-0.6996	-0.3108	-0.2416
		Dif.	0.2820	0.1723	0.0977
16.600	3.475	Max.	-0.4675	-0.0930	-0.1249
		Min.	-0.7513	-0.2668	-0.2236
		Dif.	0.2838	0.1738	0.0987
16.600	3.725	Max.	-0.5091	-0.0453	-0.1057
		Min.	-0.7854	-0.2086	-0.2063
		Dif.	0.2763	0.1633	0.1006
16.600	3.975	Max.	-0.5145	0.0028	-0.0885
		Min.	-0.8268	-0.1389	-0.1894
		Dif.	0.3123	0.1417	0.1009
16.600	4.225	Max.	-0.5053	0.0495	-0.0735
		Min.	-0.8512	-0.0607	-0.1730
		Dif.	0.3459	0.1102	0.0994
16.600	4.475	Max.	-0.4842	0.1146	-0.0603
		Min.	-0.8546	0.0023	-0.1562
		Dif.	0.3703	0.1122	0.0959
16.600	4.725	Max.	-0.4520	0.1817	-0.0492
		Min.	-0.8362	0.0591	-0.1397
		Dif.	0.3842	0.1226	0.0905
16.600	4.975	Max.	-0.4104	0.2406	-0.0400
		Min.	-0.7957	0.1161	-0.1234
		Dif.	0.3853	0.1245	0.0834
16.600	5.225	Max.	-0.3612	0.2880	-0.0324
		Min.	-0.7338	0.1712	-0.1067
		Dif.	0.3726	0.1168	0.0743
16.600	5.475	Max.	-0.3074	0.3469	-0.0217
		Min.	-0.6514	0.1962	-0.0946
		Dif.	0.3440	0.1507	0.0729
16.600	5.725	Max.	-0.2516	0.4097	-0.0060
		Min.	-0.5512	0.1930	-0.0887
		Dif.	0.2997	0.2167	0.0828
16.600	5.975	Max.	-0.1974	0.4589	0.0146
		Min.	-0.4361	0.1729	-0.0880
		Dif.	0.2386	0.2860	0.1027
16.600	6.225	Max.	-0.1493	0.4916	0.0492
		Min.	-0.3095	0.1321	-0.1000
		Dif.	0.1602	0.3594	0.1491



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.600	6.475	Max.	-0.1026	0.5013	0.1212
		Min.	-0.1888	0.0832	-0.1488
		Dif.	0.0861	0.4181	0.2700
16.600	6.725	Max.	-0.0376	0.5013	0.1206
		Min.	-0.1083	0.0832	-0.1482
		Dif.	0.0707	0.4181	0.2688
16.698	0.001	Max.	-0.2673	0.4057	-0.1681
		Min.	-0.7198	0.1543	-0.2863
		Dif.	0.4526	0.2515	0.1182
16.698	0.225	Max.	-0.2326	0.4048	-0.1681
		Min.	-0.6287	0.1537	-0.2863
		Dif.	0.3961	0.2511	0.1182
16.698	0.475	Max.	-0.1942	0.4035	-0.1808
		Min.	-0.5268	0.1538	-0.2976
		Dif.	0.3325	0.2497	0.1168
16.698	0.725	Max.	-0.1539	0.3990	-0.1842
		Min.	-0.4186	0.1570	-0.2961
		Dif.	0.2647	0.2420	0.1119
16.698	0.975	Max.	-0.1150	0.3315	-0.2171
		Min.	-0.3164	0.1138	-0.3420
		Dif.	0.2014	0.2177	0.1249
16.698	1.225	Max.	-0.0835	0.2510	-0.2177
		Min.	-0.2311	0.0606	-0.3436
		Dif.	0.1477	0.1904	0.1259
16.698	1.475	Max.	-0.0721	0.1464	-0.2214
		Min.	-0.1745	-0.0114	-0.3553
		Dif.	0.1024	0.1578	0.1339
16.698	1.690	Max.	-0.0712	-0.1197	-0.1865
		Min.	-0.1398	-0.4112	-0.3439
		Dif.	0.0687	0.2915	0.1574
16.900	2.225	Max.	-0.1340	-0.1681	-0.1938
		Min.	-0.2683	-0.4003	-0.3275
		Dif.	0.1344	0.2322	0.1337
16.900	2.475	Max.	-0.1891	-0.2018	-0.1898
		Min.	-0.3707	-0.3784	-0.3067
		Dif.	0.1816	0.1765	0.1168
16.900	2.725	Max.	-0.2506	-0.2183	-0.1777
		Min.	-0.4670	-0.3443	-0.2848
		Dif.	0.2164	0.1260	0.1071
16.900	2.975	Max.	-0.3136	-0.1823	-0.1609
		Min.	-0.5537	-0.3360	-0.2628
		Dif.	0.2400	0.1537	0.1019
16.900	3.225	Max.	-0.3740	-0.1386	-0.1439
		Min.	-0.6275	-0.3108	-0.2416
		Dif.	0.2535	0.1723	0.0977
16.900	3.475	Max.	-0.4301	-0.0930	-0.1249
		Min.	-0.6842	-0.2668	-0.2236
		Dif.	0.2542	0.1738	0.0987
16.900	3.725	Max.	-0.4644	-0.0450	-0.1055
		Min.	-0.7367	-0.2088	-0.2064
		Dif.	0.2722	0.1638	0.1010
16.900	3.975	Max.	-0.4717	0.0028	-0.0885
		Min.	-0.7865	-0.1389	-0.1894
		Dif.	0.3148	0.1417	0.1009
16.900	4.225	Max.	-0.4664	0.0495	-0.0735
		Min.	-0.8164	-0.0607	-0.1730
		Dif.	0.3500	0.1102	0.0994



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.900	4.475	Max.	-0.4493	0.1146	-0.0603
		Min.	-0.8247	0.0023	-0.1562
		Dif.	0.3754	0.1122	0.0959
16.900	4.725	Max.	-0.4210	0.1817	-0.0492
		Min.	-0.8108	0.0591	-0.1397
		Dif.	0.3898	0.1226	0.0905
16.900	4.975	Max.	-0.3832	0.2406	-0.0401
		Min.	-0.7741	0.1161	-0.1234
		Dif.	0.3910	0.1245	0.0833
16.900	5.225	Max.	-0.3378	0.2880	-0.0324
		Min.	-0.7157	0.1712	-0.1067
		Dif.	0.3779	0.1168	0.0743
16.900	5.475	Max.	-0.2876	0.3469	-0.0217
		Min.	-0.6365	0.1962	-0.0946
		Dif.	0.3489	0.1507	0.0729
16.900	5.725	Max.	-0.2356	0.4096	-0.0060
		Min.	-0.5390	0.1931	-0.0887
		Dif.	0.3034	0.2166	0.0828
16.900	5.975	Max.	-0.1852	0.4587	0.0146
		Min.	-0.4264	0.1731	-0.0880
		Dif.	0.2412	0.2856	0.1027
16.900	6.225	Max.	-0.1410	0.4911	0.0492
		Min.	-0.3028	0.1326	-0.1000
		Dif.	0.1619	0.3584	0.1491
16.900	6.475	Max.	-0.0954	0.5013	0.1206
		Min.	-0.1881	0.0832	-0.1482
		Dif.	0.0927	0.4181	0.2688
16.900	6.725	Max.	-0.0359	0.5013	0.1206
		Min.	-0.1021	0.0832	-0.1482
		Dif.	0.0662	0.4181	0.2688
16.948	0.001	Max.	-0.2287	0.4157	-0.1644
		Min.	-0.6497	0.1668	-0.2872
		Dif.	0.4210	0.2488	0.1228
16.948	0.225	Max.	-0.1913	0.4147	-0.1644
		Min.	-0.5564	0.1662	-0.2872
		Dif.	0.3651	0.2485	0.1228
16.948	0.475	Max.	-0.1494	0.4182	-0.1713
		Min.	-0.4512	0.1710	-0.2891
		Dif.	0.3018	0.2472	0.1178
16.948	0.725	Max.	-0.1084	0.4144	-0.1748
		Min.	-0.3436	0.1734	-0.2877
		Dif.	0.2353	0.2409	0.1129
16.948	0.975	Max.	-0.0647	0.3780	-0.1754
		Min.	-0.2403	0.1503	-0.2892
		Dif.	0.1755	0.2277	0.1138
16.948	1.225	Max.	-0.0331	0.2977	-0.1760
		Min.	-0.1551	0.0970	-0.2907
		Dif.	0.1220	0.2007	0.1147
16.948	1.475	Max.	-0.0193	0.1426	-0.1714
		Min.	-0.0972	-0.0093	-0.2873
		Dif.	0.0779	0.1519	0.1159
16.948	1.690	Max.	-0.0198	-0.1011	-0.1802
		Min.	-0.0718	-0.3635	-0.3244
		Dif.	0.0520	0.2624	0.1442
16.948	1.990	Max.	-0.0762	-0.1038	-0.1795
		Min.	-0.1545	-0.3608	-0.3252
		Dif.	0.0783	0.2570	0.1457



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.948	2.225	Max.	-0.1246	-0.1967	-0.1832
		Min.	-0.2533	-0.4127	-0.3070
		Dif.	0.1287	0.2160	0.1237
16.948	2.475	Max.	-0.1807	-0.2338	-0.1722
		Min.	-0.3576	-0.4014	-0.2885
		Dif.	0.1769	0.1676	0.1163
16.948	2.725	Max.	-0.2440	-0.2356	-0.1557
		Min.	-0.4552	-0.3853	-0.2640
		Dif.	0.2112	0.1497	0.1083
16.948	2.975	Max.	-0.3074	-0.1975	-0.1370
		Min.	-0.5444	-0.3769	-0.2377
		Dif.	0.2370	0.1793	0.1008
16.948	3.225	Max.	-0.3703	-0.1540	-0.1159
		Min.	-0.6185	-0.3469	-0.2142
		Dif.	0.2482	0.1929	0.0983
16.948	3.475	Max.	-0.4273	-0.1069	-0.0942
		Min.	-0.6768	-0.2991	-0.1932
		Dif.	0.2495	0.1921	0.0990
16.948	3.725	Max.	-0.4591	-0.0571	-0.0738
		Min.	-0.7340	-0.2371	-0.1728
		Dif.	0.2749	0.1800	0.0991
16.948	3.975	Max.	-0.4673	-0.0074	-0.0559
		Min.	-0.7850	-0.1626	-0.1524
		Dif.	0.3177	0.1552	0.0964
16.948	4.225	Max.	-0.4630	0.0412	-0.0401
		Min.	-0.8161	-0.0801	-0.1325
		Dif.	0.3531	0.1212	0.0924
16.948	4.475	Max.	-0.4467	0.1050	-0.0264
		Min.	-0.8254	-0.0095	-0.1127
		Dif.	0.3787	0.1145	0.0863
16.948	4.725	Max.	-0.4194	0.1745	-0.0148
		Min.	-0.8122	0.0510	-0.0925
		Dif.	0.3928	0.1235	0.0777
16.948	4.975	Max.	-0.3826	0.2360	-0.0053
		Min.	-0.7763	0.1113	-0.0718
		Dif.	0.3937	0.1246	0.0665
16.948	5.225	Max.	-0.3382	0.2863	0.0025
		Min.	-0.7185	0.1693	-0.0505
		Dif.	0.3802	0.1170	0.0530
16.948	5.475	Max.	-0.2882	0.3490	0.0125
		Min.	-0.6409	0.1963	-0.0323
		Dif.	0.3527	0.1527	0.0448
16.948	5.725	Max.	-0.2380	0.4154	0.0274
		Min.	-0.5433	0.1953	-0.0196
		Dif.	0.3054	0.2201	0.0469
16.948	5.975	Max.	-0.1893	0.4672	0.0485
		Min.	-0.4312	0.1779	-0.0136
		Dif.	0.2419	0.2893	0.0621
16.948	6.225	Max.	-0.1470	0.4999	0.0716
		Min.	-0.3082	0.1427	-0.0125
		Dif.	0.1612	0.3572	0.0841
16.948	6.475	Max.	-0.1064	0.5099	0.0839
		Min.	-0.1896	0.1021	-0.0137
		Dif.	0.0832	0.4078	0.0976
16.948	6.725	Max.	-0.0431	0.5099	0.0592
		Min.	-0.1038	0.0807	-0.0129
		Dif.	0.0607	0.4291	0.0721



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.948	6.750	Max.	-0.0330	0.4961	0.0083
		Min.	-0.0977	0.0783	-0.0330
		Dif.	0.0646	0.4178	0.0413
17.198	0.001	Max.	-0.1892	0.4127	-0.1533
		Min.	-0.5779	0.1691	-0.2776
		Dif.	0.3887	0.2436	0.1243
17.198	0.225	Max.	-0.1512	0.4118	-0.1533
		Min.	-0.4853	0.1685	-0.2776
		Dif.	0.3340	0.2433	0.1243
17.198	0.475	Max.	-0.1090	0.4105	-0.1524
		Min.	-0.3817	0.1686	-0.2713
		Dif.	0.2727	0.2419	0.1188
17.198	0.725	Max.	-0.0660	0.4080	-0.1562
		Min.	-0.2763	0.1697	-0.2695
		Dif.	0.2103	0.2382	0.1133
17.198	0.975	Max.	-0.0224	0.3173	-0.1379
		Min.	-0.1750	0.1137	-0.2357
		Dif.	0.1526	0.2036	0.0978
17.198	1.225	Max.	0.0082	0.2365	-0.1397
		Min.	-0.0888	0.0607	-0.2360
		Dif.	0.0971	0.1758	0.0963
17.198	1.475	Max.	0.0201	0.1249	-0.1312
		Min.	-0.0414	-0.0153	-0.2196
		Dif.	0.0615	0.1402	0.0885
17.198	1.690	Max.	0.0209	-0.0843	-0.1510
		Min.	-0.0277	-0.2695	-0.2371
		Dif.	0.0486	0.1852	0.0860
17.198	1.990	Max.	-0.0215	-0.0843	-0.1509
		Min.	-0.0913	-0.2695	-0.2372
		Dif.	0.0698	0.1852	0.0863
17.198	2.225	Max.	-0.0749	-0.2147	-0.1567
		Min.	-0.1872	-0.4086	-0.2518
		Dif.	0.1123	0.1939	0.0951
17.198	2.475	Max.	-0.1376	-0.2544	-0.1451
		Min.	-0.2923	-0.4215	-0.2464
		Dif.	0.1547	0.1671	0.1013
17.198	2.725	Max.	-0.2065	-0.2508	-0.1279
		Min.	-0.3952	-0.4204	-0.2280
		Dif.	0.1887	0.1695	0.1001
17.198	2.975	Max.	-0.2777	-0.2158	-0.1046
		Min.	-0.4888	-0.4107	-0.2074
		Dif.	0.2111	0.1949	0.1028
17.198	3.225	Max.	-0.3461	-0.1725	-0.0816
		Min.	-0.5693	-0.3786	-0.1849
		Dif.	0.2232	0.2060	0.1032
17.198	3.475	Max.	-0.4013	-0.1246	-0.0598
		Min.	-0.6409	-0.3288	-0.1622
		Dif.	0.2396	0.2042	0.1024
17.198	3.725	Max.	-0.4285	-0.0743	-0.0389
		Min.	-0.7138	-0.2640	-0.1399
		Dif.	0.2853	0.1897	0.1010
17.198	3.975	Max.	-0.4410	-0.0240	-0.0208
		Min.	-0.7706	-0.1866	-0.1174
		Dif.	0.3296	0.1626	0.0966
17.198	4.225	Max.	-0.4408	0.0249	-0.0048
		Min.	-0.8069	-0.1011	-0.0950
		Dif.	0.3661	0.1260	0.0902



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.198	4.475	Max.	-0.4287	0.0842	0.0090
		Min.	-0.8209	-0.0229	-0.0728
		Dif.	0.3922	0.1072	0.0817
17.198	4.725	Max.	-0.4059	0.1533	0.0204
		Min.	-0.8117	0.0402	-0.0496
		Dif.	0.4058	0.1132	0.0700
17.198	4.975	Max.	-0.3738	0.2145	0.0302
		Min.	-0.7793	0.1030	-0.0250
		Dif.	0.4055	0.1114	0.0552
17.198	5.225	Max.	-0.3344	0.2699	0.0424
		Min.	-0.7244	0.1581	-0.0050
		Dif.	0.3901	0.1118	0.0475
17.198	5.475	Max.	-0.2888	0.3409	0.0531
		Min.	-0.6501	0.1785	0.0154
		Dif.	0.3612	0.1624	0.0377
17.198	5.725	Max.	-0.2439	0.4094	0.0655
		Min.	-0.5550	0.1782	0.0329
		Dif.	0.3111	0.2312	0.0327
17.198	5.975	Max.	-0.2002	0.4633	0.0775
		Min.	-0.4448	0.1642	0.0454
		Dif.	0.2445	0.2991	0.0321
17.198	6.225	Max.	-0.1615	0.5003	0.0889
		Min.	-0.3238	0.1360	0.0493
		Dif.	0.1623	0.3644	0.0397
17.198	6.475	Max.	-0.1192	0.5164	0.0903
		Min.	-0.2081	0.1057	0.0461
		Dif.	0.0889	0.4107	0.0442
17.198	6.725	Max.	-0.0524	0.5210	0.0775
		Min.	-0.1233	0.0827	0.0349
		Dif.	0.0709	0.4383	0.0426
17.198	6.750	Max.	-0.0454	0.5300	0.0600
		Min.	-0.1199	0.0845	0.0208
		Dif.	0.0746	0.4454	0.0392
17.448	0.001	Max.	-0.1515	0.4036	-0.1383
		Min.	-0.5080	0.1662	-0.2602
		Dif.	0.3564	0.2374	0.1219
17.448	0.225	Max.	-0.1142	0.4027	-0.1383
		Min.	-0.4173	0.1656	-0.2602
		Dif.	0.3031	0.2371	0.1219
17.448	0.475	Max.	-0.0728	0.3996	-0.1350
		Min.	-0.3163	0.1643	-0.2508
		Dif.	0.2435	0.2353	0.1158
17.448	0.725	Max.	-0.0340	0.3855	-0.1250
		Min.	-0.2213	0.1574	-0.2308
		Dif.	0.1872	0.2281	0.1058
17.448	0.975	Max.	0.0129	0.2995	-0.1120
		Min.	-0.1108	0.1026	-0.2017
		Dif.	0.1237	0.1969	0.0897
17.448	1.225	Max.	0.0387	0.2194	-0.1018
		Min.	-0.0379	0.0543	-0.1820
		Dif.	0.0766	0.1652	0.0801
17.448	1.475	Max.	0.0531	0.1104	-0.1033
		Min.	0.0007	-0.0147	-0.1724
		Dif.	0.0524	0.1251	0.0691
17.448	1.690	Max.	0.0549	-0.0832	-0.1215
		Min.	0.0103	-0.2259	-0.1736
		Dif.	0.0446	0.1427	0.0521



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.448	1.990	Max.	0.0177	-0.0832	-0.1213
		Min.	-0.0451	-0.2259	-0.1738
		Dif.	0.0628	0.1427	0.0526
17.448	2.225	Max.	-0.0358	-0.2253	-0.1275
		Min.	-0.1349	-0.3922	-0.1887
		Dif.	0.0991	0.1670	0.0612
17.448	2.475	Max.	-0.1029	-0.2665	-0.1145
		Min.	-0.2379	-0.4309	-0.1981
		Dif.	0.1350	0.1644	0.0837
17.448	2.725	Max.	-0.1773	-0.2612	-0.0968
		Min.	-0.3431	-0.4462	-0.1938
		Dif.	0.1658	0.1850	0.0970
17.448	2.975	Max.	-0.2539	-0.2307	-0.0769
		Min.	-0.4417	-0.4382	-0.1811
		Dif.	0.1878	0.2075	0.1042
17.448	3.225	Max.	-0.3240	-0.1885	-0.0561
		Min.	-0.5316	-0.4065	-0.1629
		Dif.	0.2075	0.2180	0.1069
17.448	3.475	Max.	-0.3721	-0.1399	-0.0334
		Min.	-0.6213	-0.3572	-0.1438
		Dif.	0.2492	0.2173	0.1104
17.448	3.725	Max.	-0.4020	-0.0910	-0.0154
		Min.	-0.7024	-0.2884	-0.1220
		Dif.	0.3005	0.1974	0.1066
17.448	3.975	Max.	-0.4188	-0.0408	0.0015
		Min.	-0.7651	-0.2087	-0.1009
		Dif.	0.3463	0.1679	0.1024
17.448	4.225	Max.	-0.4230	0.0076	0.0171
		Min.	-0.8067	-0.1210	-0.0790
		Dif.	0.3837	0.1286	0.0961
17.448	4.475	Max.	-0.4153	0.0619	0.0297
		Min.	-0.8253	-0.0352	-0.0565
		Dif.	0.4101	0.0971	0.0863
17.448	4.725	Max.	-0.3970	0.1295	0.0401
		Min.	-0.8203	0.0302	-0.0334
		Dif.	0.4232	0.0993	0.0735
17.448	4.975	Max.	-0.3701	0.1894	0.0534
		Min.	-0.7915	0.0948	-0.0121
		Dif.	0.4214	0.0946	0.0655
17.448	5.225	Max.	-0.3359	0.2540	0.0644
		Min.	-0.7394	0.1434	0.0085
		Dif.	0.4035	0.1106	0.0560
17.448	5.475	Max.	-0.2959	0.3320	0.0738
		Min.	-0.6673	0.1579	0.0286
		Dif.	0.3714	0.1741	0.0452
17.448	5.725	Max.	-0.2564	0.4030	0.0829
		Min.	-0.5744	0.1588	0.0469
		Dif.	0.3181	0.2442	0.0361
17.448	5.975	Max.	-0.2172	0.4606	0.0960
		Min.	-0.4654	0.1506	0.0535
		Dif.	0.2482	0.3100	0.0425
17.448	6.225	Max.	-0.1815	0.5016	0.1084
		Min.	-0.3443	0.1320	0.0494
		Dif.	0.1628	0.3696	0.0589
17.448	6.475	Max.	-0.1408	0.5273	0.1091
		Min.	-0.2252	0.1126	0.0418
		Dif.	0.0843	0.4147	0.0673



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.448	6.725	Max.	-0.0619	0.5403	0.0898
		Min.	-0.1438	0.0954	0.0337
		Dif.	0.0819	0.4449	0.0561
17.448	6.750	Max.	-0.0506	0.5297	0.0600
		Min.	-0.1349	0.0848	0.0208
		Dif.	0.0843	0.4449	0.0392
17.698	0.001	Max.	-0.1172	0.3895	-0.1193
		Min.	-0.4423	0.1596	-0.2335
		Dif.	0.3251	0.2299	0.1142
17.698	0.225	Max.	-0.0813	0.3886	-0.1193
		Min.	-0.3548	0.1590	-0.2335
		Dif.	0.2735	0.2296	0.1142
17.698	0.475	Max.	-0.0413	0.3838	-0.1102
		Min.	-0.2572	0.1573	-0.2144
		Dif.	0.2159	0.2266	0.1042
17.698	0.725	Max.	-0.0025	0.3698	-0.1002
		Min.	-0.1622	0.1503	-0.1944
		Dif.	0.1597	0.2195	0.0941
17.698	0.975	Max.	0.0343	0.3284	-0.0902
		Min.	-0.0712	0.1260	-0.1744
		Dif.	0.1055	0.2024	0.0842
17.698	1.225	Max.	0.0620	0.2484	-0.0801
		Min.	-0.0002	0.0775	-0.1544
		Dif.	0.0622	0.1709	0.0743
17.698	1.475	Max.	0.0781	0.1000	-0.0767
		Min.	0.0362	-0.0120	-0.1353
		Dif.	0.0419	0.1120	0.0586
17.698	1.690	Max.	0.0797	-0.0879	-0.0885
		Min.	0.0428	-0.2015	-0.1276
		Dif.	0.0369	0.1135	0.0391
17.698	1.990	Max.	0.0456	-0.0879	-0.0885
		Min.	-0.0099	-0.2015	-0.1276
		Dif.	0.0556	0.1135	0.0391
17.698	2.225	Max.	-0.0075	-0.2309	-0.0913
		Min.	-0.0947	-0.3761	-0.1424
		Dif.	0.0872	0.1452	0.0511
17.698	2.475	Max.	-0.0763	-0.2704	-0.0819
		Min.	-0.1955	-0.4349	-0.1549
		Dif.	0.1192	0.1645	0.0730
17.698	2.725	Max.	-0.1549	-0.2636	-0.0664
		Min.	-0.3006	-0.4647	-0.1565
		Dif.	0.1457	0.2012	0.0901
17.698	2.975	Max.	-0.2329	-0.2392	-0.0574
		Min.	-0.4040	-0.4595	-0.1589
		Dif.	0.1711	0.2203	0.1014
17.698	3.225	Max.	-0.2977	-0.2010	-0.0388
		Min.	-0.5081	-0.4305	-0.1473
		Dif.	0.2105	0.2295	0.1086
17.698	3.475	Max.	-0.3449	-0.1542	-0.0109
		Min.	-0.6093	-0.3823	-0.1281
		Dif.	0.2645	0.2281	0.1171
17.698	3.725	Max.	-0.3781	-0.1045	-0.0017
		Min.	-0.6961	-0.3086	-0.1138
		Dif.	0.3179	0.2040	0.1121
17.698	3.975	Max.	-0.3986	-0.0553	0.0130
		Min.	-0.7637	-0.2280	-0.0971
		Dif.	0.3651	0.1728	0.1101



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.698	4.225	Max.	-0.4069	-0.0094	0.0318
		Min.	-0.8106	-0.1403	-0.0808
		Dif.	0.4037	0.1308	0.1126
17.698	4.475	Max.	-0.4034	0.0415	0.0387
		Min.	-0.8333	-0.0451	-0.0564
		Dif.	0.4299	0.0866	0.0950
17.698	4.725	Max.	-0.3894	0.1079	0.0473
		Min.	-0.8318	0.0215	-0.0355
		Dif.	0.4424	0.0864	0.0828
17.698	4.975	Max.	-0.3672	0.1638	0.0566
		Min.	-0.8067	0.0866	-0.0194
		Dif.	0.4394	0.0771	0.0760
17.698	5.225	Max.	-0.3381	0.2430	0.0665
		Min.	-0.7573	0.1273	0.0064
		Dif.	0.4192	0.1157	0.0601
17.698	5.475	Max.	-0.3036	0.3249	0.0755
		Min.	-0.6865	0.1398	0.0229
		Dif.	0.3829	0.1850	0.0526
17.698	5.725	Max.	-0.2689	0.3982	0.0823
		Min.	-0.5953	0.1393	0.0296
		Dif.	0.3264	0.2589	0.0527
17.698	5.975	Max.	-0.2337	0.4598	0.0956
		Min.	-0.4869	0.1392	0.0421
		Dif.	0.2532	0.3207	0.0535
17.698	6.225	Max.	-0.2001	0.5047	0.1042
		Min.	-0.3653	0.1281	0.0407
		Dif.	0.1652	0.3766	0.0636
17.698	6.475	Max.	-0.1636	0.5347	0.1024
		Min.	-0.2408	0.1138	0.0316
		Dif.	0.0773	0.4210	0.0708
17.698	6.725	Max.	-0.0742	0.5504	0.0942
		Min.	-0.1674	0.0970	0.0278
		Dif.	0.0932	0.4534	0.0663
17.698	6.750	Max.	-0.0655	0.5544	0.0748
		Min.	-0.1613	0.0930	0.0210
		Dif.	0.0958	0.4614	0.0538
17.948	0.001	Max.	-0.0857	0.3677	-0.1008
		Min.	-0.3828	0.1493	-0.2053
		Dif.	0.2970	0.2184	0.1045
17.948	0.225	Max.	-0.0521	0.3667	-0.1008
		Min.	-0.3003	0.1487	-0.2053
		Dif.	0.2482	0.2180	0.1045
17.948	0.475	Max.	-0.0149	0.3634	-0.0914
		Min.	-0.2088	0.1469	-0.1876
		Dif.	0.1940	0.2165	0.0962
17.948	0.725	Max.	0.0249	0.3504	-0.0813
		Min.	-0.1149	0.1389	-0.1677
		Dif.	0.1398	0.2116	0.0864
17.948	0.975	Max.	0.0536	0.2644	-0.0631
		Min.	-0.0376	0.0927	-0.1387
		Dif.	0.0912	0.1717	0.0756
17.948	1.225	Max.	0.0814	0.1848	-0.0524
		Min.	0.0333	0.0440	-0.1194
		Dif.	0.0480	0.1408	0.0670
17.948	1.475	Max.	0.0935	0.0839	-0.0449
		Min.	0.0638	-0.0136	-0.1036
		Dif.	0.0296	0.0975	0.0587



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.948	1.690	Max.	0.0952	-0.0928	-0.0500
		Min.	0.0693	-0.1851	-0.0938
		Dif.	0.0259	0.0923	0.0438
17.948	1.990	Max.	0.0642	-0.0928	-0.0500
		Min.	0.0170	-0.1851	-0.0938
		Dif.	0.0473	0.0923	0.0438
17.948	2.225	Max.	0.0107	-0.2340	-0.0546
		Min.	-0.0637	-0.3622	-0.1062
		Dif.	0.0744	0.1282	0.0517
17.948	2.475	Max.	-0.0597	-0.2661	-0.0505
		Min.	-0.1610	-0.4369	-0.1183
		Dif.	0.1013	0.1708	0.0678
17.948	2.725	Max.	-0.1371	-0.2655	-0.0454
		Min.	-0.2673	-0.4676	-0.1258
		Dif.	0.1302	0.2020	0.0805
17.948	2.975	Max.	-0.2108	-0.2412	-0.0364
		Min.	-0.3752	-0.4623	-0.1281
		Dif.	0.1644	0.2211	0.0917
17.948	3.225	Max.	-0.2751	-0.2008	-0.0230
		Min.	-0.4987	-0.4422	-0.1423
		Dif.	0.2236	0.2413	0.1192
17.948	3.475	Max.	-0.3208	-0.1555	0.0033
		Min.	-0.6014	-0.3925	-0.1214
		Dif.	0.2805	0.2370	0.1247
17.948	3.725	Max.	-0.3541	-0.1056	0.0128
		Min.	-0.6882	-0.3190	-0.1074
		Dif.	0.3341	0.2133	0.1202
17.948	3.975	Max.	-0.3819	-0.0618	0.0190
		Min.	-0.7678	-0.2363	-0.1090
		Dif.	0.3859	0.1745	0.1280
17.948	4.225	Max.	-0.3902	-0.0160	0.0378
		Min.	-0.8146	-0.1485	-0.0927
		Dif.	0.4244	0.1326	0.1305
17.948	4.475	Max.	-0.3867	0.0332	0.0446
		Min.	-0.8374	-0.0515	-0.0684
		Dif.	0.4506	0.0847	0.1130
17.948	4.725	Max.	-0.3835	0.0921	0.0461
		Min.	-0.8443	0.0204	-0.0592
		Dif.	0.4608	0.0718	0.1052
17.948	4.975	Max.	-0.3613	0.1489	0.0554
		Min.	-0.8192	0.0846	-0.0431
		Dif.	0.4578	0.0643	0.0985
17.948	5.225	Max.	-0.3302	0.2379	0.0592
		Min.	-0.7717	0.1156	-0.0118
		Dif.	0.4415	0.1223	0.0710
17.948	5.475	Max.	-0.3110	0.3237	0.0600
		Min.	-0.7029	0.1275	0.0022
		Dif.	0.3919	0.1962	0.0578
17.948	5.725	Max.	-0.2761	0.3971	0.0668
		Min.	-0.6119	0.1271	0.0090
		Dif.	0.3358	0.2700	0.0578
17.948	5.975	Max.	-0.2408	0.4586	0.0772
		Min.	-0.5035	0.1270	0.0243
		Dif.	0.2627	0.3315	0.0529
17.948	6.225	Max.	-0.2151	0.5193	0.0878
		Min.	-0.3807	0.1205	0.0264
		Dif.	0.1657	0.3987	0.0614



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.948	6.475	Max.	-0.1803	0.5525	0.0857
		Min.	-0.2545	0.1030	0.0177
		Dif.	0.0742	0.4494	0.0680
17.948	6.725	Max.	-0.0833	0.5593	0.0821
		Min.	-0.1863	0.0995	0.0181
		Dif.	0.1030	0.4598	0.0640
17.948	6.750	Max.	-0.0724	0.5534	0.0748
		Min.	-0.1784	0.0939	0.0210
		Dif.	0.1060	0.4595	0.0538
18.198	0.001	Max.	-0.0545	0.3474	-0.0795
		Min.	-0.3342	0.1347	-0.1738
		Dif.	0.2797	0.2127	0.0943
18.198	0.225	Max.	-0.0241	0.3465	-0.0795
		Min.	-0.2563	0.1340	-0.1738
		Dif.	0.2321	0.2124	0.0943
18.198	0.475	Max.	0.0095	0.3423	-0.0687
		Min.	-0.1699	0.1316	-0.1565
		Dif.	0.1794	0.2107	0.0878
18.198	0.725	Max.	0.0372	0.3255	-0.0548
		Min.	-0.0926	0.1229	-0.1367
		Dif.	0.1298	0.2026	0.0819
18.198	0.975	Max.	0.0761	0.2372	-0.0321
		Min.	-0.0015	0.0716	-0.1009
		Dif.	0.0776	0.1656	0.0688
18.198	1.225	Max.	0.0934	0.1694	-0.0182
		Min.	0.0554	0.0338	-0.0812
		Dif.	0.0380	0.1356	0.0630
18.198	1.475	Max.	0.1019	0.0740	-0.0148
		Min.	0.0849	-0.0168	-0.0735
		Dif.	0.0170	0.0907	0.0587
18.198	1.690	Max.	0.1071	-0.0968	-0.0121
		Min.	0.0851	-0.1762	-0.0586
		Dif.	0.0220	0.0794	0.0465
18.198	1.990	Max.	0.0742	-0.0968	-0.0122
		Min.	0.0358	-0.1762	-0.0585
		Dif.	0.0384	0.0794	0.0463
18.198	2.225	Max.	0.0198	-0.2272	-0.0192
		Min.	-0.0412	-0.3592	-0.0710
		Dif.	0.0610	0.1321	0.0518
18.198	2.475	Max.	-0.0491	-0.2571	-0.0178
		Min.	-0.1377	-0.4404	-0.0818
		Dif.	0.0886	0.1833	0.0640
18.198	2.725	Max.	-0.1250	-0.2598	-0.0133
		Min.	-0.2448	-0.4746	-0.0899
		Dif.	0.1198	0.2148	0.0767
18.198	2.975	Max.	-0.1906	-0.2413	-0.0086
		Min.	-0.3633	-0.4836	-0.1031
		Dif.	0.1727	0.2423	0.0944
18.198	3.225	Max.	-0.2530	-0.2019	0.0111
		Min.	-0.4853	-0.4635	-0.0991
		Dif.	0.2323	0.2616	0.1101
18.198	3.475	Max.	-0.2992	-0.1567	0.0153
		Min.	-0.5961	-0.4028	-0.1118
		Dif.	0.2969	0.2461	0.1271
18.198	3.725	Max.	-0.3340	-0.1148	0.0187
		Min.	-0.6904	-0.3326	-0.1171
		Dif.	0.3564	0.2178	0.1358



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.198	3.975	Max.	-0.3591	-0.0700	0.0363
		Min.	-0.7641	-0.2590	-0.0970
		Dif.	0.4050	0.1889	0.1333
18.198	4.225	Max.	-0.3726	-0.0225	0.0400
		Min.	-0.8182	-0.1568	-0.1026
		Dif.	0.4456	0.1343	0.1426
18.198	4.475	Max.	-0.3754	0.0134	0.0400
		Min.	-0.8468	-0.0562	-0.0976
		Dif.	0.4715	0.0697	0.1375
18.198	4.725	Max.	-0.3650	0.0725	0.0501
		Min.	-0.8490	0.0076	-0.0721
		Dif.	0.4840	0.0649	0.1221
18.198	4.975	Max.	-0.3523	0.1407	0.0500
		Min.	-0.8288	0.0759	-0.0671
		Dif.	0.4765	0.0648	0.1172
18.198	5.225	Max.	-0.3333	0.2369	0.0460
		Min.	-0.7833	0.0939	-0.0537
		Dif.	0.4500	0.1429	0.0997
18.198	5.475	Max.	-0.3029	0.3126	0.0534
		Min.	-0.7131	0.1058	-0.0310
		Dif.	0.4103	0.2068	0.0844
18.198	5.725	Max.	-0.2788	0.3960	0.0528
		Min.	-0.6243	0.1147	-0.0211
		Dif.	0.3455	0.2812	0.0739
18.198	5.975	Max.	-0.2531	0.4648	0.0495
		Min.	-0.5166	0.1149	-0.0069
		Dif.	0.2635	0.3499	0.0564
18.198	6.225	Max.	-0.2191	0.5182	0.0498
		Min.	-0.3934	0.1043	-0.0008
		Dif.	0.1743	0.4140	0.0506
18.198	6.475	Max.	-0.1836	0.5526	0.0588
		Min.	-0.2725	0.0994	0.0014
		Dif.	0.0889	0.4532	0.0574
18.198	6.725	Max.	-0.0909	0.5639	0.0592
		Min.	-0.2012	0.0920	0.0034
		Dif.	0.1103	0.4719	0.0558
18.198	6.750	Max.	-0.0807	0.5633	0.0517
		Min.	-0.1943	0.0873	0.0042
		Dif.	0.1135	0.4761	0.0474
18.448	0.001	Max.	-0.0282	0.3253	-0.0506
		Min.	-0.2945	0.1183	-0.1339
		Dif.	0.2664	0.2069	0.0834
18.448	0.225	Max.	-0.0015	0.3244	-0.0506
		Min.	-0.2216	0.1177	-0.1339
		Dif.	0.2202	0.2067	0.0834
18.448	0.475	Max.	0.0281	0.3163	-0.0348
		Min.	-0.1408	0.1132	-0.1100
		Dif.	0.1689	0.2031	0.0751
18.448	0.725	Max.	0.0559	0.2996	-0.0209
		Min.	-0.0635	0.1044	-0.0902
		Dif.	0.1194	0.1953	0.0693
18.448	0.975	Max.	0.0815	0.2625	-0.0070
		Min.	0.0092	0.0838	-0.0706
		Dif.	0.0723	0.1787	0.0636
18.448	1.225	Max.	0.0989	0.1933	0.0071
		Min.	0.0661	0.0474	-0.0510
		Dif.	0.0327	0.1459	0.0580



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.448	1.475	Max.	0.1072	0.0669	0.0179
		Min.	0.0944	-0.0207	-0.0348
		Dif.	0.0127	0.0876	0.0527
18.448	1.690	Max.	0.1123	-0.0997	0.0264
		Min.	0.0911	-0.1727	-0.0163
		Dif.	0.0211	0.0730	0.0426
18.448	1.990	Max.	0.0766	-0.0997	0.0264
		Min.	0.0448	-0.1727	-0.0163
		Dif.	0.0318	0.0730	0.0426
18.448	2.225	Max.	0.0223	-0.2174	0.0171
		Min.	-0.0298	-0.3593	-0.0323
		Dif.	0.0521	0.1419	0.0494
18.448	2.475	Max.	-0.0460	-0.2470	0.0155
		Min.	-0.1244	-0.4425	-0.0440
		Dif.	0.0784	0.1956	0.0595
18.448	2.725	Max.	-0.1172	-0.2482	0.0160
		Min.	-0.2355	-0.4890	-0.0588
		Dif.	0.1182	0.2408	0.0748
18.448	2.975	Max.	-0.1787	-0.2295	0.0196
		Min.	-0.3582	-0.4981	-0.0709
		Dif.	0.1795	0.2686	0.0905
18.448	3.225	Max.	-0.2355	-0.2033	0.0238
		Min.	-0.4824	-0.4736	-0.0836
		Dif.	0.2469	0.2703	0.1074
18.448	3.475	Max.	-0.2816	-0.1578	0.0283
		Min.	-0.5932	-0.4131	-0.0965
		Dif.	0.3116	0.2553	0.1248
18.448	3.725	Max.	-0.3164	-0.1159	0.0318
		Min.	-0.6876	-0.3430	-0.1019
		Dif.	0.3712	0.2271	0.1337
18.448	3.975	Max.	-0.3412	-0.0766	0.0354
		Min.	-0.7653	-0.2672	-0.1074
		Dif.	0.4241	0.1906	0.1428
18.448	4.225	Max.	-0.3548	-0.0290	0.0391
		Min.	-0.8193	-0.1651	-0.1129
		Dif.	0.4646	0.1360	0.1520
18.448	4.475	Max.	-0.3575	0.0069	0.0391
		Min.	-0.8480	-0.0645	-0.1079
		Dif.	0.4905	0.0714	0.1470
18.448	4.725	Max.	-0.3519	0.0569	0.0390
		Min.	-0.8530	0.0063	-0.1030
		Dif.	0.5010	0.0505	0.1420
18.448	4.975	Max.	-0.3337	0.1359	0.0410
		Min.	-0.8384	0.0640	-0.1000
		Dif.	0.5047	0.0719	0.1410
18.448	5.225	Max.	-0.3195	0.2320	0.0358
		Min.	-0.7882	0.0821	-0.0855
		Dif.	0.4687	0.1499	0.1213
18.448	5.475	Max.	-0.2987	0.3114	0.0330
		Min.	-0.7179	0.0934	-0.0734
		Dif.	0.4192	0.2180	0.1064
18.448	5.725	Max.	-0.2741	0.3951	0.0322
		Min.	-0.6295	0.1022	-0.0633
		Dif.	0.3553	0.2929	0.0955
18.448	5.975	Max.	-0.2484	0.4640	0.0287
		Min.	-0.5218	0.1023	-0.0489
		Dif.	0.2735	0.3617	0.0775



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.448	6.225	Max.	-0.2215	0.5103	0.0254
		Min.	-0.3995	0.0993	-0.0348
		Dif.	0.1779	0.4110	0.0602
18.448	6.475	Max.	-0.1820	0.5441	0.0254
		Min.	-0.2827	0.0950	-0.0240
		Dif.	0.1007	0.4490	0.0494
18.448	6.725	Max.	-0.0940	0.5657	0.0228
		Min.	-0.2082	0.0820	-0.0127
		Dif.	0.1142	0.4837	0.0355
18.448	6.750	Max.	-0.0838	0.5647	0.0119
		Min.	-0.2010	0.0727	-0.0134
		Dif.	0.1171	0.4920	0.0253
18.698	0.001	Max.	-0.0081	0.3006	-0.0161
		Min.	-0.2663	0.1002	-0.0910
		Dif.	0.2582	0.2004	0.0749
18.698	0.225	Max.	0.0145	0.2997	-0.0161
		Min.	-0.1989	0.0995	-0.0910
		Dif.	0.2135	0.2002	0.0749
18.698	0.475	Max.	0.0395	0.2962	-0.0040
		Min.	-0.1245	0.0974	-0.0700
		Dif.	0.1639	0.1988	0.0659
18.698	0.725	Max.	0.0689	0.2796	0.0099
		Min.	-0.0489	0.0884	-0.0503
		Dif.	0.1178	0.1912	0.0602
18.698	0.975	Max.	0.0835	0.2083	0.0335
		Min.	0.0092	0.0523	-0.0166
		Dif.	0.0744	0.1560	0.0501
18.698	1.225	Max.	0.1023	0.1402	0.0477
		Min.	0.0647	0.0147	0.0029
		Dif.	0.0376	0.1254	0.0449
18.698	1.475	Max.	0.1070	0.0565	0.0623
		Min.	0.0873	-0.0290	0.0140
		Dif.	0.0197	0.0855	0.0483
18.698	1.690	Max.	0.1088	-0.0987	0.0763
		Min.	0.0857	-0.1714	0.0293
		Dif.	0.0231	0.0727	0.0470
18.698	1.990	Max.	0.0718	-0.0987	0.0763
		Min.	0.0415	-0.1714	0.0293
		Dif.	0.0303	0.0727	0.0470
18.698	2.225	Max.	0.0181	-0.2079	0.0557
		Min.	-0.0316	-0.3575	0.0160
		Dif.	0.0498	0.1496	0.0397
18.698	2.475	Max.	-0.0498	-0.2348	0.0515
		Min.	-0.1229	-0.4371	0.0028
		Dif.	0.0731	0.2023	0.0487
18.698	2.725	Max.	-0.1133	-0.2376	0.0468
		Min.	-0.2359	-0.4713	-0.0130
		Dif.	0.1225	0.2337	0.0598
18.698	2.975	Max.	-0.1743	-0.2194	0.0488
		Min.	-0.3591	-0.4800	-0.0234
		Dif.	0.1848	0.2606	0.0722
18.698	3.225	Max.	-0.2227	-0.1894	0.0407
		Min.	-0.4824	-0.4660	-0.0642
		Dif.	0.2597	0.2766	0.1049
18.698	3.475	Max.	-0.2688	-0.1439	0.0453
		Min.	-0.5933	-0.4056	-0.0773
		Dif.	0.3245	0.2618	0.1226



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.698	3.725	Max.	-0.3036	-0.1019	0.0488
		Min.	-0.6876	-0.3356	-0.0827
		Dif.	0.3841	0.2337	0.1316
18.698	3.975	Max.	-0.3231	-0.0693	0.0391
		Min.	-0.7642	-0.2620	-0.1152
		Dif.	0.4411	0.1927	0.1543
18.698	4.225	Max.	-0.3366	-0.0217	0.0427
		Min.	-0.8183	-0.1599	-0.1208
		Dif.	0.4816	0.1382	0.1635
18.698	4.475	Max.	-0.3396	0.0142	0.0426
		Min.	-0.8468	-0.0593	-0.1157
		Dif.	0.5072	0.0735	0.1584
18.698	4.725	Max.	-0.3347	0.0569	0.0322
		Min.	-0.8509	0.0106	-0.1311
		Dif.	0.5162	0.0463	0.1633
18.698	4.975	Max.	-0.3149	0.1412	0.0350
		Min.	-0.8378	0.0630	-0.1290
		Dif.	0.5228	0.0781	0.1641
18.698	5.225	Max.	-0.3014	0.2366	0.0290
		Min.	-0.7868	0.0817	-0.1137
		Dif.	0.4854	0.1550	0.1427
18.698	5.475	Max.	-0.2854	0.3141	0.0152
		Min.	-0.7159	0.0869	-0.1126
		Dif.	0.4305	0.2272	0.1277
18.698	5.725	Max.	-0.2612	0.3978	0.0135
		Min.	-0.6271	0.0955	-0.1017
		Dif.	0.3659	0.3022	0.1152
18.698	5.975	Max.	-0.2356	0.4667	0.0098
		Min.	-0.5193	0.0956	-0.0870
		Dif.	0.2837	0.3711	0.0968
18.698	6.225	Max.	-0.2155	0.5163	0.0025
		Min.	-0.3990	0.0847	-0.0586
		Dif.	0.1835	0.4317	0.0611
18.698	6.475	Max.	-0.1748	0.5514	0.0009
		Min.	-0.2834	0.0791	-0.0461
		Dif.	0.1085	0.4723	0.0471
18.698	6.725	Max.	-0.0919	0.5633	0.0015
		Min.	-0.2079	0.0720	-0.0279
		Dif.	0.1160	0.4913	0.0294
18.698	6.750	Max.	-0.0805	0.5646	0.0119
		Min.	-0.2039	0.0728	-0.0134
		Dif.	0.1235	0.4918	0.0253
18.948	0.001	Max.	0.0045	0.2760	0.0314
		Min.	-0.2513	0.0820	-0.0417
		Dif.	0.2558	0.1940	0.0731
18.948	0.225	Max.	0.0230	0.2751	0.0314
		Min.	-0.1895	0.0813	-0.0417
		Dif.	0.2125	0.1938	0.0731
18.948	0.475	Max.	0.0446	0.2721	0.0434
		Min.	-0.1221	0.0805	-0.0207
		Dif.	0.1667	0.1915	0.0641
18.948	0.725	Max.	0.0604	0.2479	0.0882
		Min.	-0.0631	0.0656	0.0406
		Dif.	0.1236	0.1823	0.0476
18.948	0.975	Max.	0.0880	0.1713	0.1233
		Min.	0.0082	0.0247	0.0665
		Dif.	0.0798	0.1467	0.0568



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.948	1.225	Max.	0.0940	0.1241	0.1116
		Min.	0.0466	0.0009	0.0587
		Dif.	0.0475	0.1232	0.0529
18.948	1.475	Max.	0.0974	0.0510	0.1177
		Min.	0.0656	-0.0367	0.0677
		Dif.	0.0318	0.0877	0.0499
18.948	1.690	Max.	0.0954	-0.0960	0.1367
		Min.	0.0662	-0.1715	0.0847
		Dif.	0.0292	0.0755	0.0520
18.948	1.990	Max.	0.0595	-0.0960	0.1367
		Min.	0.0217	-0.1715	0.0847
		Dif.	0.0377	0.0755	0.0520
18.948	2.225	Max.	0.0051	-0.1995	0.1097
		Min.	-0.0481	-0.3520	0.0678
		Dif.	0.0532	0.1525	0.0419
18.948	2.475	Max.	-0.0598	-0.2227	0.0964
		Min.	-0.1381	-0.4291	0.0594
		Dif.	0.0783	0.2063	0.0370
18.948	2.725	Max.	-0.1201	-0.2225	0.0884
		Min.	-0.2488	-0.4608	0.0446
		Dif.	0.1287	0.2383	0.0438
18.948	2.975	Max.	-0.1681	-0.1959	0.0948
		Min.	-0.3639	-0.4644	0.0451
		Dif.	0.1958	0.2685	0.0497
18.948	3.225	Max.	-0.2262	-0.1617	0.0962
		Min.	-0.4917	-0.4464	0.0168
		Dif.	0.2655	0.2847	0.0793
18.948	3.475	Max.	-0.2611	-0.1298	0.0663
		Min.	-0.5971	-0.3982	-0.0458
		Dif.	0.3360	0.2683	0.1122
18.948	3.725	Max.	-0.2847	-0.0860	0.0703
		Min.	-0.6857	-0.3255	-0.0481
		Dif.	0.4009	0.2395	0.1184
18.948	3.975	Max.	-0.3121	-0.0460	0.0741
		Min.	-0.7664	-0.2450	-0.0592
		Dif.	0.4543	0.1990	0.1333
18.948	4.225	Max.	-0.3190	-0.0145	0.0514
		Min.	-0.8161	-0.1547	-0.1085
		Dif.	0.4971	0.1402	0.1599
18.948	4.475	Max.	-0.3164	0.0176	0.0497
		Min.	-0.8406	-0.0544	-0.1057
		Dif.	0.5242	0.0720	0.1555
18.948	4.725	Max.	-0.3142	0.0713	0.0500
		Min.	-0.8484	0.0181	-0.1023
		Dif.	0.5342	0.0532	0.1522
18.948	4.975	Max.	-0.2938	0.1464	0.0341
		Min.	-0.8318	0.0621	-0.1329
		Dif.	0.5380	0.0844	0.1670
18.948	5.225	Max.	-0.2801	0.2417	0.0236
		Min.	-0.7768	0.0784	-0.1236
		Dif.	0.4967	0.1633	0.1473
18.948	5.475	Max.	-0.2621	0.3265	0.0183
		Min.	-0.7096	0.0876	-0.1080
		Dif.	0.4475	0.2389	0.1263
18.948	5.725	Max.	-0.2427	0.4004	0.0026
		Min.	-0.6175	0.0890	-0.1170
		Dif.	0.3748	0.3114	0.1196



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.948	5.975	Max.	-0.2228	0.4626	-0.0078
		Min.	-0.5076	0.0800	-0.1063
		Dif.	0.2849	0.3826	0.0985
18.948	6.225	Max.	-0.1960	0.5199	-0.0136
		Min.	-0.3898	0.0734	-0.0782
		Dif.	0.1937	0.4465	0.0647
18.948	6.475	Max.	-0.1643	0.5476	-0.0166
		Min.	-0.2771	0.0664	-0.0630
		Dif.	0.1128	0.4813	0.0463
18.948	6.725	Max.	-0.0856	0.5566	-0.0193
		Min.	-0.2013	0.0602	-0.0383
		Dif.	0.1157	0.4964	0.0190
18.948	6.750	Max.	-0.0752	0.5515	-0.0134
		Min.	-0.1934	0.0494	-0.0259
		Dif.	0.1182	0.5021	0.0125
19.198	0.001	Max.	0.0072	0.2493	0.0934
		Min.	-0.2534	0.0622	0.0274
		Dif.	0.2606	0.1871	0.0660
19.198	0.225	Max.	0.0213	0.2484	0.0934
		Min.	-0.1976	0.0615	0.0274
		Dif.	0.2188	0.1869	0.0660
19.198	0.475	Max.	0.0380	0.2459	0.1079
		Min.	-0.1364	0.0613	0.0529
		Dif.	0.1744	0.1846	0.0550
19.198	0.725	Max.	0.0547	0.2218	0.1703
		Min.	-0.0783	0.0463	0.0974
		Dif.	0.1329	0.1755	0.0729
19.198	0.975	Max.	0.0666	0.1841	0.1950
		Min.	-0.0285	0.0252	0.1159
		Dif.	0.0951	0.1589	0.0792
19.198	1.225	Max.	0.0724	0.1368	0.1824
		Min.	0.0101	0.0014	0.1091
		Dif.	0.0624	0.1354	0.0733
19.198	1.475	Max.	0.0732	0.0492	0.1966
		Min.	0.0294	-0.0449	0.1244
		Dif.	0.0438	0.0941	0.0722
19.198	1.690	Max.	0.0691	-0.0917	0.2173
		Min.	0.0294	-0.1727	0.1475
		Dif.	0.0397	0.0810	0.0697
19.198	1.990	Max.	0.0340	-0.0917	0.2173
		Min.	-0.0148	-0.1727	0.1475
		Dif.	0.0489	0.0810	0.0697
19.198	2.225	Max.	-0.0196	-0.1917	0.1790
		Min.	-0.0817	-0.3413	0.1287
		Dif.	0.0621	0.1497	0.0503
19.198	2.475	Max.	-0.0818	-0.2090	0.1594
		Min.	-0.1689	-0.4171	0.1172
		Dif.	0.0871	0.2081	0.0421
19.198	2.725	Max.	-0.1384	-0.1969	0.1369
		Min.	-0.2765	-0.4593	0.0963
		Dif.	0.1381	0.2624	0.0407
19.198	2.975	Max.	-0.1865	-0.1736	0.1408
		Min.	-0.3915	-0.4596	0.0992
		Dif.	0.2050	0.2860	0.0416
19.198	3.225	Max.	-0.2284	-0.1478	0.1270
		Min.	-0.5048	-0.4389	0.0692
		Dif.	0.2764	0.2911	0.0578



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.198	3.475	Max.	-0.2632	-0.1158	0.0972
		Min.	-0.6102	-0.3907	0.0064
		Dif.	0.3470	0.2749	0.0908
19.198	3.725	Max.	-0.2869	-0.0720	0.1012
		Min.	-0.6988	-0.3181	0.0041
		Dif.	0.4119	0.2461	0.0971
19.198	3.975	Max.	-0.3014	-0.0387	0.0902
		Min.	-0.7690	-0.2398	-0.0234
		Dif.	0.4676	0.2011	0.1136
19.198	4.225	Max.	-0.3083	-0.0072	0.0675
		Min.	-0.8188	-0.1495	-0.0728
		Dif.	0.5105	0.1423	0.1403
19.198	4.475	Max.	-0.3057	0.0249	0.0658
		Min.	-0.8432	-0.0493	-0.0700
		Dif.	0.5376	0.0742	0.1359
19.198	4.725	Max.	-0.2971	0.0717	0.0556
		Min.	-0.8434	0.0220	-0.0838
		Dif.	0.5463	0.0497	0.1394
19.198	4.975	Max.	-0.2764	0.1517	0.0390
		Min.	-0.8272	0.0611	-0.1138
		Dif.	0.5508	0.0906	0.1528
19.198	5.225	Max.	-0.2625	0.2464	0.0289
		Min.	-0.7723	0.0780	-0.1049
		Dif.	0.5098	0.1684	0.1338
19.198	5.475	Max.	-0.2438	0.3292	0.0156
		Min.	-0.6986	0.0811	-0.1080
		Dif.	0.4549	0.2480	0.1236
19.198	5.725	Max.	-0.2243	0.4030	-0.0001
		Min.	-0.6065	0.0825	-0.1170
		Dif.	0.3822	0.3205	0.1169
19.198	5.975	Max.	-0.2044	0.4652	-0.0106
		Min.	-0.4967	0.0736	-0.1062
		Dif.	0.2922	0.3916	0.0956
19.198	6.225	Max.	-0.1831	0.5056	-0.0203
		Min.	-0.3789	0.0620	-0.0931
		Dif.	0.1959	0.4436	0.0728
19.198	6.475	Max.	-0.1527	0.5333	-0.0256
		Min.	-0.2648	0.0549	-0.0755
		Dif.	0.1121	0.4783	0.0499
19.198	6.725	Max.	-0.0780	0.5465	-0.0294
		Min.	-0.1923	0.0446	-0.0462
		Dif.	0.1142	0.5018	0.0169
19.198	6.750	Max.	-0.0695	0.5515	-0.0134
		Min.	-0.1893	0.0494	-0.0259
		Dif.	0.1198	0.5021	0.0125
19.448	0.001	Max.	-0.0032	0.2167	0.1904
		Min.	-0.2776	0.0384	0.1012
		Dif.	0.2744	0.1782	0.0891
19.448	0.225	Max.	0.0056	0.2158	0.1904
		Min.	-0.2290	0.0378	0.1012
		Dif.	0.2346	0.1780	0.0892
19.448	0.475	Max.	0.0155	0.2085	0.2192
		Min.	-0.1761	0.0343	0.1223
		Dif.	0.1916	0.1742	0.0969
19.448	0.725	Max.	0.0247	0.1926	0.2511
		Min.	-0.1279	0.0251	0.1453
		Dif.	0.1526	0.1675	0.1058



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.448	0.975	Max.	0.0318	0.1676	0.2755
		Min.	-0.0841	0.0111	0.1640
		Dif.	0.1159	0.1565	0.1115
19.448	1.225	Max.	0.0350	0.1229	0.2921
		Min.	-0.0480	-0.0136	0.1793
		Dif.	0.0830	0.1365	0.1128
19.448	1.475	Max.	0.0297	0.0474	0.3033
		Min.	-0.0270	-0.0549	0.1932
		Dif.	0.0567	0.1023	0.1101
19.448	1.690	Max.	0.0248	-0.0838	0.3230
		Min.	-0.0277	-0.1737	0.2197
		Dif.	0.0525	0.0899	0.1033
19.448	1.990	Max.	-0.0100	-0.0838	0.3230
		Min.	-0.0700	-0.1737	0.2197
		Dif.	0.0600	0.0899	0.1033
19.448	2.225	Max.	-0.0621	-0.1829	0.2694
		Min.	-0.1338	-0.3248	0.2007
		Dif.	0.0717	0.1419	0.0686
19.448	2.475	Max.	-0.1198	-0.1919	0.2446
		Min.	-0.2178	-0.3993	0.1867
		Dif.	0.0980	0.2075	0.0580
19.448	2.725	Max.	-0.1717	-0.1800	0.2210
		Min.	-0.3206	-0.4389	0.1685
		Dif.	0.1489	0.2589	0.0525
19.448	2.975	Max.	-0.2158	-0.1554	0.1983
		Min.	-0.4322	-0.4419	0.1495
		Dif.	0.2163	0.2864	0.0489
19.448	3.225	Max.	-0.2521	-0.1232	0.1736
		Min.	-0.5401	-0.4152	0.1270
		Dif.	0.2880	0.2921	0.0466
19.448	3.475	Max.	-0.2796	-0.0892	0.1494
		Min.	-0.6378	-0.3665	0.0978
		Dif.	0.3582	0.2773	0.0516
19.448	3.725	Max.	-0.2988	-0.0522	0.1338
		Min.	-0.7216	-0.2983	0.0650
		Dif.	0.4228	0.2461	0.0689
19.448	3.975	Max.	-0.3078	-0.0165	0.1170
		Min.	-0.7863	-0.2168	0.0326
		Dif.	0.4784	0.2003	0.0844
19.448	4.225	Max.	-0.3079	0.0126	0.0998
		Min.	-0.8298	-0.1297	0.0014
		Dif.	0.5219	0.1423	0.0984
19.448	4.475	Max.	-0.3022	0.0399	0.0869
		Min.	-0.8510	-0.0387	-0.0205
		Dif.	0.5488	0.0786	0.1073
19.448	4.725	Max.	-0.2905	0.0880	0.0747
		Min.	-0.8478	0.0340	-0.0380
		Dif.	0.5573	0.0540	0.1127
19.448	4.975	Max.	-0.2661	0.1673	0.0598
		Min.	-0.8266	0.0727	-0.0551
		Dif.	0.5606	0.0947	0.1149
19.448	5.225	Max.	-0.2507	0.2594	0.0426
		Min.	-0.7685	0.0857	-0.0664
		Dif.	0.5178	0.1737	0.1090
19.448	5.475	Max.	-0.2298	0.3426	0.0268
		Min.	-0.6915	0.0908	-0.0775
		Dif.	0.4617	0.2519	0.1043



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.448	5.725	Max.	-0.2078	0.4140	0.0111
		Min.	-0.5957	0.0879	-0.0885
		Dif.	0.3879	0.3261	0.0997
19.448	5.975	Max.	-0.1876	0.4715	-0.0038
		Min.	-0.4840	0.0747	-0.0920
		Dif.	0.2964	0.3967	0.0882
19.448	6.225	Max.	-0.1675	0.5086	-0.0176
		Min.	-0.3645	0.0573	-0.0870
		Dif.	0.1970	0.4513	0.0694
19.448	6.475	Max.	-0.1411	0.5326	-0.0261
		Min.	-0.2485	0.0415	-0.0702
		Dif.	0.1074	0.4911	0.0441
19.448	6.725	Max.	-0.0683	0.5423	-0.0171
		Min.	-0.1775	0.0343	-0.0473
		Dif.	0.1093	0.5080	0.0302
19.448	6.750	Max.	-0.0573	0.5354	0.0159
		Min.	-0.1698	0.0251	-0.0254
		Dif.	0.1125	0.5103	0.0414
19.698	0.001	Max.	-0.0311	0.1850	0.3206
		Min.	-0.3312	0.0149	0.1790
		Dif.	0.3001	0.1702	0.1416
19.698	0.225	Max.	-0.0277	0.1841	0.3206
		Min.	-0.2897	0.0143	0.1790
		Dif.	0.2620	0.1698	0.1416
19.698	0.475	Max.	-0.0244	0.1784	0.3450
		Min.	-0.2443	0.0114	0.1980
		Dif.	0.2199	0.1670	0.1471
19.698	0.725	Max.	-0.0216	0.1668	0.3690
		Min.	-0.2015	0.0051	0.2172
		Dif.	0.1799	0.1616	0.1518
19.698	0.975	Max.	-0.0196	0.1453	0.3913
		Min.	-0.1634	-0.0072	0.2354
		Dif.	0.1439	0.1525	0.1559
19.698	1.225	Max.	-0.0213	0.1056	0.4123
		Min.	-0.1325	-0.0305	0.2532
		Dif.	0.1112	0.1361	0.1591
19.698	1.475	Max.	-0.0305	0.0422	0.4290
		Min.	-0.1143	-0.0678	0.2705
		Dif.	0.0837	0.1099	0.1586
19.698	1.690	Max.	-0.0434	-0.0711	0.4576
		Min.	-0.1088	-0.1747	0.3042
		Dif.	0.0654	0.1036	0.1534
19.698	1.990	Max.	-0.0767	-0.0713	0.4576
		Min.	-0.1491	-0.1745	0.3042
		Dif.	0.0724	0.1032	0.1534
19.698	2.225	Max.	-0.1261	-0.1711	0.3882
		Min.	-0.2092	-0.3010	0.2773
		Dif.	0.0831	0.1299	0.1109
19.698	2.475	Max.	-0.1773	-0.1764	0.3548
		Min.	-0.2894	-0.3693	0.2606
		Dif.	0.1121	0.1929	0.0942
19.698	2.725	Max.	-0.2214	-0.1577	0.3222
		Min.	-0.3883	-0.4111	0.2420
		Dif.	0.1669	0.2534	0.0802
19.698	2.975	Max.	-0.2607	-0.1319	0.2894
		Min.	-0.4918	-0.4145	0.2211
		Dif.	0.2312	0.2826	0.0683



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.698	3.225	Max.	-0.2909	-0.0987	0.2585
		Min.	-0.5932	-0.3881	0.1989
		Dif.	0.3023	0.2894	0.0596
19.698	3.475	Max.	-0.3126	-0.0632	0.2288
		Min.	-0.6843	-0.3384	0.1758
		Dif.	0.3718	0.2751	0.0529
19.698	3.725	Max.	-0.3254	-0.0268	0.1975
		Min.	-0.7603	-0.2693	0.1508
		Dif.	0.4349	0.2424	0.0467
19.698	3.975	Max.	-0.3270	0.0073	0.1656
		Min.	-0.8187	-0.1875	0.1261
		Dif.	0.4916	0.1948	0.0395
19.698	4.225	Max.	-0.3219	0.0335	0.1383
		Min.	-0.8550	-0.1056	0.0993
		Dif.	0.5331	0.1391	0.0390
19.698	4.475	Max.	-0.3111	0.0600	0.1232
		Min.	-0.8711	-0.0272	0.0752
		Dif.	0.5600	0.0872	0.0481
19.698	4.725	Max.	-0.2974	0.1058	0.1082
		Min.	-0.8624	0.0481	0.0544
		Dif.	0.5650	0.0577	0.0538
19.698	4.975	Max.	-0.2705	0.1885	0.0940
		Min.	-0.8356	0.0877	0.0342
		Dif.	0.5651	0.1008	0.0598
19.698	5.225	Max.	-0.2503	0.2778	0.0790
		Min.	-0.7731	0.0994	0.0091
		Dif.	0.5228	0.1784	0.0699
19.698	5.475	Max.	-0.2259	0.3599	0.0664
		Min.	-0.6917	0.1048	-0.0137
		Dif.	0.4658	0.2551	0.0801
19.698	5.725	Max.	-0.2001	0.4277	0.0552
		Min.	-0.5919	0.1022	-0.0361
		Dif.	0.3918	0.3255	0.0913
19.698	5.975	Max.	-0.1763	0.4845	0.0377
		Min.	-0.4764	0.0859	-0.0573
		Dif.	0.3001	0.3985	0.0950
19.698	6.225	Max.	-0.1567	0.5162	0.0172
		Min.	-0.3517	0.0564	-0.0703
		Dif.	0.1949	0.4599	0.0876
19.698	6.475	Max.	-0.1348	0.5269	0.0083
		Min.	-0.2324	0.0299	-0.0617
		Dif.	0.0976	0.4970	0.0700
19.698	6.725	Max.	-0.0637	0.5264	0.0079
		Min.	-0.1688	0.0171	-0.0427
		Dif.	0.1052	0.5093	0.0506
19.698	6.750	Max.	-0.0562	0.5366	0.0159
		Min.	-0.1685	0.0240	-0.0254
		Dif.	0.1123	0.5126	0.0414
19.948	0.001	Max.	-0.0808	0.1567	0.4868
		Min.	-0.4219	-0.0079	0.2761
		Dif.	0.3411	0.1646	0.2108
19.948	0.225	Max.	-0.0825	0.1558	0.4868
		Min.	-0.3867	-0.0085	0.2761
		Dif.	0.3041	0.1643	0.2108
19.948	0.475	Max.	-0.0845	0.1527	0.5028
		Min.	-0.3478	-0.0098	0.2909
		Dif.	0.2633	0.1625	0.2119



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.948	0.725	Max.	-0.0868	0.1432	0.5187
		Min.	-0.3099	-0.0149	0.3070
		Dif.	0.2231	0.1581	0.2117
19.948	0.975	Max.	-0.0908	0.1218	0.5341
		Min.	-0.2751	-0.0275	0.3233
		Dif.	0.1843	0.1493	0.2108
19.948	1.225	Max.	-0.0989	0.0833	0.5486
		Min.	-0.2474	-0.0509	0.3397
		Dif.	0.1485	0.1342	0.2089
19.948	1.475	Max.	-0.1131	0.0254	0.5634
		Min.	-0.2328	-0.0872	0.3574
		Dif.	0.1198	0.1126	0.2060
19.948	1.690	Max.	-0.1304	-0.0460	0.6342
		Min.	-0.2305	-0.1800	0.3982
		Dif.	0.1001	0.1340	0.2359
19.948	1.990	Max.	-0.1709	-0.0460	0.6342
		Min.	-0.2574	-0.1800	0.3982
		Dif.	0.0864	0.1340	0.2359
19.948	2.225	Max.	-0.2121	-0.1534	0.5282
		Min.	-0.3149	-0.2596	0.3573
		Dif.	0.1029	0.1062	0.1710
19.948	2.475	Max.	-0.2553	-0.1535	0.4881
		Min.	-0.3901	-0.3284	0.3422
		Dif.	0.1348	0.1749	0.1459
19.948	2.725	Max.	-0.2937	-0.1352	0.4501
		Min.	-0.4811	-0.3680	0.3257
		Dif.	0.1875	0.2328	0.1244
19.948	2.975	Max.	-0.3245	-0.1075	0.4118
		Min.	-0.5789	-0.3741	0.3068
		Dif.	0.2544	0.2665	0.1051
19.948	3.225	Max.	-0.3522	-0.0767	0.3748
		Min.	-0.6689	-0.3478	0.2869
		Dif.	0.3166	0.2711	0.0879
19.948	3.475	Max.	-0.3681	-0.0403	0.3394
		Min.	-0.7521	-0.2994	0.2662
		Dif.	0.3840	0.2591	0.0732
19.948	3.725	Max.	-0.3743	-0.0028	0.3056
		Min.	-0.8204	-0.2306	0.2431
		Dif.	0.4462	0.2277	0.0625
19.948	3.975	Max.	-0.3708	0.0315	0.2740
		Min.	-0.8690	-0.1474	0.2165
		Dif.	0.4982	0.1789	0.0576
19.948	4.225	Max.	-0.3596	0.0537	0.2444
		Min.	-0.8960	-0.0759	0.1886
		Dif.	0.5364	0.1296	0.0558
19.948	4.475	Max.	-0.3448	0.0755	0.2313
		Min.	-0.9078	-0.0227	0.1766
		Dif.	0.5631	0.0982	0.0546
19.948	4.725	Max.	-0.3249	0.1266	0.2037
		Min.	-0.8951	0.0661	0.1476
		Dif.	0.5702	0.0605	0.0562
19.948	4.975	Max.	-0.2946	0.2244	0.1846
		Min.	-0.8632	0.1054	0.1256
		Dif.	0.5686	0.1191	0.0590
19.948	5.225	Max.	-0.2696	0.2941	0.1700
		Min.	-0.7937	0.1153	0.1040
		Dif.	0.5241	0.1788	0.0660



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.948	5.475	Max.	-0.2412	0.3824	0.1527
		Min.	-0.7067	0.1212	0.0706
		Dif.	0.4654	0.2612	0.0820
19.948	5.725	Max.	-0.2109	0.4363	0.1494
		Min.	-0.6031	0.1218	0.0490
		Dif.	0.3922	0.3145	0.1003
19.948	5.975	Max.	-0.1798	0.5021	0.1332
		Min.	-0.4820	0.1080	0.0030
		Dif.	0.3021	0.3941	0.1301
19.948	6.225	Max.	-0.1534	0.5310	0.1158
		Min.	-0.3493	0.0545	-0.0559
		Dif.	0.1959	0.4765	0.1717
19.948	6.475	Max.	-0.1397	0.5307	0.1152
		Min.	-0.2216	0.0231	-0.0572
		Dif.	0.0819	0.5076	0.1723
19.948	6.725	Max.	-0.0627	0.5272	0.1060
		Min.	-0.1638	0.0131	-0.0375
		Dif.	0.1010	0.5141	0.1435
19.948	6.750	Max.	-0.0538	0.5259	0.1167
		Min.	-0.1612	0.0127	0.0189
		Dif.	0.1074	0.5132	0.0977
19.950	0.225	Max.	-0.0787	0.1402	0.5896
		Min.	-0.3802	-0.0217	0.3337
		Dif.	0.3016	0.1618	0.2558
19.950	0.475	Max.	-0.0814	0.1365	0.5969
		Min.	-0.3426	-0.0237	0.3452
		Dif.	0.2612	0.1602	0.2517
19.950	0.725	Max.	-0.0839	0.1245	0.6063
		Min.	-0.3053	-0.0308	0.3594
		Dif.	0.2213	0.1553	0.2469
19.950	0.975	Max.	-0.0880	0.1005	0.6164
		Min.	-0.2710	-0.0455	0.3746
		Dif.	0.1829	0.1460	0.2418
19.950	1.225	Max.	-0.0963	0.0605	0.6243
		Min.	-0.2437	-0.0706	0.3892
		Dif.	0.1474	0.1312	0.2350
19.950	1.475	Max.	-0.1108	0.0010	0.6262
		Min.	-0.2299	-0.1101	0.3991
		Dif.	0.1191	0.1110	0.2271
19.950	2.225	Max.	-0.2102	-0.1234	0.5985
		Min.	-0.3111	-0.2184	0.3960
		Dif.	0.1009	0.0951	0.2024
19.950	2.475	Max.	-0.2532	-0.1360	0.5640
		Min.	-0.3859	-0.2765	0.3888
		Dif.	0.1327	0.1405	0.1752
19.950	2.725	Max.	-0.2916	-0.1176	0.5255
		Min.	-0.4766	-0.3184	0.3747
		Dif.	0.1850	0.2009	0.1508
19.950	2.975	Max.	-0.3229	-0.0922	0.4847
		Min.	-0.5737	-0.3267	0.3573
		Dif.	0.2508	0.2345	0.1274
19.950	3.225	Max.	-0.3493	-0.0624	0.4456
		Min.	-0.6649	-0.3051	0.3383
		Dif.	0.3156	0.2427	0.1073
19.950	3.475	Max.	-0.3649	-0.0278	0.4144
		Min.	-0.7484	-0.2602	0.3121
		Dif.	0.3835	0.2324	0.1022



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.950	3.725	Max.	-0.3707	0.0082	0.3882
		Min.	-0.8170	-0.1946	0.2817
		Dif.	0.4463	0.2028	0.1065
19.950	3.975	Max.	-0.3670	0.0429	0.3607
		Min.	-0.8662	-0.1112	0.2496
		Dif.	0.4992	0.1541	0.1111
19.950	4.225	Max.	-0.3548	0.0641	0.3360
		Min.	-0.8912	-0.0512	0.2221
		Dif.	0.5364	0.1153	0.1139
19.950	4.475	Max.	-0.3396	0.0640	0.3360
		Min.	-0.9035	-0.0511	0.2221
		Dif.	0.5639	0.1151	0.1139
19.950	4.725	Max.	-0.3196	0.1386	0.2973
		Min.	-0.8896	0.0808	0.1821
		Dif.	0.5700	0.0578	0.1152
19.950	4.975	Max.	-0.2934	0.2800	0.2649
		Min.	-0.8594	0.1194	0.1473
		Dif.	0.5661	0.1606	0.1176
19.950	5.225	Max.	-0.2635	0.2800	0.2649
		Min.	-0.7894	0.1194	0.1473
		Dif.	0.5259	0.1606	0.1176
19.950	5.475	Max.	-0.2374	0.4093	0.2269
		Min.	-0.7028	0.1262	0.1011
		Dif.	0.4654	0.2831	0.1258
19.950	5.725	Max.	-0.2058	0.4093	0.2269
		Min.	-0.6005	0.1262	0.1011
		Dif.	0.3946	0.2831	0.1258
19.950	5.975	Max.	-0.1773	0.4968	0.2115
		Min.	-0.4768	0.0997	0.0389
		Dif.	0.2995	0.3972	0.1726
19.950	6.225	Max.	-0.1465	0.5344	0.2269
		Min.	-0.3440	0.0163	-0.0747
		Dif.	0.1975	0.5181	0.3016
19.950	6.475	Max.	-0.1333	0.5327	0.2278
		Min.	-0.2197	0.0179	-0.0755
		Dif.	0.0864	0.5148	0.3033
19.950	6.725	Max.	-0.0558	0.5327	0.2269
		Min.	-0.1605	0.0179	-0.0747
		Dif.	0.1047	0.5148	0.3016
20.250	0.225	Max.	-0.1798	0.1402	0.5896
		Min.	-0.5560	-0.0217	0.3337
		Dif.	0.3762	0.1618	0.2558
20.250	0.475	Max.	-0.1861	0.1365	0.5969
		Min.	-0.5206	-0.0237	0.3452
		Dif.	0.3346	0.1602	0.2517
20.250	0.725	Max.	-0.1928	0.1245	0.6063
		Min.	-0.4860	-0.0308	0.3594
		Dif.	0.2932	0.1553	0.2469
20.250	0.975	Max.	-0.2015	0.1005	0.6164
		Min.	-0.4548	-0.0455	0.3746
		Dif.	0.2533	0.1460	0.2418
20.250	1.225	Max.	-0.2141	0.0605	0.6243
		Min.	-0.4299	-0.0706	0.3892
		Dif.	0.2158	0.1312	0.2350
20.250	1.475	Max.	-0.2331	0.0010	0.6262
		Min.	-0.4152	-0.1101	0.3991
		Dif.	0.1821	0.1110	0.2271



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.250	2.225	Max.	-0.3348	-0.1234	0.5985
		Min.	-0.4847	-0.2184	0.3960
		Dif.	0.1499	0.0951	0.2024
20.250	2.475	Max.	-0.3718	-0.1360	0.5640
		Min.	-0.5531	-0.2765	0.3888
		Dif.	0.1813	0.1405	0.1752
20.250	2.725	Max.	-0.4052	-0.1179	0.5255
		Min.	-0.6330	-0.3180	0.3747
		Dif.	0.2278	0.2001	0.1508
20.250	2.975	Max.	-0.4311	-0.0922	0.4847
		Min.	-0.7181	-0.3267	0.3573
		Dif.	0.2870	0.2345	0.1274
20.250	3.225	Max.	-0.4522	-0.0624	0.4456
		Min.	-0.7971	-0.3051	0.3383
		Dif.	0.3449	0.2427	0.1073
20.250	3.475	Max.	-0.4626	-0.0278	0.4144
		Min.	-0.8687	-0.2603	0.3121
		Dif.	0.4061	0.2325	0.1022
20.250	3.725	Max.	-0.4631	0.0082	0.3882
		Min.	-0.9256	-0.1947	0.2817
		Dif.	0.4625	0.2029	0.1065
20.250	3.975	Max.	-0.4533	0.0430	0.3607
		Min.	-0.9628	-0.1112	0.2496
		Dif.	0.5095	0.1541	0.1111
20.250	4.225	Max.	-0.4357	0.0641	0.3360
		Min.	-0.9775	-0.0512	0.2221
		Dif.	0.5418	0.1153	0.1139
20.250	4.475	Max.	-0.4206	0.0640	0.3360
		Min.	-0.9898	-0.0511	0.2221
		Dif.	0.5693	0.1151	0.1139
20.250	4.725	Max.	-0.3916	0.1386	0.2973
		Min.	-0.9612	0.0808	0.1821
		Dif.	0.5696	0.0578	0.1152
20.250	4.975	Max.	-0.3564	0.2800	0.2649
		Min.	-0.9199	0.1194	0.1473
		Dif.	0.5635	0.1606	0.1176
20.250	5.225	Max.	-0.3265	0.2800	0.2649
		Min.	-0.8499	0.1194	0.1473
		Dif.	0.5234	0.1606	0.1176
20.250	5.475	Max.	-0.2874	0.4093	0.2269
		Min.	-0.7510	0.1262	0.1011
		Dif.	0.4636	0.2831	0.1258
20.250	5.725	Max.	-0.2559	0.4093	0.2269
		Min.	-0.6487	0.1262	0.1011
		Dif.	0.3928	0.2831	0.1258
20.250	5.975	Max.	-0.2142	0.4969	0.2115
		Min.	-0.5148	0.0996	0.0389
		Dif.	0.3007	0.3973	0.1726
20.250	6.225	Max.	-0.1645	0.5327	0.2269
		Min.	-0.3713	0.0179	-0.0747
		Dif.	0.2068	0.5148	0.3016
20.250	6.475	Max.	-0.1459	0.5327	0.2269
		Min.	-0.2524	0.0179	-0.0747
		Dif.	0.1064	0.5148	0.3016
20.250	6.725	Max.	-0.0744	0.5327	0.2269
		Min.	-0.1871	0.0179	-0.0747
		Dif.	0.1127	0.5148	0.3016



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.448	0.001	Max.	-0.2600	0.1502	0.7825
		Min.	-0.7432	-0.0334	0.4322
		Dif.	0.4832	0.1837	0.3503
20.448	0.225	Max.	-0.2675	0.1493	0.7825
		Min.	-0.7094	-0.0341	0.4322
		Dif.	0.4420	0.1833	0.3503
20.448	0.475	Max.	-0.2759	0.1450	0.7775
		Min.	-0.6724	-0.0355	0.4426
		Dif.	0.3964	0.1805	0.3349
20.448	0.725	Max.	-0.2850	0.1316	0.7723
		Min.	-0.6372	-0.0416	0.4536
		Dif.	0.3523	0.1731	0.3187
20.448	0.975	Max.	-0.2966	0.1077	0.7733
		Min.	-0.6067	-0.0557	0.4672
		Dif.	0.3101	0.1634	0.3061
20.448	1.225	Max.	-0.3123	0.0815	0.7772
		Min.	-0.5825	-0.0714	0.4824
		Dif.	0.2702	0.1529	0.2949
20.448	1.475	Max.	-0.3311	0.0585	0.7657
		Min.	-0.5630	-0.0822	0.4869
		Dif.	0.2319	0.1407	0.2788
20.448	1.690	Max.	-0.3382	-0.0460	0.6349
		Min.	-0.5388	-0.1800	0.3974
		Dif.	0.2006	0.1340	0.2375
20.448	1.990	Max.	-0.3802	-0.0460	0.6346
		Min.	-0.5642	-0.1800	0.3978
		Dif.	0.1840	0.1340	0.2368
20.448	2.225	Max.	-0.4296	-0.1486	0.7343
		Min.	-0.6300	-0.2468	0.4796
		Dif.	0.2004	0.0982	0.2547
20.448	2.475	Max.	-0.4674	-0.1364	0.7102
		Min.	-0.6952	-0.2648	0.4788
		Dif.	0.2278	0.1284	0.2315
20.448	2.725	Max.	-0.4990	-0.1087	0.6660
		Min.	-0.7658	-0.2864	0.4708
		Dif.	0.2667	0.1777	0.1953
20.448	2.975	Max.	-0.5236	-0.0798	0.6192
		Min.	-0.8392	-0.2908	0.4561
		Dif.	0.3155	0.2110	0.1631
20.448	3.225	Max.	-0.5407	-0.0483	0.5922
		Min.	-0.9106	-0.2698	0.4290
		Dif.	0.3699	0.2215	0.1632
20.448	3.475	Max.	-0.5489	-0.0125	0.5813
		Min.	-0.9730	-0.2210	0.3905
		Dif.	0.4240	0.2085	0.1909
20.448	3.725	Max.	-0.5479	0.0246	0.5671
		Min.	-1.0211	-0.1600	0.3523
		Dif.	0.4732	0.1847	0.2148
20.448	3.975	Max.	-0.5375	0.0571	0.5580
		Min.	-1.0523	-0.0888	0.3222
		Dif.	0.5148	0.1458	0.2358
20.448	4.225	Max.	-0.5198	0.0873	0.5503
		Min.	-1.0650	-0.0223	0.2968
		Dif.	0.5452	0.1096	0.2535
20.448	4.475	Max.	-0.4979	0.1262	0.5227
		Min.	-1.0614	0.0313	0.2592
		Dif.	0.5635	0.0949	0.2635



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.448	4.725	Max.	-0.4685	0.1812	0.5044
		Min.	-1.0330	0.1075	0.2378
		Dif.	0.5645	0.0737	0.2666
20.448	4.975	Max.	-0.4259	0.2661	0.4841
		Min.	-0.9875	0.1448	0.2119
		Dif.	0.5615	0.1214	0.2722
20.448	5.225	Max.	-0.3918	0.3419	0.4475
		Min.	-0.9080	0.1583	0.1959
		Dif.	0.5163	0.1836	0.2516
20.448	5.475	Max.	-0.3512	0.4225	0.4188
		Min.	-0.8096	0.1687	0.1843
		Dif.	0.4584	0.2538	0.2346
20.448	5.725	Max.	-0.3085	0.4842	0.3822
		Min.	-0.6954	0.1752	0.1647
		Dif.	0.3869	0.3090	0.2175
20.448	5.975	Max.	-0.2642	0.5435	0.3555
		Min.	-0.5634	0.1648	0.1537
		Dif.	0.2992	0.3787	0.2019
20.448	6.225	Max.	-0.2224	0.5687	0.3364
		Min.	-0.4232	0.1227	0.1489
		Dif.	0.2009	0.4459	0.1875
20.448	6.475	Max.	-0.1783	0.5762	0.2708
		Min.	-0.2984	0.0905	0.1312
		Dif.	0.1201	0.4856	0.1396
20.448	6.725	Max.	-0.0945	0.5701	0.1901
		Min.	-0.2180	0.0645	0.1013
		Dif.	0.1234	0.5056	0.0889
20.448	6.750	Max.	-0.0821	0.5268	0.1167
		Min.	-0.2006	0.0117	0.0189
		Dif.	0.1185	0.5151	0.0977
20.698	0.001	Max.	-0.3734	0.1570	0.8467
		Min.	-0.9501	-0.0451	0.4572
		Dif.	0.5768	0.2021	0.3895
20.698	0.225	Max.	-0.3835	0.1561	0.8467
		Min.	-0.9149	-0.0457	0.4572
		Dif.	0.5314	0.2018	0.3895
20.698	0.475	Max.	-0.3950	0.1541	0.8416
		Min.	-0.8760	-0.0466	0.4689
		Dif.	0.4810	0.2007	0.3727
20.698	0.725	Max.	-0.4060	0.1375	0.8240
		Min.	-0.8379	-0.0505	0.4776
		Dif.	0.4319	0.1880	0.3464
20.698	0.975	Max.	-0.4206	0.1048	0.8207
		Min.	-0.8072	-0.0690	0.4897
		Dif.	0.3865	0.1738	0.3311
20.698	1.225	Max.	-0.4411	0.0722	0.8295
		Min.	-0.7857	-0.0903	0.5046
		Dif.	0.3446	0.1625	0.3250
20.698	1.475	Max.	-0.4649	0.0236	0.8351
		Min.	-0.7738	-0.1135	0.5214
		Dif.	0.3089	0.1371	0.3137
20.698	1.690	Max.	-0.4913	-0.0422	0.7480
		Min.	-0.7761	-0.1629	0.4785
		Dif.	0.2849	0.1207	0.2695
20.698	1.990	Max.	-0.5309	-0.0422	0.7482
		Min.	-0.7976	-0.1629	0.4782
		Dif.	0.2667	0.1207	0.2700



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.698	2.225	Max.	-0.5614	-0.1039	0.7928
		Min.	-0.8307	-0.2012	0.5173
		Dif.	0.2694	0.0973	0.2754
20.698	2.475	Max.	-0.5945	-0.1238	0.7525
		Min.	-0.8813	-0.2211	0.5085
		Dif.	0.2869	0.0973	0.2440
20.698	2.725	Max.	-0.6235	-0.0985	0.7023
		Min.	-0.9402	-0.2365	0.5033
		Dif.	0.3167	0.1380	0.1990
20.698	2.975	Max.	-0.6446	-0.0713	0.6563
		Min.	-1.0007	-0.2492	0.4873
		Dif.	0.3560	0.1779	0.1690
20.698	3.225	Max.	-0.6600	-0.0446	0.6477
		Min.	-1.0615	-0.2333	0.4508
		Dif.	0.4015	0.1887	0.1969
20.698	3.475	Max.	-0.6682	-0.0078	0.6604
		Min.	-1.1139	-0.1731	0.4137
		Dif.	0.4458	0.1653	0.2466
20.698	3.725	Max.	-0.6645	0.0318	0.6329
		Min.	-1.1501	-0.1249	0.3737
		Dif.	0.4856	0.1567	0.2592
20.698	3.975	Max.	-0.6533	0.0597	0.6270
		Min.	-1.1733	-0.0629	0.3400
		Dif.	0.5200	0.1227	0.2870
20.698	4.225	Max.	-0.6357	0.1048	0.6421
		Min.	-1.1790	0.0135	0.3076
		Dif.	0.5434	0.0913	0.3345
20.698	4.475	Max.	-0.6080	0.1546	0.5977
		Min.	-1.1628	0.0644	0.2761
		Dif.	0.5548	0.0902	0.3216
20.698	4.725	Max.	-0.5753	0.2006	0.5788
		Min.	-1.1272	0.1249	0.2508
		Dif.	0.5518	0.0757	0.3280
20.698	4.975	Max.	-0.5376	0.2890	0.5842
		Min.	-1.0686	0.1682	0.2296
		Dif.	0.5310	0.1208	0.3546
20.698	5.225	Max.	-0.4879	0.3680	0.5266
		Min.	-0.9891	0.1838	0.2105
		Dif.	0.5012	0.1843	0.3161
20.698	5.475	Max.	-0.4418	0.4396	0.4940
		Min.	-0.8860	0.1909	0.1989
		Dif.	0.4442	0.2486	0.2951
20.698	5.725	Max.	-0.3933	0.5118	0.4867
		Min.	-0.7664	0.2077	0.1894
		Dif.	0.3731	0.3041	0.2973
20.698	5.975	Max.	-0.3418	0.5609	0.4217
		Min.	-0.6298	0.1895	0.1785
		Dif.	0.2880	0.3714	0.2433
20.698	6.225	Max.	-0.2907	0.5852	0.3793
		Min.	-0.4918	0.1593	0.1723
		Dif.	0.2011	0.4258	0.2070
20.698	6.475	Max.	-0.2308	0.6015	0.3377
		Min.	-0.3662	0.1477	0.1667
		Dif.	0.1354	0.4538	0.1711
20.698	6.725	Max.	-0.1355	0.5940	0.2495
		Min.	-0.2792	0.1198	0.1503
		Dif.	0.1436	0.4741	0.0991



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.698	6.750	Max.	-0.1237	0.5845	0.1600
		Min.	-0.2753	0.1117	0.1100
		Dif.	0.1516	0.4729	0.0500
20.948	0.001	Max.	-0.4877	0.1632	0.8470
		Min.	-1.1639	-0.0573	0.4418
		Dif.	0.6762	0.2205	0.4052
20.948	0.225	Max.	-0.5006	0.1622	0.8470
		Min.	-1.1272	-0.0580	0.4418
		Dif.	0.6267	0.2202	0.4052
20.948	0.475	Max.	-0.5152	0.1600	0.8423
		Min.	-1.0869	-0.0591	0.4517
		Dif.	0.5717	0.2191	0.3906
20.948	0.725	Max.	-0.5262	0.1434	0.8247
		Min.	-1.0488	-0.0630	0.4604
		Dif.	0.5226	0.2064	0.3643
20.948	0.975	Max.	-0.5496	0.0911	0.8073
		Min.	-1.0136	-0.0872	0.4745
		Dif.	0.4640	0.1783	0.3328
20.948	1.225	Max.	-0.5687	0.0585	0.8161
		Min.	-0.9935	-0.1084	0.4895
		Dif.	0.4248	0.1670	0.3266
20.948	1.475	Max.	-0.5968	0.0082	0.8012
		Min.	-0.9864	-0.1324	0.4907
		Dif.	0.3897	0.1406	0.3105
20.948	1.690	Max.	-0.6301	-0.0312	0.6936
		Min.	-0.9975	-0.1537	0.4330
		Dif.	0.3673	0.1225	0.2606
20.948	1.990	Max.	-0.6700	-0.0312	0.6941
		Min.	-1.0126	-0.1537	0.4325
		Dif.	0.3426	0.1225	0.2616
20.948	2.225	Max.	-0.6931	-0.0699	0.7574
		Min.	-1.0315	-0.1758	0.4949
		Dif.	0.3383	0.1059	0.2625
20.948	2.475	Max.	-0.7231	-0.1036	0.7360
		Min.	-1.0703	-0.1925	0.5001
		Dif.	0.3471	0.0889	0.2358
20.948	2.725	Max.	-0.7517	-0.1086	0.7035
		Min.	-1.1179	-0.1975	0.5023
		Dif.	0.3661	0.0889	0.2012
20.948	2.975	Max.	-0.7728	-0.0837	0.6586
		Min.	-1.1784	-0.2079	0.4852
		Dif.	0.4056	0.1242	0.1734
20.948	3.225	Max.	-0.7865	-0.0487	0.6643
		Min.	-1.2053	-0.1940	0.4390
		Dif.	0.4188	0.1453	0.2253
20.948	3.475	Max.	-0.7947	-0.0119	0.6769
		Min.	-1.2576	-0.1338	0.4021
		Dif.	0.4629	0.1218	0.2749
20.948	3.725	Max.	-0.7911	0.0278	0.6493
		Min.	-1.2938	-0.0856	0.3621
		Dif.	0.5027	0.1133	0.2872
20.948	3.975	Max.	-0.7787	0.0630	0.6549
		Min.	-1.2876	-0.0299	0.3242
		Dif.	0.5090	0.0929	0.3307
20.948	4.225	Max.	-0.7610	0.1126	0.6699
		Min.	-1.2933	0.0417	0.2920
		Dif.	0.5323	0.0709	0.3779



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.948	4.475	Max.	-0.7334	0.1631	0.6253
		Min.	-1.2770	0.0920	0.2606
		Dif.	0.5437	0.0711	0.3647
20.948	4.725	Max.	-0.6914	0.2199	0.6148
		Min.	-1.2179	0.1408	0.2374
		Dif.	0.5265	0.0790	0.3773
20.948	4.975	Max.	-0.6537	0.3083	0.6200
		Min.	-1.1593	0.1841	0.2164
		Dif.	0.5056	0.1242	0.4037
20.948	5.225	Max.	-0.6051	0.3875	0.5624
		Min.	-1.0786	0.1995	0.1974
		Dif.	0.4735	0.1880	0.3650
20.948	5.475	Max.	-0.5401	0.4533	0.5303
		Min.	-0.9611	0.2206	0.1930
		Dif.	0.4210	0.2327	0.3372
20.948	5.725	Max.	-0.4915	0.5256	0.5228
		Min.	-0.8416	0.2372	0.1838
		Dif.	0.3501	0.2884	0.3390
20.948	5.975	Max.	-0.4389	0.5740	0.4575
		Min.	-0.7062	0.2198	0.1731
		Dif.	0.2673	0.3542	0.2844
20.948	6.225	Max.	-0.3553	0.6124	0.3738
		Min.	-0.5561	0.2088	0.1689
		Dif.	0.2008	0.4036	0.2049
20.948	6.475	Max.	-0.2865	0.6286	0.3341
		Min.	-0.4396	0.1973	0.1614
		Dif.	0.1532	0.4313	0.1728
20.948	6.725	Max.	-0.1780	0.6299	0.2534
		Min.	-0.3448	0.1905	0.1445
		Dif.	0.1668	0.4394	0.1089
20.948	6.750	Max.	-0.1678	0.6442	0.1943
		Min.	-0.3422	0.2212	0.1149
		Dif.	0.1744	0.4229	0.0795
21.198	0.001	Max.	-0.5940	0.1688	0.7950
		Min.	-1.3702	-0.0700	0.3954
		Dif.	0.7762	0.2388	0.3996
21.198	0.225	Max.	-0.6097	0.1679	0.7950
		Min.	-1.3323	-0.0706	0.3954
		Dif.	0.7226	0.2385	0.3996
21.198	0.475	Max.	-0.6274	0.1643	0.7903
		Min.	-1.2906	-0.0724	0.4059
		Dif.	0.6632	0.2367	0.3844
21.198	0.725	Max.	-0.6494	0.1536	0.7792
		Min.	-1.2504	-0.0751	0.4143
		Dif.	0.6010	0.2288	0.3649
21.198	0.975	Max.	-0.6630	0.1036	0.7689
		Min.	-1.2222	-0.1004	0.4319
		Dif.	0.5591	0.2040	0.3371
21.198	1.225	Max.	-0.6869	0.0729	0.7578
		Min.	-1.1931	-0.1117	0.4402
		Dif.	0.5062	0.1846	0.3176
21.198	1.475	Max.	-0.7146	0.0384	0.7365
		Min.	-1.1804	-0.1231	0.4399
		Dif.	0.4658	0.1614	0.2966
21.198	1.690	Max.	-0.7384	-0.0312	0.6936
		Min.	-1.1708	-0.1537	0.4330
		Dif.	0.4324	0.1225	0.2606



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.198	1.990	Max.	-0.7783	-0.0312	0.6937
		Min.	-1.1860	-0.1537	0.4329
		Dif.	0.4077	0.1225	0.2609
21.198	2.225	Max.	-0.8134	-0.0657	0.6911
		Min.	-1.2148	-0.1901	0.4547
		Dif.	0.4013	0.1244	0.2364
21.198	2.475	Max.	-0.8460	-0.0835	0.6740
		Min.	-1.2490	-0.1924	0.4650
		Dif.	0.4030	0.1089	0.2090
21.198	2.725	Max.	-0.8757	-0.0933	0.6543
		Min.	-1.2892	-0.1858	0.4689
		Dif.	0.4135	0.0925	0.1855
21.198	2.975	Max.	-0.8983	-0.0808	0.6447
		Min.	-1.3241	-0.1542	0.4532
		Dif.	0.4258	0.0733	0.1915
21.198	3.225	Max.	-0.9139	-0.0526	0.6466
		Min.	-1.3798	-0.1355	0.4024
		Dif.	0.4660	0.0828	0.2442
21.198	3.475	Max.	-0.9236	-0.0161	0.6545
		Min.	-1.3990	-0.0943	0.3694
		Dif.	0.4754	0.0783	0.2851
21.198	3.725	Max.	-0.9233	0.0273	0.6557
		Min.	-1.4058	-0.0390	0.3364
		Dif.	0.4824	0.0663	0.3193
21.198	3.975	Max.	-0.9111	0.0589	0.6531
		Min.	-1.4272	0.0204	0.2944
		Dif.	0.5160	0.0385	0.3587
21.198	4.225	Max.	-0.8910	0.1207	0.6540
		Min.	-1.4047	0.0696	0.2617
		Dif.	0.5137	0.0510	0.3923
21.198	4.475	Max.	-0.8602	0.1898	0.6417
		Min.	-1.3638	0.1211	0.2412
		Dif.	0.5036	0.0687	0.4005
21.198	4.725	Max.	-0.8257	0.2521	0.6227
		Min.	-1.3249	0.1625	0.2118
		Dif.	0.4992	0.0897	0.4109
21.198	4.975	Max.	-0.7729	0.3276	0.6147
		Min.	-1.2510	0.2000	0.1870
		Dif.	0.4781	0.1276	0.4278
21.198	5.225	Max.	-0.7157	0.4078	0.5827
		Min.	-1.1528	0.2350	0.1829
		Dif.	0.4371	0.1728	0.3999
21.198	5.475	Max.	-0.6677	0.4765	0.5458
		Min.	-1.0472	0.2457	0.1711
		Dif.	0.3795	0.2308	0.3747
21.198	5.725	Max.	-0.5963	0.5396	0.5152
		Min.	-0.9163	0.2666	0.1656
		Dif.	0.3200	0.2729	0.3496
21.198	5.975	Max.	-0.5201	0.5999	0.4628
		Min.	-0.7700	0.2824	0.1651
		Dif.	0.2498	0.3175	0.2977
21.198	6.225	Max.	-0.4486	0.6338	0.3721
		Min.	-0.6456	0.2596	0.1511
		Dif.	0.1970	0.3742	0.2210
21.198	6.475	Max.	-0.3335	0.6562	0.3240
		Min.	-0.5157	0.2589	0.1463
		Dif.	0.1822	0.3973	0.1777



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.198	6.725	Max.	-0.2140	0.6615	0.2515
		Min.	-0.4044	0.2519	0.1295
		Dif.	0.1904	0.4096	0.1220
21.198	6.750	Max.	-0.1996	0.6440	0.1943
		Min.	-0.3877	0.2214	0.1149
		Dif.	0.1880	0.4225	0.0795
21.448	0.001	Max.	-0.6851	0.1754	0.7027
		Min.	-1.5579	-0.0834	0.3246
		Dif.	0.8729	0.2588	0.3780
21.448	0.225	Max.	-0.7038	0.1745	0.7027
		Min.	-1.5185	-0.0840	0.3246
		Dif.	0.8147	0.2585	0.3780
21.448	0.475	Max.	-0.7234	0.1660	0.6940
		Min.	-1.4769	-0.0874	0.3373
		Dif.	0.7535	0.2535	0.3567
21.448	0.725	Max.	-0.7439	0.1553	0.6829
		Min.	-1.4382	-0.0902	0.3457
		Dif.	0.6943	0.2455	0.3372
21.448	0.975	Max.	-0.7651	0.1371	0.6718
		Min.	-1.4021	-0.0964	0.3541
		Dif.	0.6370	0.2335	0.3177
21.448	1.225	Max.	-0.7889	0.1063	0.6606
		Min.	-1.3731	-0.1078	0.3624
		Dif.	0.5841	0.2141	0.2982
21.448	1.475	Max.	-0.8172	0.0463	0.6306
		Min.	-1.3554	-0.1298	0.3619
		Dif.	0.5382	0.1761	0.2687
21.448	1.690	Max.	-0.8471	-0.0145	0.5209
		Min.	-1.3534	-0.1559	0.3128
		Dif.	0.5063	0.1414	0.2080
21.448	1.990	Max.	-0.8907	-0.0145	0.5207
		Min.	-1.3604	-0.1559	0.3130
		Dif.	0.4696	0.1414	0.2076
21.448	2.225	Max.	-0.9215	-0.0471	0.5856
		Min.	-1.3778	-0.1904	0.3865
		Dif.	0.4563	0.1434	0.1992
21.448	2.475	Max.	-0.9567	-0.0651	0.5789
		Min.	-1.4069	-0.1996	0.4030
		Dif.	0.4502	0.1346	0.1760
21.448	2.725	Max.	-0.9890	-0.0703	0.5699
		Min.	-1.4412	-0.1805	0.3994
		Dif.	0.4522	0.1103	0.1705
21.448	2.975	Max.	-1.0135	-0.0605	0.5710
		Min.	-1.4742	-0.1462	0.3732
		Dif.	0.4607	0.0857	0.1978
21.448	3.225	Max.	-1.0320	-0.0426	0.5791
		Min.	-1.5025	-0.1104	0.3400
		Dif.	0.4705	0.0677	0.2391
21.448	3.475	Max.	-1.0417	-0.0145	0.5871
		Min.	-1.5216	-0.0607	0.3069
		Dif.	0.4800	0.0462	0.2802
21.448	3.725	Max.	-1.0415	0.0265	0.5883
		Min.	-1.5284	-0.0030	0.2738
		Dif.	0.4869	0.0295	0.3145
21.448	3.975	Max.	-1.0312	0.0649	0.5894
		Min.	-1.5219	0.0509	0.2410
		Dif.	0.4907	0.0140	0.3484



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.448	4.225	Max.	-1.0112	0.1302	0.5902
		Min.	-1.4994	0.0961	0.2083
		Dif.	0.4882	0.0342	0.3819
21.448	4.475	Max.	-0.9804	0.2046	0.5778
		Min.	-1.4584	0.1424	0.1880
		Dif.	0.4780	0.0622	0.3898
21.448	4.725	Max.	-0.9395	0.2714	0.5653
		Min.	-1.3993	0.1785	0.1677
		Dif.	0.4598	0.0929	0.3976
21.448	4.975	Max.	-0.8886	0.3470	0.5555
		Min.	-1.3235	0.2158	0.1448
		Dif.	0.4349	0.1312	0.4107
21.448	5.225	Max.	-0.8308	0.4273	0.5236
		Min.	-1.2258	0.2507	0.1405
		Dif.	0.3950	0.1766	0.3831
21.448	5.475	Max.	-0.7646	0.4902	0.4926
		Min.	-1.1098	0.2754	0.1353
		Dif.	0.3452	0.2148	0.3573
21.448	5.725	Max.	-0.6931	0.5540	0.4619
		Min.	-0.9791	0.2956	0.1299
		Dif.	0.2860	0.2584	0.3319
21.448	5.975	Max.	-0.6059	0.6138	0.4095
		Min.	-0.8439	0.3119	0.1294
		Dif.	0.2380	0.3020	0.2800
21.448	6.225	Max.	-0.4926	0.6500	0.3586
		Min.	-0.7178	0.3187	0.1274
		Dif.	0.2252	0.3312	0.2312
21.448	6.475	Max.	-0.3725	0.6725	0.3105
		Min.	-0.5929	0.3180	0.1225
		Dif.	0.2205	0.3545	0.1880
21.448	6.725	Max.	-0.2491	0.6814	0.2392
		Min.	-0.4671	0.3140	0.1037
		Dif.	0.2180	0.3674	0.1355
21.448	6.750	Max.	-0.2371	0.6843	0.1832
		Min.	-0.4584	0.3340	0.0788
		Dif.	0.2213	0.3503	0.1044
21.698	0.001	Max.	-0.7540	0.1833	0.5798
		Min.	-1.7204	-0.0968	0.2324
		Dif.	0.9664	0.2801	0.3474
21.698	0.225	Max.	-0.7744	0.1823	0.5798
		Min.	-1.6807	-0.0974	0.2324
		Dif.	0.9063	0.2798	0.3474
21.698	0.475	Max.	-0.7972	0.1783	0.5733
		Min.	-1.6369	-0.0992	0.2429
		Dif.	0.8397	0.2775	0.3304
21.698	0.725	Max.	-0.8177	0.1676	0.5622
		Min.	-1.5982	-0.1020	0.2512
		Dif.	0.7805	0.2695	0.3109
21.698	0.975	Max.	-0.8457	0.1349	0.5434
		Min.	-1.5520	-0.1086	0.2687
		Dif.	0.7063	0.2435	0.2747
21.698	1.225	Max.	-0.8695	0.1041	0.5323
		Min.	-1.5230	-0.1200	0.2770
		Dif.	0.6534	0.2240	0.2552
21.698	1.475	Max.	-0.8992	0.0716	0.5212
		Min.	-1.5005	-0.1286	0.2858
		Dif.	0.6013	0.2002	0.2354



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.698	1.690	Max.	-0.9254	-0.0145	0.5208
		Min.	-1.4836	-0.1559	0.3128
		Dif.	0.5582	0.1414	0.2080
21.698	1.990	Max.	-0.9690	-0.0145	0.5207
		Min.	-1.4905	-0.1559	0.3130
		Dif.	0.5215	0.1414	0.2076
21.698	2.225	Max.	-1.0102	-0.0423	0.4846
		Min.	-1.5125	-0.2103	0.3169
		Dif.	0.5023	0.1680	0.1677
21.698	2.475	Max.	-1.0498	-0.0492	0.4714
		Min.	-1.5382	-0.2125	0.3273
		Dif.	0.4883	0.1633	0.1441
21.698	2.725	Max.	-1.0861	-0.0501	0.4717
		Min.	-1.5664	-0.2018	0.3223
		Dif.	0.4803	0.1517	0.1495
21.698	2.975	Max.	-1.1104	-0.0397	0.4716
		Min.	-1.5996	-0.1680	0.2971
		Dif.	0.4892	0.1282	0.1745
21.698	3.225	Max.	-1.1354	-0.0152	0.4875
		Min.	-1.6013	-0.1144	0.2604
		Dif.	0.4659	0.0992	0.2271
21.698	3.475	Max.	-1.1451	0.0114	0.4958
		Min.	-1.6204	-0.0631	0.2270
		Dif.	0.4754	0.0745	0.2687
21.698	3.725	Max.	-1.1449	0.0493	0.4970
		Min.	-1.6272	-0.0023	0.1939
		Dif.	0.4823	0.0516	0.3031
21.698	3.975	Max.	-1.1336	0.0827	0.5048
		Min.	-1.5988	0.0582	0.1656
		Dif.	0.4651	0.0245	0.3392
21.698	4.225	Max.	-1.1139	0.1517	0.5061
		Min.	-1.5760	0.0998	0.1325
		Dif.	0.4621	0.0519	0.3736
21.698	4.475	Max.	-1.0835	0.2290	0.4930
		Min.	-1.5346	0.1433	0.1128
		Dif.	0.4511	0.0856	0.3802
21.698	4.725	Max.	-1.0346	0.2799	0.4848
		Min.	-1.4611	0.1907	0.1075
		Dif.	0.4265	0.0891	0.3773
21.698	4.975	Max.	-0.9850	0.3562	0.4776
		Min.	-1.3841	0.2274	0.0820
		Dif.	0.3991	0.1288	0.3956
21.698	5.225	Max.	-0.9206	0.4366	0.4456
		Min.	-1.2932	0.2622	0.0778
		Dif.	0.3727	0.1744	0.3678
21.698	5.475	Max.	-0.8348	0.4898	0.4271
		Min.	-1.1731	0.3029	0.0864
		Dif.	0.3383	0.1870	0.3407
21.698	5.725	Max.	-0.7423	0.5526	0.3960
		Min.	-1.0637	0.3240	0.0814
		Dif.	0.3214	0.2287	0.3146
21.698	5.975	Max.	-0.6356	0.6134	0.3435
		Min.	-0.9483	0.3393	0.0810
		Dif.	0.3127	0.2742	0.2624
21.698	6.225	Max.	-0.5209	0.6653	0.2991
		Min.	-0.7863	0.3687	0.0947
		Dif.	0.2653	0.2967	0.2044



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.698	6.475	Max.	-0.4009	0.6877	0.2546
		Min.	-0.6613	0.3680	0.0863
		Dif.	0.2604	0.3197	0.1683
21.698	6.725	Max.	-0.2772	0.6949	0.2121
		Min.	-0.5170	0.3639	0.0785
		Dif.	0.2399	0.3310	0.1335
21.698	6.750	Max.	-0.2635	0.6839	0.1832
		Min.	-0.4974	0.3344	0.0788
		Dif.	0.2339	0.3495	0.1044
21.948	0.001	Max.	-0.7961	0.1910	0.4304
		Min.	-1.8499	-0.1105	0.1261
		Dif.	1.0538	0.3015	0.3043
21.948	0.225	Max.	-0.8196	0.1901	0.4304
		Min.	-1.8083	-0.1111	0.1261
		Dif.	0.9887	0.3012	0.3043
21.948	0.475	Max.	-0.8458	0.1867	0.4241
		Min.	-1.7626	-0.1124	0.1374
		Dif.	0.9168	0.2991	0.2868
21.948	0.725	Max.	-0.8760	0.1804	0.4179
		Min.	-1.7164	-0.1109	0.1513
		Dif.	0.8404	0.2913	0.2666
21.948	0.975	Max.	-0.8953	0.1443	0.3979
		Min.	-1.6774	-0.1213	0.1651
		Dif.	0.7821	0.2655	0.2328
21.948	1.225	Max.	-0.9273	0.1146	0.3918
		Min.	-1.6394	-0.1292	0.1791
		Dif.	0.7121	0.2438	0.2127
21.948	1.475	Max.	-0.9591	0.0763	0.3725
		Min.	-1.6147	-0.1396	0.1844
		Dif.	0.6555	0.2159	0.1882
21.948	1.690	Max.	-0.9894	-0.0016	0.2864
		Min.	-1.6018	-0.1745	0.1534
		Dif.	0.6124	0.1729	0.1330
21.948	1.990	Max.	-1.0404	-0.0014	0.2864
		Min.	-1.6030	-0.1746	0.1534
		Dif.	0.5626	0.1732	0.1330
21.948	2.225	Max.	-1.0801	-0.0277	0.3490
		Min.	-1.6178	-0.2198	0.2230
		Dif.	0.5377	0.1921	0.1259
21.948	2.475	Max.	-1.1233	-0.0328	0.3521
		Min.	-1.6397	-0.2276	0.2359
		Dif.	0.5164	0.1949	0.1162
21.948	2.725	Max.	-1.1635	-0.0275	0.3599
		Min.	-1.6633	-0.2160	0.2283
		Dif.	0.4998	0.1884	0.1315
21.948	2.975	Max.	-1.1985	-0.0025	0.3650
		Min.	-1.6748	-0.1779	0.2117
		Dif.	0.4762	0.1754	0.1533
21.948	3.225	Max.	-1.2151	0.0150	0.3844
		Min.	-1.7002	-0.1287	0.1759
		Dif.	0.4851	0.1437	0.2085
21.948	3.475	Max.	-1.2255	0.0411	0.3947
		Min.	-1.7015	-0.0695	0.1541
		Dif.	0.4761	0.1107	0.2406
21.948	3.725	Max.	-1.2131	0.0785	0.3998
		Min.	-1.7019	-0.0012	0.1317
		Dif.	0.4888	0.0798	0.2681



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.948	3.975	Max.	-1.2006	0.1243	0.4018
		Min.	-1.6931	0.0457	0.0933
		Dif.	0.4925	0.0786	0.3085
21.948	4.225	Max.	-1.1662	0.1780	0.4090
		Min.	-1.6655	0.0988	0.0688
		Dif.	0.4994	0.0792	0.3402
21.948	4.475	Max.	-1.1205	0.2400	0.4060
		Min.	-1.6211	0.1545	0.0584
		Dif.	0.5006	0.0855	0.3476
21.948	4.725	Max.	-1.0743	0.3091	0.3940
		Min.	-1.5622	0.1886	0.0361
		Dif.	0.4880	0.1205	0.3579
21.948	4.975	Max.	-1.0103	0.3654	0.3906
		Min.	-1.4833	0.2390	0.0260
		Dif.	0.4730	0.1264	0.3646
21.948	5.225	Max.	-0.9365	0.4325	0.3709
		Min.	-1.3858	0.2898	0.0372
		Dif.	0.4494	0.1427	0.3337
21.948	5.475	Max.	-0.8501	0.4956	0.3387
		Min.	-1.2838	0.3138	0.0295
		Dif.	0.4337	0.1819	0.3092
21.948	5.725	Max.	-0.7574	0.5522	0.3226
		Min.	-1.1554	0.3514	0.0372
		Dif.	0.3979	0.2008	0.2854
21.948	5.975	Max.	-0.6556	0.6123	0.2949
		Min.	-1.0116	0.3902	0.0511
		Dif.	0.3560	0.2221	0.2439
21.948	6.225	Max.	-0.5364	0.6621	0.2238
		Min.	-0.8793	0.3997	0.0468
		Dif.	0.3429	0.2624	0.1770
21.948	6.475	Max.	-0.4215	0.6891	0.2064
		Min.	-0.7168	0.4088	0.0503
		Dif.	0.2953	0.2802	0.1562
21.948	6.725	Max.	-0.2993	0.6967	0.1696
		Min.	-0.5619	0.4096	0.0432
		Dif.	0.2626	0.2871	0.1264
21.948	6.750	Max.	-0.2863	0.6932	0.1273
		Min.	-0.5483	0.4204	0.0280
		Dif.	0.2620	0.2728	0.0993
22.198	0.001	Max.	-0.8100	0.1988	0.2638
		Min.	-1.9391	-0.1259	0.0111
		Dif.	1.1290	0.3247	0.2526
22.198	0.225	Max.	-0.8371	0.1978	0.2638
		Min.	-1.8956	-0.1266	0.0111
		Dif.	1.0586	0.3244	0.2526
22.198	0.475	Max.	-0.8672	0.1923	0.2564
		Min.	-1.8479	-0.1274	0.0272
		Dif.	0.9807	0.3196	0.2292
22.198	0.725	Max.	-0.8974	0.1860	0.2502
		Min.	-1.8018	-0.1258	0.0412
		Dif.	0.9044	0.3118	0.2090
22.198	0.975	Max.	-0.9273	0.1702	0.2440
		Min.	-1.7572	-0.1286	0.0551
		Dif.	0.8299	0.2988	0.1888
22.198	1.225	Max.	-0.9593	0.1405	0.2378
		Min.	-1.7192	-0.1365	0.0690
		Dif.	0.7600	0.2771	0.1688



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.198	1.475	Max.	-0.9951	0.0873	0.2372
		Min.	-1.6901	-0.1518	0.0917
		Dif.	0.6950	0.2391	0.1455
22.198	1.690	Max.	-1.0282	-0.0016	0.2864
		Min.	-1.6730	-0.1744	0.1534
		Dif.	0.6448	0.1729	0.1330
22.198	1.990	Max.	-1.0792	-0.0014	0.2864
		Min.	-1.6741	-0.1746	0.1534
		Dif.	0.5949	0.1732	0.1330
22.198	2.225	Max.	-1.1269	-0.0195	0.2273
		Min.	-1.6892	-0.2416	0.1387
		Dif.	0.5623	0.2221	0.0885
22.198	2.475	Max.	-1.1753	-0.0178	0.2280
		Min.	-1.7082	-0.2453	0.1349
		Dif.	0.5328	0.2275	0.0931
22.198	2.725	Max.	-1.2182	0.0003	0.2370
		Min.	-1.7281	-0.2190	0.1221
		Dif.	0.5099	0.2193	0.1149
22.198	2.975	Max.	-1.2525	0.0239	0.2454
		Min.	-1.7404	-0.1796	0.1022
		Dif.	0.4878	0.2034	0.1432
22.198	3.225	Max.	-1.2710	0.0458	0.2557
		Min.	-1.7536	-0.1362	0.0804
		Dif.	0.4826	0.1820	0.1753
22.198	3.475	Max.	-1.2642	0.0719	0.2661
		Min.	-1.7725	-0.0770	0.0586
		Dif.	0.5083	0.1489	0.2075
22.198	3.725	Max.	-1.2459	0.1093	0.2711
		Min.	-1.7788	-0.0086	0.0362
		Dif.	0.5328	0.1179	0.2349
22.198	3.975	Max.	-1.2168	0.1510	0.2762
		Min.	-1.7711	0.0444	0.0138
		Dif.	0.5544	0.1067	0.2624
22.198	4.225	Max.	-1.1795	0.2046	0.2815
		Min.	-1.7465	0.0976	-0.0087
		Dif.	0.5670	0.1070	0.2902
22.198	4.475	Max.	-1.1330	0.2665	0.2783
		Min.	-1.7029	0.1533	-0.0190
		Dif.	0.5699	0.1132	0.2974
22.198	4.725	Max.	-1.0767	0.3185	0.2745
		Min.	-1.6414	0.2000	-0.0287
		Dif.	0.5647	0.1184	0.3031
22.198	4.975	Max.	-1.0113	0.3747	0.2708
		Min.	-1.5639	0.2505	-0.0386
		Dif.	0.5526	0.1242	0.3094
22.198	5.225	Max.	-0.9381	0.4411	0.2525
		Min.	-1.4657	0.3020	-0.0287
		Dif.	0.5276	0.1392	0.2812
22.198	5.475	Max.	-0.8537	0.4960	0.2371
		Min.	-1.3515	0.3404	-0.0217
		Dif.	0.4978	0.1556	0.2588
22.198	5.725	Max.	-0.7607	0.5525	0.2218
		Min.	-1.2234	0.3781	-0.0148
		Dif.	0.4627	0.1744	0.2366
22.198	5.975	Max.	-0.6588	0.6127	0.1952
		Min.	-1.0796	0.4168	-0.0021
		Dif.	0.4208	0.1958	0.1973



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.198	6.225	Max.	-0.5481	0.6518	0.1721
		Min.	-0.9220	0.4371	0.0073
		Dif.	0.3739	0.2148	0.1648
22.198	6.475	Max.	-0.4324	0.6800	0.1549
		Min.	-0.7603	0.4450	0.0106
		Dif.	0.3279	0.2350	0.1443
22.198	6.725	Max.	-0.3125	0.6956	0.1299
		Min.	-0.5932	0.4422	0.0150
		Dif.	0.2807	0.2534	0.1148
22.198	6.750	Max.	-0.3016	0.6933	0.1273
		Min.	-0.5717	0.4204	0.0280
		Dif.	0.2701	0.2730	0.0993
22.448	0.001	Max.	-0.7938	0.2059	0.0885
		Min.	-1.9847	-0.1430	-0.1108
		Dif.	1.1909	0.3488	0.1993
22.448	0.225	Max.	-0.8247	0.2049	0.0886
		Min.	-1.9397	-0.1436	-0.1108
		Dif.	1.1150	0.3485	0.1994
22.448	0.475	Max.	-0.8593	0.2016	0.0835
		Min.	-1.8901	-0.1447	-0.0975
		Dif.	1.0308	0.3463	0.1810
22.448	0.725	Max.	-0.8895	0.1953	0.0774
		Min.	-1.8439	-0.1431	-0.0836
		Dif.	0.9544	0.3384	0.1609
22.448	0.975	Max.	-0.9324	0.1540	0.0743
		Min.	-1.7938	-0.1523	-0.0525
		Dif.	0.8614	0.3064	0.1268
22.448	1.225	Max.	-0.9641	0.1244	0.0690
		Min.	-1.7560	-0.1603	-0.0394
		Dif.	0.7918	0.2847	0.1084
22.448	1.475	Max.	-1.0038	0.0871	0.0677
		Min.	-1.7285	-0.1685	-0.0231
		Dif.	0.7246	0.2556	0.0908
22.448	1.690	Max.	-1.0378	0.0028	0.0185
		Min.	-1.7106	-0.2158	-0.0288
		Dif.	0.6727	0.2185	0.0473
22.448	1.990	Max.	-1.1003	0.0030	0.0185
		Min.	-1.7112	-0.2160	-0.0288
		Dif.	0.6108	0.2190	0.0473
22.448	2.225	Max.	-1.1508	-0.0119	0.0824
		Min.	-1.7253	-0.2593	0.0257
		Dif.	0.5745	0.2474	0.0567
22.448	2.475	Max.	-1.2032	-0.0052	0.0970
		Min.	-1.7412	-0.2609	0.0278
		Dif.	0.5380	0.2557	0.0692
22.448	2.725	Max.	-1.2508	0.0066	0.1055
		Min.	-1.7567	-0.2465	0.0228
		Dif.	0.5060	0.2531	0.0827
22.448	2.975	Max.	-1.2809	0.0300	0.1140
		Min.	-1.7731	-0.2069	0.0028
		Dif.	0.4922	0.2369	0.1112
22.448	3.225	Max.	-1.2825	0.0622	0.1260
		Min.	-1.7947	-0.1466	-0.0148
		Dif.	0.5122	0.2088	0.1408
22.448	3.475	Max.	-1.2728	0.0883	0.1364
		Min.	-1.8166	-0.0874	-0.0367
		Dif.	0.5438	0.1757	0.1730



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.448	3.725	Max.	-1.2522	0.1257	0.1414
		Min.	-1.8252	-0.0191	-0.0590
		Dif.	0.5730	0.1447	0.2005
22.448	3.975	Max.	-1.2079	0.1652	0.1527
		Min.	-1.8217	0.0394	-0.0705
		Dif.	0.6139	0.1258	0.2232
22.448	4.225	Max.	-1.1703	0.2187	0.1579
		Min.	-1.7974	0.0926	-0.0949
		Dif.	0.6270	0.1261	0.2528
22.448	4.475	Max.	-1.1224	0.2806	0.1544
		Min.	-1.7552	0.1484	-0.1062
		Dif.	0.6328	0.1323	0.2606
22.448	4.725	Max.	-1.0600	0.3108	0.1568
		Min.	-1.6922	0.2044	-0.1018
		Dif.	0.6322	0.1064	0.2586
22.448	4.975	Max.	-0.9925	0.3670	0.1569
		Min.	-1.6168	0.2549	-0.1155
		Dif.	0.6243	0.1121	0.2724
22.448	5.225	Max.	-0.9201	0.4337	0.1402
		Min.	-1.5179	0.3062	-0.1070
		Dif.	0.5979	0.1275	0.2472
22.448	5.475	Max.	-0.8429	0.4945	0.1397
		Min.	-1.3948	0.3376	-0.0770
		Dif.	0.5520	0.1569	0.2167
22.448	5.725	Max.	-0.7472	0.5536	0.1268
		Min.	-1.2695	0.3728	-0.0736
		Dif.	0.5223	0.1808	0.2004
22.448	5.975	Max.	-0.6443	0.6154	0.1018
		Min.	-1.1267	0.4099	-0.0620
		Dif.	0.4824	0.2055	0.1638
22.448	6.225	Max.	-0.5466	0.6709	0.0988
		Min.	-0.9508	0.4383	-0.0278
		Dif.	0.4042	0.2326	0.1266
22.448	6.475	Max.	-0.4316	0.6904	0.0834
		Min.	-0.7885	0.4549	-0.0261
		Dif.	0.3568	0.2355	0.1096
22.448	6.725	Max.	-0.3165	0.6976	0.0682
		Min.	-0.6132	0.4596	-0.0224
		Dif.	0.2967	0.2380	0.0906
22.448	6.750	Max.	-0.3030	0.6999	0.0434
		Min.	-0.5960	0.4523	-0.0277
		Dif.	0.2931	0.2476	0.0711
22.698	0.001	Max.	-0.7471	0.2122	-0.0839
		Min.	-1.9852	-0.1606	-0.2383
		Dif.	1.2381	0.3728	0.1543
22.698	0.225	Max.	-0.7819	0.2112	-0.0839
		Min.	-1.9388	-0.1612	-0.2383
		Dif.	1.1569	0.3725	0.1544
22.698	0.475	Max.	-0.8207	0.2077	-0.0850
		Min.	-1.8878	-0.1628	-0.2274
		Dif.	1.0672	0.3706	0.1424
22.698	0.725	Max.	-0.8649	0.1984	-0.0852
		Min.	-1.8376	-0.1638	-0.2124
		Dif.	0.9726	0.3622	0.1272
22.698	0.975	Max.	-0.8936	0.1607	-0.0789
		Min.	-1.7911	-0.1723	-0.1864
		Dif.	0.8975	0.3330	0.1075



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.698	1.225	Max.	-0.9409	0.1226	-0.0788
		Min.	-1.7516	-0.1826	-0.1716
		Dif.	0.8107	0.3052	0.0929
22.698	1.475	Max.	-0.9872	0.0780	-0.0662
		Min.	-1.7258	-0.1968	-0.1408
		Dif.	0.7386	0.2748	0.0747
22.698	1.690	Max.	-1.0323	0.0028	0.0185
		Min.	-1.7135	-0.2157	-0.0288
		Dif.	0.6812	0.2185	0.0473
22.698	1.990	Max.	-1.0948	0.0030	0.0185
		Min.	-1.7141	-0.2160	-0.0288
		Dif.	0.6193	0.2190	0.0473
22.698	2.225	Max.	-1.1504	-0.0058	-0.0329
		Min.	-1.7261	-0.2790	-0.0733
		Dif.	0.5757	0.2732	0.0404
22.698	2.475	Max.	-1.2050	0.0064	-0.0252
		Min.	-1.7421	-0.2782	-0.0809
		Dif.	0.5370	0.2846	0.0557
22.698	2.725	Max.	-1.2556	0.0177	-0.0154
		Min.	-1.7548	-0.2602	-0.0886
		Dif.	0.4991	0.2779	0.0732
22.698	2.975	Max.	-1.2843	0.0467	-0.0326
		Min.	-1.7762	-0.2247	-0.1411
		Dif.	0.4919	0.2714	0.1085
22.698	3.225	Max.	-1.2775	0.0789	-0.0113
		Min.	-1.8046	-0.1623	-0.1744
		Dif.	0.5271	0.2412	0.1631
22.698	3.475	Max.	-1.2566	0.1046	0.0438
		Min.	-1.8329	-0.0977	-0.1307
		Dif.	0.5762	0.2024	0.1745
22.698	3.725	Max.	-1.2242	0.1406	0.0205
		Min.	-1.8493	-0.0314	-0.1712
		Dif.	0.6251	0.1720	0.1917
22.698	3.975	Max.	-1.1875	0.1921	0.0325
		Min.	-1.8429	0.0212	-0.2043
		Dif.	0.6554	0.1709	0.2368
22.698	4.225	Max.	-1.1379	0.2330	0.0789
		Min.	-1.8231	0.0876	-0.1795
		Dif.	0.6852	0.1453	0.2584
22.698	4.475	Max.	-1.0821	0.2739	0.0460
		Min.	-1.7824	0.1520	-0.2019
		Dif.	0.7003	0.1219	0.2479
22.698	4.725	Max.	-1.0216	0.3227	0.0426
		Min.	-1.7204	0.2047	-0.2146
		Dif.	0.6989	0.1179	0.2572
22.698	4.975	Max.	-0.9579	0.3597	0.0821
		Min.	-1.6418	0.2590	-0.1845
		Dif.	0.6840	0.1008	0.2665
22.698	5.225	Max.	-0.8911	0.4316	0.0436
		Min.	-1.5425	0.2853	-0.1785
		Dif.	0.6514	0.1463	0.2220
22.698	5.475	Max.	-0.8053	0.4996	0.0308
		Min.	-1.4261	0.3211	-0.1639
		Dif.	0.6208	0.1785	0.1948
22.698	5.725	Max.	-0.7247	0.5653	0.0605
		Min.	-1.2892	0.3569	-0.1284
		Dif.	0.5645	0.2084	0.1889



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.698	5.975	Max.	-0.6361	0.6306	0.0228
		Min.	-1.1361	0.3808	-0.1220
		Dif.	0.5000	0.2498	0.1449
22.698	6.225	Max.	-0.5264	0.6844	0.0012
		Min.	-0.9744	0.4128	-0.1027
		Dif.	0.4480	0.2716	0.1039
22.698	6.475	Max.	-0.4221	0.7093	0.0287
		Min.	-0.7999	0.4361	-0.0716
		Dif.	0.3778	0.2732	0.1003
22.698	6.725	Max.	-0.3124	0.7129	0.0270
		Min.	-0.6199	0.4432	-0.0553
		Dif.	0.3076	0.2698	0.0823
22.698	6.750	Max.	-0.3020	0.6999	0.0434
		Min.	-0.6009	0.4523	-0.0277
		Dif.	0.2989	0.2476	0.0711
22.948	0.001	Max.	-0.6700	0.2182	-0.2113
		Min.	-1.9420	-0.1801	-0.3953
		Dif.	1.2720	0.3984	0.1840
22.948	0.225	Max.	-0.7090	0.2173	-0.2113
		Min.	-1.8944	-0.1807	-0.3953
		Dif.	1.1853	0.3980	0.1840
22.948	0.475	Max.	-0.7528	0.2106	-0.2127
		Min.	-1.8418	-0.1831	-0.3791
		Dif.	1.0890	0.3937	0.1664
22.948	0.725	Max.	-0.7970	0.2013	-0.2129
		Min.	-1.7915	-0.1840	-0.3640
		Dif.	0.9945	0.3853	0.1511
22.948	0.975	Max.	-0.8417	0.1804	-0.2130
		Min.	-1.7437	-0.1890	-0.3491
		Dif.	0.9020	0.3694	0.1361
22.948	1.225	Max.	-0.8890	0.1423	-0.2129
		Min.	-1.7042	-0.1993	-0.3344
		Dif.	0.8152	0.3416	0.1214
22.948	1.475	Max.	-0.9409	0.0775	-0.2071
		Min.	-1.6782	-0.2178	-0.3085
		Dif.	0.7374	0.2953	0.1015
22.948	1.690	Max.	-0.9856	-0.0087	-0.1924
		Min.	-1.6604	-0.2742	-0.2891
		Dif.	0.6748	0.2656	0.0967
22.948	1.990	Max.	-1.0616	-0.0084	-0.1924
		Min.	-1.6683	-0.2745	-0.2891
		Dif.	0.6067	0.2661	0.0967
22.948	2.225	Max.	-1.1233	-0.0084	-0.1434
		Min.	-1.6930	-0.3102	-0.2347
		Dif.	0.5697	0.3017	0.0913
22.948	2.475	Max.	-1.1869	0.0101	-0.1263
		Min.	-1.7042	-0.2936	-0.2268
		Dif.	0.5173	0.3037	0.1005
22.948	2.725	Max.	-1.2361	0.0339	-0.1013
		Min.	-1.7196	-0.2623	-0.2237
		Dif.	0.4835	0.2963	0.1223
22.948	2.975	Max.	-1.2530	0.0632	-0.1184
		Min.	-1.7531	-0.2271	-0.2763
		Dif.	0.5002	0.2903	0.1579
22.948	3.225	Max.	-1.2453	0.0949	-0.1008
		Min.	-1.7909	-0.1723	-0.2796
		Dif.	0.5456	0.2672	0.1788



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.948	3.475	Max.	-1.2211	0.1211	-0.0455
		Min.	-1.8225	-0.1082	-0.2361
		Dif.	0.6014	0.2293	0.1905
22.948	3.725	Max.	-1.1850	0.1606	-0.0687
		Min.	-1.8426	-0.0430	-0.2767
		Dif.	0.6576	0.2036	0.2080
22.948	3.975	Max.	-1.1416	0.2064	-0.0557
		Min.	-1.8437	0.0160	-0.2771
		Dif.	0.7020	0.1904	0.2213
22.948	4.225	Max.	-1.0930	0.2472	-0.0093
		Min.	-1.8228	0.0826	-0.2523
		Dif.	0.7298	0.1646	0.2430
22.948	4.475	Max.	-1.0372	0.2881	-0.0425
		Min.	-1.7822	0.1470	-0.2745
		Dif.	0.7450	0.1411	0.2321
22.948	4.725	Max.	-0.9776	0.3152	-0.0430
		Min.	-1.7215	0.2090	-0.2684
		Dif.	0.7439	0.1062	0.2254
22.948	4.975	Max.	-0.9175	0.3598	-0.0062
		Min.	-1.6393	0.2557	-0.2357
		Dif.	0.7218	0.1041	0.2295
22.948	5.225	Max.	-0.8475	0.4354	-0.0426
		Min.	-1.5432	0.2784	-0.2318
		Dif.	0.6957	0.1571	0.1893
22.948	5.475	Max.	-0.7748	0.5113	-0.0456
		Min.	-1.4243	0.3051	-0.2117
		Dif.	0.6495	0.2062	0.1661
22.948	5.725	Max.	-0.6942	0.5770	-0.0161
		Min.	-1.2873	0.3410	-0.1761
		Dif.	0.5932	0.2360	0.1601
22.948	5.975	Max.	-0.6055	0.6424	-0.0536
		Min.	-1.1343	0.3648	-0.1698
		Dif.	0.5288	0.2777	0.1162
22.948	6.225	Max.	-0.5098	0.6922	-0.0551
		Min.	-0.9673	0.3888	-0.1525
		Dif.	0.4574	0.3034	0.0974
22.948	6.475	Max.	-0.4037	0.7170	-0.0278
		Min.	-0.7946	0.4121	-0.1212
		Dif.	0.3908	0.3049	0.0933
22.948	6.725	Max.	-0.2983	0.7299	-0.0311
		Min.	-0.6117	0.4227	-0.1069
		Dif.	0.3133	0.3072	0.0758
22.948	6.750	Max.	-0.2863	0.7255	-0.0340
		Min.	-0.5913	0.4223	-0.1006
		Dif.	0.3050	0.3031	0.0666
23.198	0.001	Max.	-0.5653	0.2236	-0.3269
		Min.	-1.8569	-0.2003	-0.5436
		Dif.	1.2916	0.4239	0.2166
23.198	0.225	Max.	-0.6089	0.2226	-0.3269
		Min.	-1.8081	-0.2009	-0.5436
		Dif.	1.1992	0.4235	0.2166
23.198	0.475	Max.	-0.6577	0.2189	-0.3290
		Min.	-1.7542	-0.2025	-0.5298
		Dif.	1.0965	0.4215	0.2007
23.198	0.725	Max.	-0.7020	0.2096	-0.3295
		Min.	-1.7039	-0.2035	-0.5145
		Dif.	1.0019	0.4131	0.1851



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.198	0.975	Max.	-0.7617	0.1553	-0.3377
		Min.	-1.6505	-0.2215	-0.4859
		Dif.	0.8888	0.3768	0.1482
23.198	1.225	Max.	-0.8090	0.1172	-0.3334
		Min.	-1.6109	-0.2318	-0.4754
		Dif.	0.8019	0.3490	0.1419
23.198	1.475	Max.	-0.8680	0.0520	-0.3295
		Min.	-1.5881	-0.2529	-0.4747
		Dif.	0.7201	0.3049	0.1452
23.198	1.690	Max.	-0.9207	-0.0333	-0.3742
		Min.	-1.5888	-0.3704	-0.5748
		Dif.	0.6681	0.3371	0.2006
23.198	1.990	Max.	-1.0163	-0.0333	-0.3742
		Min.	-1.6132	-0.3704	-0.5748
		Dif.	0.5969	0.3371	0.2006
23.198	2.225	Max.	-1.0757	0.0004	-0.2578
		Min.	-1.6163	-0.3174	-0.4082
		Dif.	0.5406	0.3178	0.1504
23.198	2.475	Max.	-1.1390	0.0085	-0.2258
		Min.	-1.6312	-0.3116	-0.3833
		Dif.	0.4921	0.3201	0.1574
23.198	2.725	Max.	-1.1870	0.0342	-0.2005
		Min.	-1.6513	-0.2784	-0.3730
		Dif.	0.4643	0.3127	0.1725
23.198	2.975	Max.	-1.1952	0.0597	-0.1796
		Min.	-1.6957	-0.2427	-0.3631
		Dif.	0.5005	0.3024	0.1835
23.198	3.225	Max.	-1.1836	0.0882	-0.1612
		Min.	-1.7410	-0.1884	-0.3555
		Dif.	0.5573	0.2765	0.1943
23.198	3.475	Max.	-1.1597	0.1164	-0.1405
		Min.	-1.7820	-0.1309	-0.3397
		Dif.	0.6223	0.2473	0.1992
23.198	3.725	Max.	-1.1236	0.1545	-0.1281
		Min.	-1.8028	-0.0520	-0.3318
		Dif.	0.6792	0.2064	0.2037
23.198	3.975	Max.	-1.0827	0.1931	-0.1120
		Min.	-1.8082	-0.0017	-0.3109
		Dif.	0.7255	0.1948	0.1988
23.198	4.225	Max.	-1.0332	0.2460	-0.1074
		Min.	-1.7923	0.0753	-0.3051
		Dif.	0.7590	0.1707	0.1976
23.198	4.475	Max.	-0.9773	0.2855	-0.0996
		Min.	-1.7513	0.1556	-0.2932
		Dif.	0.7740	0.1299	0.1935
23.198	4.725	Max.	-0.9209	0.3052	-0.1079
		Min.	-1.6881	0.2041	-0.2822
		Dif.	0.7672	0.1010	0.1743
23.198	4.975	Max.	-0.8639	0.3536	-0.1036
		Min.	-1.6105	0.2378	-0.2625
		Dif.	0.7466	0.1158	0.1589
23.198	5.225	Max.	-0.8010	0.4338	-0.1028
		Min.	-1.5115	0.2629	-0.2426
		Dif.	0.7105	0.1709	0.1398
23.198	5.475	Max.	-0.7320	0.5078	-0.1037
		Min.	-1.3934	0.2901	-0.2259
		Dif.	0.6615	0.2177	0.1221



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.198	5.725	Max.	-0.6557	0.5791	-0.1053
		Min.	-1.2579	0.3211	-0.2090
		Dif.	0.6022	0.2580	0.1037
23.198	5.975	Max.	-0.5713	0.6426	-0.1065
		Min.	-1.1035	0.3480	-0.1911
		Dif.	0.5322	0.2946	0.0846
23.198	6.225	Max.	-0.4808	0.6855	-0.1005
		Min.	-0.9360	0.3717	-0.1772
		Dif.	0.4552	0.3138	0.0766
23.198	6.475	Max.	-0.3811	0.7132	-0.0941
		Min.	-0.7639	0.3903	-0.1622
		Dif.	0.3828	0.3230	0.0681
23.198	6.725	Max.	-0.2765	0.7188	-0.0884
		Min.	-0.5875	0.3923	-0.1575
		Dif.	0.3110	0.3265	0.0691
23.198	6.750	Max.	-0.2647	0.7094	-0.0981
		Min.	-0.5698	0.3750	-0.1858
		Dif.	0.3051	0.3344	0.0877
23.390	2.225	Max.	-1.0200	-0.0174	-0.3325
		Min.	-1.5295	-0.3573	-0.5654
		Dif.	0.5095	0.3398	0.2329
23.390	2.475	Max.	-1.0881	-0.0174	-0.3325
		Min.	-1.5542	-0.3573	-0.5654
		Dif.	0.4661	0.3398	0.2329
23.390	2.725	Max.	-1.1294	0.0238	-0.2679
		Min.	-1.5847	-0.2947	-0.4974
		Dif.	0.4553	0.3185	0.2296
23.390	2.975	Max.	-1.1422	0.0238	-0.2679
		Min.	-1.6393	-0.2947	-0.4974
		Dif.	0.4971	0.3185	0.2296
23.390	3.225	Max.	-1.1240	0.0743	-0.2145
		Min.	-1.6896	-0.1931	-0.4181
		Dif.	0.5656	0.2674	0.2035
23.390	3.475	Max.	-1.1058	0.0741	-0.2146
		Min.	-1.7375	-0.1929	-0.4180
		Dif.	0.6318	0.2670	0.2034
23.390	3.725	Max.	-1.0670	0.1266	-0.1805
		Min.	-1.7583	-0.0554	-0.3387
		Dif.	0.6913	0.1819	0.1582
23.390	3.975	Max.	-1.0360	0.1266	-0.1805
		Min.	-1.7721	-0.0553	-0.3387
		Dif.	0.7361	0.1819	0.1582
23.390	4.225	Max.	-0.9834	0.2069	-0.1634
		Min.	-1.7504	0.0701	-0.2822
		Dif.	0.7670	0.1368	0.1188
23.390	4.475	Max.	-0.9289	0.2976	-0.1310
		Min.	-1.7176	0.1968	-0.2517
		Dif.	0.7887	0.1008	0.1208
23.390	4.725	Max.	-0.8765	0.2976	-0.1310
		Min.	-1.6464	0.1968	-0.2517
		Dif.	0.7699	0.1008	0.1208
23.390	4.975	Max.	-0.8250	0.3346	-0.1411
		Min.	-1.5715	0.2163	-0.2496
		Dif.	0.7465	0.1183	0.1084
23.390	5.225	Max.	-0.7645	0.4203	-0.1460
		Min.	-1.4766	0.2471	-0.2424
		Dif.	0.7121	0.1732	0.0964



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.390	5.475	Max.	-0.6978	0.4991	-0.1460
		Min.	-1.3590	0.2751	-0.2392
		Dif.	0.6613	0.2240	0.0931
23.390	5.725	Max.	-0.6237	0.5665	-0.1423
		Min.	-1.2228	0.3023	-0.2397
		Dif.	0.5991	0.2642	0.0974
23.390	5.975	Max.	-0.5425	0.6216	-0.1371
		Min.	-1.0699	0.3270	-0.2356
		Dif.	0.5274	0.2946	0.0985
23.390	6.225	Max.	-0.4552	0.6636	-0.1289
		Min.	-0.9040	0.3479	-0.2290
		Dif.	0.4489	0.3157	0.1001
23.390	6.475	Max.	-0.3579	0.6923	-0.1187
		Min.	-0.7331	0.3636	-0.2175
		Dif.	0.3752	0.3286	0.0988
23.390	6.725	Max.	-0.2557	0.7075	-0.1046
		Min.	-0.5560	0.3734	-0.1968
		Dif.	0.3004	0.3341	0.0922
23.448	0.001	Max.	-0.4365	0.2283	-0.4268
		Min.	-1.7333	-0.2201	-0.6724
		Dif.	1.2969	0.4483	0.2455
23.448	0.225	Max.	-0.4845	0.2273	-0.4268
		Min.	-1.6835	-0.2207	-0.6724
		Dif.	1.1990	0.4480	0.2455
23.448	0.475	Max.	-0.5381	0.2237	-0.4290
		Min.	-1.6284	-0.2229	-0.6577
		Dif.	1.0903	0.4466	0.2287
23.448	0.725	Max.	-0.5984	0.2154	-0.4307
		Min.	-1.5746	-0.2278	-0.6351
		Dif.	0.9761	0.4432	0.2044
23.448	0.975	Max.	-0.6421	0.1670	-0.4321
		Min.	-1.5227	-0.2406	-0.6061
		Dif.	0.8805	0.4075	0.1740
23.448	1.225	Max.	-0.7076	0.1211	-0.4213
		Min.	-1.4812	-0.2564	-0.5961
		Dif.	0.7736	0.3775	0.1748
23.448	1.475	Max.	-0.7722	0.0637	-0.4051
		Min.	-1.4560	-0.2738	-0.5892
		Dif.	0.6838	0.3375	0.1841
23.448	1.690	Max.	-0.8271	-0.0333	-0.3742
		Min.	-1.4451	-0.3704	-0.5748
		Dif.	0.6180	0.3371	0.2006
23.690	2.225	Max.	-0.9152	-0.0174	-0.3325
		Min.	-1.3650	-0.3573	-0.5654
		Dif.	0.4498	0.3398	0.2329
23.690	2.475	Max.	-0.9816	-0.0174	-0.3325
		Min.	-1.3913	-0.3573	-0.5654
		Dif.	0.4097	0.3398	0.2329
23.690	2.725	Max.	-1.0195	0.0238	-0.2679
		Min.	-1.4654	-0.2947	-0.4974
		Dif.	0.4459	0.3185	0.2296
23.690	2.975	Max.	-1.0229	0.0238	-0.2679
		Min.	-1.5297	-0.2947	-0.4974
		Dif.	0.5068	0.3185	0.2296
23.690	3.225	Max.	-1.0211	0.0738	-0.2147
		Min.	-1.6032	-0.1926	-0.4179
		Dif.	0.5820	0.2665	0.2032



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.690	3.475	Max.	-1.0028	0.0737	-0.2147
		Min.	-1.6512	-0.1925	-0.4179
		Dif.	0.6483	0.2663	0.2032
23.690	3.725	Max.	-0.9834	0.1264	-0.1805
		Min.	-1.6865	-0.0552	-0.3387
		Dif.	0.7031	0.1816	0.1582
23.690	3.975	Max.	-0.9524	0.1264	-0.1805
		Min.	-1.7003	-0.0552	-0.3387
		Dif.	0.7478	0.1816	0.1582
23.690	4.225	Max.	-0.9160	0.2069	-0.1634
		Min.	-1.6843	0.0701	-0.2822
		Dif.	0.7683	0.1368	0.1188
23.690	4.475	Max.	-0.8818	0.2976	-0.1310
		Min.	-1.6499	0.1968	-0.2517
		Dif.	0.7681	0.1008	0.1208
23.690	4.975	Max.	-0.7762	0.3346	-0.1411
		Min.	-1.5031	0.2163	-0.2496
		Dif.	0.7269	0.1183	0.1084
23.690	5.225	Max.	-0.7170	0.4203	-0.1460
		Min.	-1.4076	0.2471	-0.2424
		Dif.	0.6907	0.1732	0.0964
23.690	5.475	Max.	-0.6522	0.4991	-0.1460
		Min.	-1.2890	0.2750	-0.2392
		Dif.	0.6367	0.2241	0.0931
23.690	5.725	Max.	-0.5802	0.5665	-0.1423
		Min.	-1.1516	0.3023	-0.2397
		Dif.	0.5714	0.2642	0.0974
23.690	5.975	Max.	-0.5014	0.6216	-0.1371
		Min.	-0.9993	0.3270	-0.2356
		Dif.	0.4980	0.2946	0.0985
23.690	6.225	Max.	-0.4159	0.6636	-0.1289
		Min.	-0.8359	0.3479	-0.2290
		Dif.	0.4200	0.3157	0.1001
23.690	6.475	Max.	-0.3206	0.6923	-0.1187
		Min.	-0.6695	0.3636	-0.2175
		Dif.	0.3490	0.3286	0.0988
23.690	6.725	Max.	-0.2216	0.7075	-0.1046
		Min.	-0.4996	0.3734	-0.1968
		Dif.	0.2780	0.3341	0.0922
23.698	0.001	Max.	-0.2886	0.2345	-0.5051
		Min.	-1.5766	-0.2428	-0.7733
		Dif.	1.2880	0.4773	0.2682
23.698	0.225	Max.	-0.3413	0.2330	-0.5051
		Min.	-1.5258	-0.2434	-0.7733
		Dif.	1.1844	0.4764	0.2682
23.698	0.475	Max.	-0.4003	0.2247	-0.5077
		Min.	-1.4697	-0.2459	-0.7513
		Dif.	1.0693	0.4707	0.2436
23.698	0.725	Max.	-0.4607	0.2164	-0.5086
		Min.	-1.4157	-0.2508	-0.7294
		Dif.	0.9550	0.4672	0.2208
23.698	0.975	Max.	-0.5223	0.1926	-0.5084
		Min.	-1.3641	-0.2599	-0.7087
		Dif.	0.8418	0.4525	0.2003
23.698	1.225	Max.	-0.5878	0.1467	-0.4971
		Min.	-1.3226	-0.2757	-0.6992
		Dif.	0.7347	0.4224	0.2021



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.698	1.475	Max.	-0.6538	0.0547	-0.4676
		Min.	-1.3042	-0.3092	-0.6790
		Dif.	0.6504	0.3639	0.2114
23.698	1.690	Max.	-0.7281	-0.0341	-0.3905
		Min.	-1.2963	-0.3784	-0.6059
		Dif.	0.5682	0.3442	0.2154
23.698	1.990	Max.	-0.8280	-0.0341	-0.3905
		Min.	-1.3190	-0.3784	-0.6059
		Dif.	0.4910	0.3442	0.2154
23.698	2.225	Max.	-0.9064	-0.0377	-0.3770
		Min.	-1.3519	-0.3999	-0.6457
		Dif.	0.4454	0.3622	0.2687
23.698	2.475	Max.	-0.9777	-0.0317	-0.3424
		Min.	-1.3861	-0.3905	-0.6149
		Dif.	0.4084	0.3588	0.2725
23.698	2.725	Max.	-1.0111	-0.0078	-0.3034
		Min.	-1.4562	-0.3502	-0.5668
		Dif.	0.4451	0.3425	0.2634
23.698	2.975	Max.	-1.0188	0.0105	-0.2695
		Min.	-1.5287	-0.3110	-0.5180
		Dif.	0.5099	0.3215	0.2485
23.698	3.225	Max.	-1.0143	0.0425	-0.2366
		Min.	-1.5989	-0.2410	-0.4578
		Dif.	0.5846	0.2835	0.2212
23.698	3.475	Max.	-0.9996	0.0643	-0.2151
		Min.	-1.6515	-0.1831	-0.4105
		Dif.	0.6519	0.2474	0.1954
23.698	3.725	Max.	-0.9786	0.0978	-0.1909
		Min.	-1.6862	-0.0886	-0.3521
		Dif.	0.7076	0.1864	0.1612
23.698	3.975	Max.	-0.9500	0.1290	-0.1820
		Min.	-1.6999	-0.0221	-0.3180
		Dif.	0.7499	0.1511	0.1360
23.698	4.225	Max.	-0.9156	0.1844	-0.1661
		Min.	-1.6859	0.0709	-0.2707
		Dif.	0.7703	0.1134	0.1046
23.698	4.475	Max.	-0.8778	0.2519	-0.1486
		Min.	-1.6451	0.1620	-0.2622
		Dif.	0.7673	0.0900	0.1137
23.698	4.610	Max.	-0.8524	0.2976	-0.1310
		Min.	-1.6098	0.1968	-0.2517
		Dif.	0.7574	0.1008	0.1208
23.698	4.910	Max.	-0.7896	0.2976	-0.1310
		Min.	-1.5243	0.1968	-0.2517
		Dif.	0.7348	0.1008	0.1208
23.698	4.975	Max.	-0.7761	0.3512	-0.1310
		Min.	-1.4999	0.2117	-0.2558
		Dif.	0.7238	0.1395	0.1248
23.698	5.225	Max.	-0.7192	0.4341	-0.1341
		Min.	-1.4021	0.2417	-0.2549
		Dif.	0.6829	0.1924	0.1209
23.698	5.475	Max.	-0.6528	0.5130	-0.1317
		Min.	-1.2850	0.2725	-0.2605
		Dif.	0.6322	0.2405	0.1288
23.698	5.725	Max.	-0.5802	0.5797	-0.1308
		Min.	-1.1477	0.3018	-0.2650
		Dif.	0.5675	0.2779	0.1342



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.698	5.975	Max.	-0.5008	0.6322	-0.1303
		Min.	-0.9953	0.3277	-0.2649
		Dif.	0.4945	0.3045	0.1346
23.698	6.225	Max.	-0.4150	0.6702	-0.1273
		Min.	-0.8317	0.3487	-0.2601
		Dif.	0.4167	0.3215	0.1328
23.698	6.475	Max.	-0.3193	0.6932	-0.1221
		Min.	-0.6657	0.3634	-0.2468
		Dif.	0.3464	0.3299	0.1247
23.698	6.725	Max.	-0.2202	0.7010	-0.1128
		Min.	-0.4967	0.3707	-0.2215
		Dif.	0.2765	0.3303	0.1087
23.698	6.750	Max.	-0.2110	0.7094	-0.0981
		Min.	-0.4815	0.3750	-0.1858
		Dif.	0.2705	0.3344	0.0877
23.948	0.001	Max.	-0.1280	0.2372	-0.5547
		Min.	-1.3934	-0.2651	-0.8474
		Dif.	1.2654	0.5023	0.2927
23.948	0.225	Max.	-0.1854	0.2357	-0.5547
		Min.	-1.3423	-0.2658	-0.8474
		Dif.	1.1569	0.5015	0.2927
23.948	0.475	Max.	-0.2496	0.2329	-0.5579
		Min.	-1.2859	-0.2681	-0.8285
		Dif.	1.0363	0.5010	0.2706
23.948	0.725	Max.	-0.3100	0.2202	-0.5603
		Min.	-1.2319	-0.2687	-0.8051
		Dif.	0.9219	0.4889	0.2449
23.948	0.975	Max.	-0.3883	0.1620	-0.5550
		Min.	-1.1793	-0.2967	-0.7732
		Dif.	0.7910	0.4588	0.2182
23.948	1.225	Max.	-0.4539	0.1162	-0.5378
		Min.	-1.1377	-0.3126	-0.7697
		Dif.	0.6838	0.4287	0.2318
23.948	1.475	Max.	-0.5305	0.0560	-0.5121
		Min.	-1.1186	-0.3360	-0.7596
		Dif.	0.5880	0.3920	0.2475
23.948	1.690	Max.	-0.6067	-0.0333	-0.4360
		Min.	-1.1086	-0.4110	-0.7009
		Dif.	0.5019	0.3777	0.2649
23.948	1.990	Max.	-0.7112	-0.0333	-0.4360
		Min.	-1.1361	-0.4110	-0.7009
		Dif.	0.4249	0.3777	0.2649
23.948	2.225	Max.	-0.7974	-0.0649	-0.4163
		Min.	-1.1771	-0.4630	-0.7382
		Dif.	0.3798	0.3981	0.3220
23.948	2.475	Max.	-0.8602	-0.0666	-0.3706
		Min.	-1.2465	-0.4533	-0.6963
		Dif.	0.3863	0.3867	0.3257
23.948	2.725	Max.	-0.8919	-0.0545	-0.3284
		Min.	-1.3410	-0.4166	-0.6384
		Dif.	0.4490	0.3621	0.3100
23.948	2.975	Max.	-0.9074	-0.0361	-0.2858
		Min.	-1.4346	-0.3634	-0.5674
		Dif.	0.5272	0.3272	0.2817
23.948	3.225	Max.	-0.9136	-0.0107	-0.2521
		Min.	-1.5176	-0.2933	-0.4962
		Dif.	0.6040	0.2825	0.2441



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.948	3.475	Max.	-0.9119	0.0170	-0.2208
		Min.	-1.5817	-0.2133	-0.4261
		Dif.	0.6698	0.2303	0.2054
23.948	3.725	Max.	-0.9029	0.0487	-0.1965
		Min.	-1.6244	-0.1182	-0.3641
		Dif.	0.7215	0.1668	0.1676
23.948	3.975	Max.	-0.8851	0.0851	-0.1808
		Min.	-1.6427	-0.0192	-0.3105
		Dif.	0.7576	0.1044	0.1297
23.948	4.225	Max.	-0.8568	0.1468	-0.1621
		Min.	-1.6361	0.0694	-0.2754
		Dif.	0.7793	0.0774	0.1133
23.948	4.475	Max.	-0.8321	0.2271	-0.1408
		Min.	-1.5871	0.1425	-0.2605
		Dif.	0.7551	0.0846	0.1197
23.948	4.610	Max.	-0.8090	0.3159	-0.1066
		Min.	-1.5553	0.1679	-0.2460
		Dif.	0.7463	0.1480	0.1394
23.948	4.910	Max.	-0.7574	0.3159	-0.1066
		Min.	-1.4617	0.1679	-0.2460
		Dif.	0.7043	0.1480	0.1394
23.948	4.975	Max.	-0.7425	0.3684	-0.1119
		Min.	-1.4383	0.1991	-0.2582
		Dif.	0.6958	0.1693	0.1464
23.948	5.225	Max.	-0.6871	0.4520	-0.1118
		Min.	-1.3372	0.2344	-0.2713
		Dif.	0.6501	0.2177	0.1595
23.948	5.475	Max.	-0.6235	0.5292	-0.1101
		Min.	-1.2148	0.2702	-0.2886
		Dif.	0.5913	0.2589	0.1785
23.948	5.725	Max.	-0.5495	0.5927	-0.1133
		Min.	-1.0761	0.3025	-0.3027
		Dif.	0.5267	0.2902	0.1894
23.948	5.975	Max.	-0.4693	0.6382	-0.1197
		Min.	-0.9224	0.3298	-0.3102
		Dif.	0.4531	0.3084	0.1905
23.948	6.225	Max.	-0.3826	0.6662	-0.1258
		Min.	-0.7599	0.3499	-0.3079
		Dif.	0.3773	0.3163	0.1821
23.948	6.475	Max.	-0.2861	0.6798	-0.1284
		Min.	-0.5979	0.3627	-0.2932
		Dif.	0.3118	0.3171	0.1648
23.948	6.725	Max.	-0.1848	0.6796	-0.1260
		Min.	-0.4357	0.3691	-0.2643
		Dif.	0.2509	0.3105	0.1383
23.948	6.750	Max.	-0.1722	0.6593	-0.1147
		Min.	-0.4168	0.3658	-0.2425
		Dif.	0.2446	0.2935	0.1278
24.198	0.001	Max.	0.0440	0.2375	-0.5739
		Min.	-1.1982	-0.2874	-0.8763
		Dif.	1.2422	0.5249	0.3024
24.198	0.225	Max.	-0.0205	0.2361	-0.5739
		Min.	-1.1448	-0.2880	-0.8763
		Dif.	1.1243	0.5241	0.3024
24.198	0.475	Max.	-0.0923	0.2284	-0.5757
		Min.	-1.0859	-0.2826	-0.8562
		Dif.	0.9935	0.5110	0.2805



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.198	0.725	Max.	-0.1667	0.2141	-0.5530
		Min.	-1.0302	-0.2980	-0.8019
		Dif.	0.8635	0.5121	0.2490
24.198	0.975	Max.	-0.2292	0.1561	-0.5361
		Min.	-0.9764	-0.3239	-0.7833
		Dif.	0.7472	0.4799	0.2471
24.198	1.225	Max.	-0.3108	0.1145	-0.5421
		Min.	-0.9443	-0.3370	-0.7959
		Dif.	0.6336	0.4515	0.2538
24.198	1.475	Max.	-0.3979	0.0626	-0.5199
		Min.	-0.9185	-0.3569	-0.7932
		Dif.	0.5206	0.4195	0.2733
24.198	1.690	Max.	-0.4739	-0.0326	-0.4398
		Min.	-0.9086	-0.4481	-0.7298
		Dif.	0.4347	0.4154	0.2900
24.198	1.990	Max.	-0.5876	-0.0326	-0.4398
		Min.	-0.9376	-0.4481	-0.7298
		Dif.	0.3500	0.4154	0.2900
24.198	2.225	Max.	-0.6755	-0.0917	-0.4172
		Min.	-0.9963	-0.5245	-0.7662
		Dif.	0.3208	0.4328	0.3490
24.198	2.475	Max.	-0.7279	-0.1060	-0.3734
		Min.	-1.1024	-0.5178	-0.7259
		Dif.	0.3745	0.4118	0.3525
24.198	2.725	Max.	-0.7596	-0.1045	-0.3295
		Min.	-1.2245	-0.4802	-0.6640
		Dif.	0.4649	0.3757	0.3345
24.198	2.975	Max.	-0.7879	-0.0918	-0.2887
		Min.	-1.3353	-0.4211	-0.5895
		Dif.	0.5474	0.3293	0.3008
24.198	3.225	Max.	-0.8080	-0.0697	-0.2503
		Min.	-1.4325	-0.3444	-0.5141
		Dif.	0.6245	0.2747	0.2638
24.198	3.475	Max.	-0.8213	-0.0406	-0.2173
		Min.	-1.5088	-0.2530	-0.4390
		Dif.	0.6876	0.2124	0.2216
24.198	3.725	Max.	-0.8260	-0.0055	-0.1917
		Min.	-1.5610	-0.1475	-0.3699
		Dif.	0.7350	0.1420	0.1782
24.198	3.975	Max.	-0.8194	0.0341	-0.1732
		Min.	-1.5868	-0.0313	-0.3104
		Dif.	0.7674	0.0654	0.1372
24.198	4.225	Max.	-0.8139	0.1119	-0.1497
		Min.	-1.5708	0.0575	-0.2757
		Dif.	0.7568	0.0544	0.1260
24.198	4.475	Max.	-0.7901	0.2200	-0.1284
		Min.	-1.5313	0.1110	-0.2560
		Dif.	0.7412	0.1090	0.1276
24.198	4.610	Max.	-0.7752	0.3159	-0.1066
		Min.	-1.5009	0.1679	-0.2460
		Dif.	0.7257	0.1480	0.1394
24.198	4.910	Max.	-0.7237	0.3159	-0.1066
		Min.	-1.4073	0.1679	-0.2460
		Dif.	0.6836	0.1480	0.1394
24.198	4.975	Max.	-0.7115	0.3897	-0.0974
		Min.	-1.3786	0.1871	-0.2568
		Dif.	0.6671	0.2027	0.1594



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.198	5.225	Max.	-0.6591	0.4762	-0.0940
		Min.	-1.2709	0.2270	-0.2727
		Dif.	0.6117	0.2492	0.1787
24.198	5.475	Max.	-0.5963	0.5532	-0.0915
		Min.	-1.1423	0.2691	-0.2987
		Dif.	0.5461	0.2842	0.2072
24.198	5.725	Max.	-0.5234	0.6118	-0.0966
		Min.	-0.9962	0.3070	-0.3224
		Dif.	0.4728	0.3048	0.2258
24.198	5.975	Max.	-0.4398	0.6476	-0.1073
		Min.	-0.8404	0.3370	-0.3380
		Dif.	0.4006	0.3106	0.2307
24.198	6.225	Max.	-0.3502	0.6615	-0.1192
		Min.	-0.6780	0.3560	-0.3409
		Dif.	0.3279	0.3055	0.2217
24.198	6.475	Max.	-0.2486	0.6572	-0.1303
		Min.	-0.5238	0.3633	-0.3247
		Dif.	0.2751	0.2939	0.1944
24.198	6.725	Max.	-0.1506	0.6454	-0.1328
		Min.	-0.3690	0.3618	-0.2869
		Dif.	0.2183	0.2836	0.1541
24.198	6.750	Max.	-0.1435	0.6593	-0.1147
		Min.	-0.3563	0.3658	-0.2425
		Dif.	0.2128	0.2935	0.1278
24.448	0.001	Max.	0.2047	0.2254	-0.5568
		Min.	-0.9886	-0.3040	-0.8453
		Dif.	1.1934	0.5294	0.2885
24.448	0.225	Max.	0.1365	0.2239	-0.5568
		Min.	-0.9380	-0.3046	-0.8453
		Dif.	1.0745	0.5286	0.2885
24.448	0.475	Max.	0.0612	0.2259	-0.5525
		Min.	-0.8822	-0.3022	-0.8224
		Dif.	0.9433	0.5281	0.2699
24.448	0.725	Max.	-0.0132	0.2116	-0.5157
		Min.	-0.8265	-0.3176	-0.7822
		Dif.	0.8132	0.5292	0.2665
24.448	0.975	Max.	-0.0936	0.1744	-0.4988
		Min.	-0.7786	-0.3404	-0.7707
		Dif.	0.6851	0.5149	0.2719
24.448	1.225	Max.	-0.1797	0.1329	-0.5081
		Min.	-0.7420	-0.3535	-0.7799
		Dif.	0.5622	0.4864	0.2718
24.448	1.475	Max.	-0.2693	0.0713	-0.4798
		Min.	-0.7157	-0.3805	-0.7687
		Dif.	0.4464	0.4517	0.2889
24.448	1.690	Max.	-0.3458	-0.0327	-0.3928
		Min.	-0.7068	-0.4894	-0.6966
		Dif.	0.3609	0.4568	0.3038
24.448	1.990	Max.	-0.4698	-0.0327	-0.3910
		Min.	-0.7378	-0.4894	-0.6984
		Dif.	0.2680	0.4568	0.3074
24.448	2.225	Max.	-0.5437	-0.1171	-0.3800
		Min.	-0.8308	-0.5810	-0.7351
		Dif.	0.2871	0.4639	0.3551
24.448	2.475	Max.	-0.5853	-0.1446	-0.3430
		Min.	-0.9713	-0.5761	-0.7014
		Dif.	0.3860	0.4314	0.3584



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.448	2.725	Max.	-0.6271	-0.1544	-0.3037
		Min.	-1.1097	-0.5382	-0.6453
		Dif.	0.4826	0.3838	0.3416
24.448	2.975	Max.	-0.6679	-0.1489	-0.2657
		Min.	-1.2367	-0.4761	-0.5768
		Dif.	0.5688	0.3272	0.3111
24.448	3.225	Max.	-0.7031	-0.1302	-0.2308
		Min.	-1.3477	-0.3939	-0.5027
		Dif.	0.6446	0.2637	0.2719
24.448	3.475	Max.	-0.7315	-0.1003	-0.2002
		Min.	-1.4363	-0.2943	-0.4285
		Dif.	0.7047	0.1940	0.2283
24.448	3.725	Max.	-0.7499	-0.0606	-0.1749
		Min.	-1.4991	-0.1797	-0.3590
		Dif.	0.7492	0.1190	0.1841
24.448	3.975	Max.	-0.7672	-0.0100	-0.1553
		Min.	-1.5212	-0.0562	-0.2983
		Dif.	0.7540	0.0462	0.1430
24.448	4.225	Max.	-0.7654	0.0968	-0.1277
		Min.	-1.5167	0.0236	-0.2636
		Dif.	0.7513	0.0731	0.1358
24.448	4.475	Max.	-0.7499	0.2223	-0.1046
		Min.	-1.4783	0.0824	-0.2403
		Dif.	0.7283	0.1399	0.1357
24.448	4.610	Max.	-0.7357	0.3347	-0.0683
		Min.	-1.4465	0.1236	-0.2183
		Dif.	0.7108	0.2112	0.1500
24.448	4.910	Max.	-0.6978	0.3347	-0.0683
		Min.	-1.3468	0.1236	-0.2183
		Dif.	0.6490	0.2112	0.1500
24.448	4.975	Max.	-0.6848	0.4024	-0.0719
		Min.	-1.3200	0.1699	-0.2408
		Dif.	0.6352	0.2325	0.1689
24.448	5.225	Max.	-0.6352	0.5001	-0.0689
		Min.	-1.2070	0.2211	-0.2601
		Dif.	0.5718	0.2790	0.1913
24.448	5.475	Max.	-0.5728	0.5818	-0.0699
		Min.	-1.0710	0.2702	-0.2869
		Dif.	0.4982	0.3116	0.2170
24.448	5.725	Max.	-0.4986	0.6379	-0.0746
		Min.	-0.9174	0.3135	-0.3180
		Dif.	0.4188	0.3244	0.2433
24.448	5.975	Max.	-0.4145	0.6643	-0.0860
		Min.	-0.7535	0.3465	-0.3415
		Dif.	0.3390	0.3178	0.2555
24.448	6.225	Max.	-0.3167	0.6622	-0.1010
		Min.	-0.5939	0.3665	-0.3508
		Dif.	0.2771	0.2957	0.2499
24.448	6.475	Max.	-0.2121	0.6432	-0.1169
		Min.	-0.4416	0.3699	-0.3389
		Dif.	0.2295	0.2733	0.2220
24.448	6.725	Max.	-0.1142	0.6194	-0.1178
		Min.	-0.2899	0.3589	-0.3106
		Dif.	0.1756	0.2605	0.1928
24.448	6.750	Max.	-0.1072	0.6089	-0.0643
		Min.	-0.2746	0.3523	-0.2652
		Dif.	0.1674	0.2566	0.2009



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.698	0.001	Max.	0.3597	0.2113	-0.4838
		Min.	-0.7949	-0.3317	-0.7586
		Dif.	1.1547	0.5430	0.2748
24.698	0.225	Max.	0.2853	0.2099	-0.4838
		Min.	-0.7475	-0.3323	-0.7586
		Dif.	1.0327	0.5422	0.2748
24.698	0.475	Max.	0.2024	0.2076	-0.4681
		Min.	-0.6947	-0.3340	-0.7364
		Dif.	0.8971	0.5416	0.2682
24.698	0.725	Max.	0.1182	0.1960	-0.4487
		Min.	-0.6433	-0.3425	-0.7129
		Dif.	0.7616	0.5385	0.2642
24.698	0.975	Max.	0.0317	0.1697	-0.4291
		Min.	-0.5961	-0.3568	-0.7030
		Dif.	0.6278	0.5265	0.2739
24.698	1.225	Max.	-0.0577	0.1286	-0.4118
		Min.	-0.5577	-0.3770	-0.6977
		Dif.	0.5000	0.5056	0.2859
24.698	1.475	Max.	-0.1531	0.0689	-0.3833
		Min.	-0.5319	-0.4083	-0.6829
		Dif.	0.3787	0.4772	0.2996
24.698	1.690	Max.	-0.2362	-0.0270	-0.2895
		Min.	-0.5188	-0.5370	-0.5996
		Dif.	0.2826	0.5099	0.3101
24.698	1.990	Max.	-0.3624	-0.0270	-0.2895
		Min.	-0.5601	-0.5370	-0.5996
		Dif.	0.1977	0.5099	0.3101
24.698	2.225	Max.	-0.4098	-0.1343	-0.2989
		Min.	-0.6972	-0.6229	-0.6521
		Dif.	0.2874	0.4886	0.3532
24.698	2.475	Max.	-0.4529	-0.1759	-0.2764
		Min.	-0.8545	-0.6189	-0.6248
		Dif.	0.4016	0.4429	0.3484
24.698	2.725	Max.	-0.5043	-0.1977	-0.2486
		Min.	-1.0058	-0.5835	-0.5752
		Dif.	0.5015	0.3857	0.3266
24.698	2.975	Max.	-0.5563	-0.2000	-0.2198
		Min.	-1.1469	-0.5212	-0.5146
		Dif.	0.5905	0.3212	0.2947
24.698	3.225	Max.	-0.6055	-0.1851	-0.1920
		Min.	-1.2700	-0.4359	-0.4490
		Dif.	0.6645	0.2508	0.2570
24.698	3.475	Max.	-0.6479	-0.1550	-0.1666
		Min.	-1.3700	-0.3312	-0.3831
		Dif.	0.7222	0.1762	0.2165
24.698	3.725	Max.	-0.6886	-0.1100	-0.1444
		Min.	-1.4335	-0.2117	-0.3207
		Dif.	0.7449	0.1017	0.1763
24.698	3.975	Max.	-0.7125	-0.0304	-0.1238
		Min.	-1.4692	-0.1033	-0.2674
		Dif.	0.7567	0.0729	0.1436
24.698	4.225	Max.	-0.7221	0.0868	-0.0969
		Min.	-1.4690	-0.0157	-0.2358
		Dif.	0.7469	0.1025	0.1389
24.698	4.475	Max.	-0.7160	0.2230	-0.0787
		Min.	-1.4321	0.0508	-0.2170
		Dif.	0.7161	0.1722	0.1383



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.698	4.610	Max.	-0.7092	0.3347	-0.0683
		Min.	-1.4013	0.1236	-0.2183
		Dif.	0.6921	0.2112	0.1500
24.698	4.910	Max.	-0.6714	0.3347	-0.0683
		Min.	-1.3017	0.1236	-0.2183
		Dif.	0.6303	0.2112	0.1500
24.698	4.975	Max.	-0.6616	0.4170	-0.0467
		Min.	-1.2705	0.1514	-0.2173
		Dif.	0.6089	0.2656	0.1706
24.698	5.225	Max.	-0.6155	0.5227	-0.0351
		Min.	-1.1512	0.2112	-0.2324
		Dif.	0.5357	0.3116	0.1973
24.698	5.475	Max.	-0.5537	0.6079	-0.0328
		Min.	-1.0073	0.2703	-0.2583
		Dif.	0.4536	0.3376	0.2256
24.698	5.725	Max.	-0.4781	0.6612	-0.0358
		Min.	-0.8454	0.3208	-0.2882
		Dif.	0.3673	0.3404	0.2524
24.698	5.975	Max.	-0.3914	0.6804	-0.0425
		Min.	-0.6741	0.3560	-0.3160
		Dif.	0.2827	0.3243	0.2735
24.698	6.225	Max.	-0.2915	0.6640	-0.0522
		Min.	-0.5092	0.3747	-0.3332
		Dif.	0.2178	0.2893	0.2810
24.698	6.475	Max.	-0.1842	0.6350	-0.0608
		Min.	-0.3575	0.3712	-0.3247
		Dif.	0.1732	0.2638	0.2639
24.698	6.725	Max.	-0.0840	0.6273	-0.0413
		Min.	-0.2083	0.3464	-0.2875
		Dif.	0.1243	0.2810	0.2462
24.698	6.750	Max.	-0.0724	0.6039	0.0455
		Min.	-0.1848	0.3076	-0.2300
		Dif.	0.1125	0.2962	0.2755
24.890	0.225	Max.	0.3898	0.1830	-0.3223
		Min.	-0.6112	-0.3720	-0.5359
		Dif.	1.0010	0.5550	0.2135
24.890	0.475	Max.	0.3005	0.1794	-0.3080
		Min.	-0.5626	-0.3740	-0.5240
		Dif.	0.8631	0.5534	0.2160
24.890	0.725	Max.	0.2117	0.1666	-0.2882
		Min.	-0.5138	-0.3813	-0.5123
		Dif.	0.7256	0.5480	0.2241
24.890	0.975	Max.	0.1215	0.1395	-0.2641
		Min.	-0.4683	-0.3970	-0.5036
		Dif.	0.5898	0.5365	0.2395
24.890	1.225	Max.	0.0273	0.0924	-0.2379
		Min.	-0.4302	-0.4247	-0.4964
		Dif.	0.4575	0.5171	0.2584
24.890	1.475	Max.	-0.0742	0.0282	-0.2090
		Min.	-0.4050	-0.4831	-0.4891
		Dif.	0.3308	0.5113	0.2801
24.890	2.225	Max.	-0.3118	-0.1156	-0.1662
		Min.	-0.6109	-0.6210	-0.4552
		Dif.	0.2991	0.5054	0.2890
24.890	2.475	Max.	-0.3588	-0.1843	-0.1544
		Min.	-0.7751	-0.6284	-0.4254
		Dif.	0.4163	0.4441	0.2709



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.890	2.725	Max.	-0.4169	-0.2229	-0.1411
		Min.	-0.9352	-0.6013	-0.3893
		Dif.	0.5183	0.3784	0.2482
24.890	2.975	Max.	-0.4775	-0.2369	-0.1270
		Min.	-1.0850	-0.5432	-0.3486
		Dif.	0.6075	0.3064	0.2216
24.890	3.225	Max.	-0.5365	-0.2292	-0.1127
		Min.	-1.2165	-0.4587	-0.3055
		Dif.	0.6800	0.2295	0.1928
24.890	3.475	Max.	-0.5946	-0.2017	-0.0988
		Min.	-1.3184	-0.3528	-0.2625
		Dif.	0.7238	0.1511	0.1637
24.890	3.725	Max.	-0.6407	-0.1387	-0.0859
		Min.	-1.3933	-0.2479	-0.2219
		Dif.	0.7526	0.1093	0.1360
24.890	3.975	Max.	-0.6743	-0.0378	-0.0661
		Min.	-1.4341	-0.1516	-0.1941
		Dif.	0.7598	0.1137	0.1280
24.890	4.225	Max.	-0.6924	0.0866	-0.0457
		Min.	-1.4376	-0.0518	-0.1748
		Dif.	0.7451	0.1383	0.1291
24.890	4.475	Max.	-0.6921	0.2497	-0.0261
		Min.	-1.4010	0.0309	-0.1611
		Dif.	0.7090	0.2188	0.1350
24.890	4.975	Max.	-0.6480	0.3812	-0.0023
		Min.	-1.2367	0.1051	-0.1591
		Dif.	0.5887	0.2761	0.1568
24.890	5.225	Max.	-0.6040	0.5096	0.0157
		Min.	-1.1147	0.1864	-0.1728
		Dif.	0.5108	0.3232	0.1885
24.890	5.475	Max.	-0.5421	0.6003	0.0308
		Min.	-0.9648	0.2544	-0.1885
		Dif.	0.4227	0.3460	0.2194
24.890	5.725	Max.	-0.4651	0.6507	0.0459
		Min.	-0.7964	0.3093	-0.2074
		Dif.	0.3313	0.3414	0.2534
24.890	5.975	Max.	-0.3761	0.6575	0.0652
		Min.	-0.6188	0.3504	-0.2301
		Dif.	0.2427	0.3071	0.2953
24.890	6.225	Max.	-0.2774	0.6255	0.0981
		Min.	-0.4440	0.3667	-0.2628
		Dif.	0.1666	0.2588	0.3609
24.890	6.475	Max.	-0.1664	0.6136	0.1642
		Min.	-0.2946	0.3143	-0.3264
		Dif.	0.1282	0.2993	0.4906
24.890	6.725	Max.	-0.0665	0.6136	0.1653
		Min.	-0.1627	0.3143	-0.3275
		Dif.	0.0961	0.2993	0.4929
25.190	0.225	Max.	0.5028	0.1833	-0.3223
		Min.	-0.4668	-0.3722	-0.5359
		Dif.	0.9695	0.5555	0.2135
25.190	0.475	Max.	0.4080	0.1797	-0.3080
		Min.	-0.4206	-0.3743	-0.5240
		Dif.	0.8286	0.5540	0.2160
25.190	0.725	Max.	0.3127	0.1670	-0.2882
		Min.	-0.3748	-0.3817	-0.5123
		Dif.	0.6875	0.5486	0.2241



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.190	0.975	Max.	0.2155	0.1399	-0.2641
		Min.	-0.3321	-0.3975	-0.5036
		Dif.	0.5475	0.5374	0.2395
25.190	1.225	Max.	0.1140	0.0931	-0.2379
		Min.	-0.2967	-0.4254	-0.4964
		Dif.	0.4107	0.5185	0.2584
25.190	1.475	Max.	0.0049	0.0295	-0.2090
		Min.	-0.2747	-0.4844	-0.4891
		Dif.	0.2796	0.5138	0.2801
25.190	2.225	Max.	-0.2076	-0.1158	-0.1662
		Min.	-0.5293	-0.6208	-0.4552
		Dif.	0.3217	0.5049	0.2890
25.190	2.475	Max.	-0.2586	-0.1843	-0.1544
		Min.	-0.7022	-0.6284	-0.4254
		Dif.	0.4436	0.4441	0.2709
25.190	2.725	Max.	-0.3217	-0.2229	-0.1411
		Min.	-0.8719	-0.6013	-0.3893
		Dif.	0.5501	0.3784	0.2482
25.190	2.975	Max.	-0.3908	-0.2369	-0.1270
		Min.	-1.0296	-0.5432	-0.3486
		Dif.	0.6388	0.3064	0.2216
25.190	3.225	Max.	-0.4596	-0.2292	-0.1127
		Min.	-1.1685	-0.4587	-0.3055
		Dif.	0.7089	0.2295	0.1928
25.190	3.475	Max.	-0.5281	-0.2017	-0.0988
		Min.	-1.2771	-0.3528	-0.2625
		Dif.	0.7490	0.1511	0.1637
25.190	3.725	Max.	-0.5851	-0.1387	-0.0859
		Min.	-1.3570	-0.2479	-0.2219
		Dif.	0.7719	0.1093	0.1360
25.190	3.975	Max.	-0.6293	-0.0378	-0.0661
		Min.	-1.4013	-0.1516	-0.1941
		Dif.	0.7720	0.1137	0.1280
25.190	4.225	Max.	-0.6574	0.0866	-0.0457
		Min.	-1.4067	-0.0518	-0.1748
		Dif.	0.7493	0.1383	0.1291
25.190	4.475	Max.	-0.6665	0.2497	-0.0261
		Min.	-1.3706	0.0309	-0.1611
		Dif.	0.7041	0.2188	0.1350
25.190	4.975	Max.	-0.6313	0.3812	-0.0023
		Min.	-1.2051	0.1051	-0.1591
		Dif.	0.5739	0.2761	0.1568
25.190	5.225	Max.	-0.5915	0.5097	0.0157
		Min.	-1.0802	0.1863	-0.1728
		Dif.	0.4886	0.3234	0.1885
25.190	5.475	Max.	-0.5289	0.5984	0.0308
		Min.	-0.9309	0.2563	-0.1885
		Dif.	0.4020	0.3421	0.2194
25.190	5.725	Max.	-0.4482	0.6484	0.0459
		Min.	-0.7649	0.3117	-0.2074
		Dif.	0.3167	0.3367	0.2534
25.190	5.975	Max.	-0.3541	0.6563	0.0652
		Min.	-0.5915	0.3515	-0.2301
		Dif.	0.2374	0.3048	0.2953
25.190	6.225	Max.	-0.2491	0.6255	0.0981
		Min.	-0.4233	0.3667	-0.2628
		Dif.	0.1742	0.2588	0.3609



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.190	6.475	Max.	-0.1368	0.6136	0.1642
		Min.	-0.2762	0.3143	-0.3264
		Dif.	0.1394	0.2993	0.4906
25.190	6.725	Max.	-0.0450	0.6136	0.1642
		Min.	-0.1361	0.3143	-0.3264
		Dif.	0.0911	0.2993	0.4906
25.198	0.001	Max.	0.5856	0.1861	-0.2505
		Min.	-0.5136	-0.3810	-0.4261
		Dif.	1.0992	0.5671	0.1756
25.198	0.225	Max.	0.5002	0.1846	-0.2505
		Min.	-0.4719	-0.3816	-0.4261
		Dif.	0.9720	0.5663	0.1756
25.198	0.475	Max.	0.4050	0.1825	-0.2345
		Min.	-0.4255	-0.3832	-0.4172
		Dif.	0.8305	0.5657	0.1828
25.198	0.725	Max.	0.3094	0.1735	-0.2115
		Min.	-0.3797	-0.3892	-0.4078
		Dif.	0.6891	0.5627	0.1964
25.198	0.975	Max.	0.2117	0.1513	-0.1853
		Min.	-0.3371	-0.4027	-0.3990
		Dif.	0.5489	0.5540	0.2137
25.198	1.225	Max.	0.1099	0.1104	-0.1591
		Min.	-0.3019	-0.4267	-0.3929
		Dif.	0.4117	0.5370	0.2338
25.198	1.475	Max.	0.0009	0.0479	-0.1403
		Min.	-0.2795	-0.4638	-0.3972
		Dif.	0.2804	0.5117	0.2569
25.198	1.690	Max.	-0.0972	-0.0123	-0.1715
		Min.	-0.2706	-0.5844	-0.4748
		Dif.	0.1734	0.5721	0.3033
25.198	1.990	Max.	-0.1694	-0.0159	-0.1715
		Min.	-0.3765	-0.5807	-0.4748
		Dif.	0.2071	0.5648	0.3033
25.198	2.225	Max.	-0.2108	-0.1530	-0.1096
		Min.	-0.5348	-0.6700	-0.3575
		Dif.	0.3240	0.5170	0.2479
25.198	2.475	Max.	-0.2620	-0.2167	-0.0978
		Min.	-0.7071	-0.6735	-0.3248
		Dif.	0.4451	0.4567	0.2270
25.198	2.725	Max.	-0.3246	-0.2549	-0.0901
		Min.	-0.8766	-0.6419	-0.2959
		Dif.	0.5520	0.3870	0.2058
25.198	2.975	Max.	-0.3930	-0.2690	-0.0824
		Min.	-1.0342	-0.5791	-0.2649
		Dif.	0.6412	0.3100	0.1825
25.198	3.225	Max.	-0.4609	-0.2610	-0.0673
		Min.	-1.1730	-0.4896	-0.2375
		Dif.	0.7122	0.2286	0.1702
25.198	3.475	Max.	-0.5296	-0.2308	-0.0530
		Min.	-1.2806	-0.3803	-0.2114
		Dif.	0.7511	0.1495	0.1584
25.198	3.725	Max.	-0.5862	-0.1525	-0.0404
		Min.	-1.3601	-0.2840	-0.1860
		Dif.	0.7739	0.1315	0.1456
25.198	3.975	Max.	-0.6302	-0.0480	-0.0240
		Min.	-1.4039	-0.1838	-0.1686
		Dif.	0.7737	0.1358	0.1447



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.198	4.225	Max.	-0.6579	0.0788	-0.0102
		Min.	-1.4085	-0.0793	-0.1535
		Dif.	0.7505	0.1582	0.1433
25.198	4.475	Max.	-0.6664	0.2380	0.0010
		Min.	-1.3712	0.0040	-0.1413
		Dif.	0.7049	0.2341	0.1423
25.198	4.610	Max.	-0.6632	0.3422	-0.0078
		Min.	-1.3332	0.0806	-0.1511
		Dif.	0.6700	0.2616	0.1433
25.198	4.910	Max.	-0.6374	0.3422	-0.0078
		Min.	-1.2322	0.0806	-0.1511
		Dif.	0.5947	0.2616	0.1433
25.198	4.975	Max.	-0.6314	0.4201	0.0211
		Min.	-1.2049	0.1120	-0.1366
		Dif.	0.5734	0.3081	0.1578
25.198	5.225	Max.	-0.5921	0.5442	0.0389
		Min.	-1.0818	0.1889	-0.1427
		Dif.	0.4897	0.3553	0.1816
25.198	5.475	Max.	-0.5295	0.6338	0.0566
		Min.	-0.9341	0.2617	-0.1504
		Dif.	0.4046	0.3721	0.2070
25.198	5.725	Max.	-0.4492	0.6845	0.0758
		Min.	-0.7693	0.3197	-0.1587
		Dif.	0.3201	0.3648	0.2345
25.198	5.975	Max.	-0.3558	0.6925	0.0975
		Min.	-0.5971	0.3618	-0.1675
		Dif.	0.2413	0.3306	0.2650
25.198	6.225	Max.	-0.2531	0.6585	0.1219
		Min.	-0.4295	0.3808	-0.1775
		Dif.	0.1764	0.2776	0.2994
25.198	6.475	Max.	-0.1474	0.6289	0.1404
		Min.	-0.2780	0.3461	-0.1936
		Dif.	0.1306	0.2829	0.3340
25.198	6.725	Max.	-0.0569	0.6211	0.1167
		Min.	-0.1321	0.3108	-0.2056
		Dif.	0.0752	0.3103	0.3224
25.198	6.750	Max.	-0.0536	0.6039	0.0452
		Min.	-0.1117	0.3076	-0.2297
		Dif.	0.0581	0.2962	0.2749
25.448	0.001	Max.	0.6515	0.1811	-0.1200
		Min.	-0.4419	-0.4025	-0.2931
		Dif.	1.0933	0.5836	0.1731
25.448	0.225	Max.	0.5613	0.1797	-0.1200
		Min.	-0.4014	-0.4032	-0.2931
		Dif.	0.9627	0.5829	0.1731
25.448	0.475	Max.	0.4606	0.1760	-0.1041
		Min.	-0.3568	-0.4064	-0.2818
		Dif.	0.8175	0.5824	0.1777
25.448	0.725	Max.	0.3588	0.1662	-0.0823
		Min.	-0.3137	-0.4143	-0.2678
		Dif.	0.6725	0.5806	0.1855
25.448	0.975	Max.	0.2546	0.1455	-0.0575
		Min.	-0.2741	-0.4284	-0.2521
		Dif.	0.5286	0.5739	0.1946
25.448	1.225	Max.	0.1465	0.1099	-0.0339
		Min.	-0.2415	-0.4486	-0.2371
		Dif.	0.3879	0.5585	0.2031



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.448	1.475	Max.	0.0337	0.0538	-0.0207
		Min.	-0.2207	-0.4755	-0.2304
		Dif.	0.2544	0.5294	0.2098
25.448	1.690	Max.	-0.0438	-0.0384	-0.0360
		Min.	-0.2335	-0.5909	-0.2724
		Dif.	0.1897	0.5525	0.2365
25.448	1.990	Max.	-0.1052	-0.0384	-0.0360
		Min.	-0.3603	-0.5909	-0.2724
		Dif.	0.2551	0.5525	0.2365
25.448	2.225	Max.	-0.1482	-0.1682	0.0018
		Min.	-0.5210	-0.6936	-0.2048
		Dif.	0.3728	0.5254	0.2066
25.448	2.475	Max.	-0.2056	-0.2299	0.0118
		Min.	-0.6930	-0.6969	-0.1975
		Dif.	0.4875	0.4671	0.2093
25.448	2.725	Max.	-0.2740	-0.2701	0.0176
		Min.	-0.8621	-0.6630	-0.1920
		Dif.	0.5881	0.3930	0.2095
25.448	2.975	Max.	-0.3476	-0.2880	0.0225
		Min.	-1.0206	-0.5973	-0.1836
		Dif.	0.6730	0.3094	0.2061
25.448	3.225	Max.	-0.4190	-0.2834	0.0266
		Min.	-1.1626	-0.5046	-0.1716
		Dif.	0.7436	0.2213	0.1982
25.448	3.475	Max.	-0.4927	-0.2509	0.0304
		Min.	-1.2719	-0.3960	-0.1577
		Dif.	0.7791	0.1450	0.1881
25.448	3.725	Max.	-0.5539	-0.1603	0.0366
		Min.	-1.3532	-0.3088	-0.1461
		Dif.	0.7993	0.1485	0.1827
25.448	3.975	Max.	-0.6010	-0.0546	0.0421
		Min.	-1.3996	-0.2069	-0.1341
		Dif.	0.7986	0.1523	0.1762
25.448	4.225	Max.	-0.6383	0.0745	0.0487
		Min.	-1.4003	-0.1075	-0.1215
		Dif.	0.7619	0.1820	0.1702
25.448	4.475	Max.	-0.6530	0.2229	0.0587
		Min.	-1.3654	-0.0296	-0.1080
		Dif.	0.7124	0.2524	0.1667
25.448	4.610	Max.	-0.6545	0.3593	0.0582
		Min.	-1.3376	0.0530	-0.1042
		Dif.	0.6831	0.3063	0.1624
25.448	4.910	Max.	-0.6320	0.3593	0.0582
		Min.	-1.2364	0.0530	-0.1042
		Dif.	0.6044	0.3063	0.1624
25.448	4.975	Max.	-0.6209	0.4496	0.0769
		Min.	-1.2043	0.1098	-0.0973
		Dif.	0.5834	0.3398	0.1742
25.448	5.225	Max.	-0.5773	0.5539	0.0863
		Min.	-1.0838	0.1851	-0.1005
		Dif.	0.5064	0.3688	0.1868
25.448	5.475	Max.	-0.5141	0.6358	0.1044
		Min.	-0.9403	0.2548	-0.1029
		Dif.	0.4262	0.3811	0.2073
25.448	5.725	Max.	-0.4336	0.6831	0.1253
		Min.	-0.7808	0.3134	-0.1016
		Dif.	0.3472	0.3697	0.2269



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.448	5.975	Max.	-0.3349	0.6914	0.1444
		Min.	-0.6202	0.3565	-0.0982
		Dif.	0.2853	0.3350	0.2426
25.448	6.225	Max.	-0.2240	0.6656	0.1539
		Min.	-0.4663	0.3784	-0.0935
		Dif.	0.2423	0.2872	0.2474
25.448	6.475	Max.	-0.1197	0.6374	0.1465
		Min.	-0.3136	0.3627	-0.0943
		Dif.	0.1939	0.2747	0.2408
25.448	6.725	Max.	-0.0284	0.6336	0.1270
		Min.	-0.1624	0.3235	-0.1126
		Dif.	0.1340	0.3101	0.2396
25.448	6.750	Max.	-0.0239	0.6384	0.1130
		Min.	-0.1491	0.3290	-0.1376
		Dif.	0.1252	0.3095	0.2506
25.698	0.001	Max.	0.6949	0.1731	-0.0101
		Min.	-0.4001	-0.4245	-0.2316
		Dif.	1.0950	0.5975	0.2215
25.698	0.225	Max.	0.6000	0.1717	-0.0101
		Min.	-0.3616	-0.4252	-0.2316
		Dif.	0.9615	0.5969	0.2215
25.698	0.475	Max.	0.4938	0.1662	0.0057
		Min.	-0.3194	-0.4306	-0.2191
		Dif.	0.8132	0.5968	0.2248
25.698	0.725	Max.	0.3857	0.1535	0.0270
		Min.	-0.2795	-0.4420	-0.2017
		Dif.	0.6653	0.5955	0.2287
25.698	0.975	Max.	0.2746	0.1307	0.0524
		Min.	-0.2442	-0.4585	-0.1799
		Dif.	0.5188	0.5892	0.2322
25.698	1.225	Max.	0.1597	0.0951	0.0793
		Min.	-0.2166	-0.4778	-0.1547
		Dif.	0.3763	0.5729	0.2340
25.698	1.475	Max.	0.0554	0.0418	0.1005
		Min.	-0.2148	-0.4985	-0.1320
		Dif.	0.2702	0.5403	0.2324
25.698	1.690	Max.	-0.0115	-0.0460	0.0784
		Min.	-0.2462	-0.5926	-0.1413
		Dif.	0.2348	0.5466	0.2197
25.698	1.990	Max.	-0.0690	-0.0460	0.0784
		Min.	-0.3798	-0.5926	-0.1413
		Dif.	0.3108	0.5466	0.2197
25.698	2.225	Max.	-0.1104	-0.1647	0.1068
		Min.	-0.5387	-0.6914	-0.1218
		Dif.	0.4283	0.5267	0.2287
25.698	2.475	Max.	-0.1666	-0.2269	0.1007
		Min.	-0.7100	-0.6978	-0.1279
		Dif.	0.5434	0.4710	0.2287
25.698	2.725	Max.	-0.2347	-0.2705	0.0939
		Min.	-0.8787	-0.6654	-0.1326
		Dif.	0.6440	0.3950	0.2265
25.698	2.975	Max.	-0.3097	-0.2930	0.0892
		Min.	-1.0363	-0.5997	-0.1334
		Dif.	0.7266	0.3067	0.2225
25.698	3.225	Max.	-0.3862	-0.2926	0.0869
		Min.	-1.1747	-0.5058	-0.1313
		Dif.	0.7885	0.2132	0.2182



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.698	3.475	Max.	-0.4590	-0.2549	0.0854
		Min.	-1.2873	-0.4040	-0.1264
		Dif.	0.8283	0.1491	0.2118
25.698	3.725	Max.	-0.5230	-0.1628	0.0842
		Min.	-1.3683	-0.3192	-0.1196
		Dif.	0.8453	0.1563	0.2038
25.698	3.975	Max.	-0.5739	-0.0586	0.0836
		Min.	-1.4136	-0.2175	-0.1111
		Dif.	0.8398	0.1589	0.1947
25.698	4.225	Max.	-0.6196	0.0759	0.0847
		Min.	-1.4096	-0.1276	-0.1013
		Dif.	0.7900	0.2035	0.1860
25.698	4.475	Max.	-0.6367	0.2223	0.0879
		Min.	-1.3778	-0.0511	-0.0914
		Dif.	0.7411	0.2734	0.1794
25.698	4.610	Max.	-0.6402	0.3662	0.0914
		Min.	-1.3507	0.0295	-0.0844
		Dif.	0.7106	0.3367	0.1758
25.698	4.910	Max.	-0.6223	0.3662	0.0914
		Min.	-1.2500	0.0295	-0.0844
		Dif.	0.6277	0.3367	0.1758
25.698	4.975	Max.	-0.6105	0.4562	0.1011
		Min.	-1.2178	0.0991	-0.0813
		Dif.	0.6073	0.3571	0.1824
25.698	5.225	Max.	-0.5669	0.5528	0.1148
		Min.	-1.0987	0.1758	-0.0796
		Dif.	0.5318	0.3770	0.1944
25.698	5.475	Max.	-0.5038	0.6263	0.1324
		Min.	-0.9595	0.2451	-0.0772
		Dif.	0.4556	0.3812	0.2096
25.698	5.725	Max.	-0.4241	0.6715	0.1501
		Min.	-0.8058	0.3033	-0.0720
		Dif.	0.3817	0.3682	0.2221
25.698	5.975	Max.	-0.3164	0.6846	0.1633
		Min.	-0.6602	0.3476	-0.0657
		Dif.	0.3438	0.3370	0.2290
25.698	6.225	Max.	-0.2072	0.6722	0.1661
		Min.	-0.5077	0.3737	-0.0615
		Dif.	0.3005	0.2985	0.2277
25.698	6.475	Max.	-0.1024	0.6530	0.1568
		Min.	-0.3517	0.3774	-0.0668
		Dif.	0.2492	0.2755	0.2236
25.698	6.725	Max.	-0.0047	0.6522	0.1394
		Min.	-0.1937	0.3512	-0.0928
		Dif.	0.1890	0.3010	0.2322
25.698	6.750	Max.	0.0068	0.6384	0.1130
		Min.	-0.1743	0.3290	-0.1376
		Dif.	0.1811	0.3095	0.2506
25.948	0.001	Max.	0.7235	0.1640	0.0501
		Min.	-0.3762	-0.4443	-0.1952
		Dif.	1.0997	0.6083	0.2453
25.948	0.225	Max.	0.6244	0.1627	0.0501
		Min.	-0.3399	-0.4451	-0.1952
		Dif.	0.9643	0.6078	0.2453
25.948	0.475	Max.	0.5132	0.1547	0.0644
		Min.	-0.3007	-0.4535	-0.1826
		Dif.	0.8139	0.6082	0.2470



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.948	0.725	Max.	0.3992	0.1373	0.0850
		Min.	-0.2648	-0.4697	-0.1634
		Dif.	0.6640	0.6070	0.2484
25.948	0.975	Max.	0.2811	0.1088	0.1114
		Min.	-0.2352	-0.4910	-0.1374
		Dif.	0.5162	0.5998	0.2488
25.948	1.225	Max.	0.1588	0.0679	0.1427
		Min.	-0.2158	-0.5131	-0.1046
		Dif.	0.3746	0.5810	0.2473
25.948	1.475	Max.	0.0693	0.0090	0.1737
		Min.	-0.2462	-0.5236	-0.0700
		Dif.	0.3155	0.5326	0.2436
25.948	1.690	Max.	0.0017	-0.0402	0.1701
		Min.	-0.2920	-0.5862	-0.0643
		Dif.	0.2936	0.5461	0.2344
25.948	1.990	Max.	-0.0532	-0.0402	0.1701
		Min.	-0.4246	-0.5862	-0.0643
		Dif.	0.3715	0.5461	0.2344
25.948	2.225	Max.	-0.0889	-0.1478	0.1691
		Min.	-0.5770	-0.6727	-0.0722
		Dif.	0.4881	0.5249	0.2413
25.948	2.475	Max.	-0.1410	-0.2145	0.1506
		Min.	-0.7436	-0.6849	-0.0883
		Dif.	0.6026	0.4703	0.2388
25.948	2.725	Max.	-0.2067	-0.2637	0.1365
		Min.	-0.9093	-0.6572	-0.1008
		Dif.	0.7026	0.3935	0.2372
25.948	2.975	Max.	-0.2808	-0.2915	0.1268
		Min.	-1.0646	-0.5937	-0.1078
		Dif.	0.7839	0.3023	0.2346
25.948	3.225	Max.	-0.3576	-0.2956	0.1196
		Min.	-1.2013	-0.5005	-0.1101
		Dif.	0.8437	0.2050	0.2297
25.948	3.475	Max.	-0.4316	-0.2537	0.1139
		Min.	-1.3121	-0.4065	-0.1088
		Dif.	0.8805	0.1529	0.2226
25.948	3.725	Max.	-0.4978	-0.1628	0.1091
		Min.	-1.3913	-0.3230	-0.1047
		Dif.	0.8935	0.1603	0.2138
25.948	3.975	Max.	-0.5515	-0.0605	0.1051
		Min.	-1.4348	-0.2219	-0.0988
		Dif.	0.8833	0.1614	0.2039
25.948	4.225	Max.	-0.6024	0.0831	0.1020
		Min.	-1.4273	-0.1428	-0.0918
		Dif.	0.8249	0.2259	0.1938
25.948	4.475	Max.	-0.6227	0.2311	0.0989
		Min.	-1.3940	-0.0652	-0.0857
		Dif.	0.7713	0.2963	0.1846
25.948	4.610	Max.	-0.6281	0.3662	0.0914
		Min.	-1.3645	0.0295	-0.0844
		Dif.	0.7363	0.3367	0.1758
25.948	4.910	Max.	-0.6097	0.3662	0.0918
		Min.	-1.2642	0.0295	-0.0847
		Dif.	0.6545	0.3367	0.1765
25.948	4.975	Max.	-0.6001	0.4511	0.1085
		Min.	-1.2348	0.0858	-0.0765
		Dif.	0.6347	0.3653	0.1850



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.948	5.225	Max.	-0.5583	0.5452	0.1259
		Min.	-1.1196	0.1629	-0.0704
		Dif.	0.5613	0.3823	0.1963
25.948	5.475	Max.	-0.4966	0.6155	0.1432
		Min.	-0.9848	0.2341	-0.0650
		Dif.	0.4882	0.3814	0.2082
25.948	5.725	Max.	-0.4089	0.6617	0.1580
		Min.	-0.8449	0.2931	-0.0590
		Dif.	0.4361	0.3686	0.2170
25.948	5.975	Max.	-0.3027	0.6813	0.1677
		Min.	-0.7023	0.3392	-0.0537
		Dif.	0.3997	0.3421	0.2214
25.948	6.225	Max.	-0.1943	0.6796	0.1697
		Min.	-0.5503	0.3692	-0.0521
		Dif.	0.3560	0.3104	0.2218
25.948	6.475	Max.	-0.0885	0.6669	0.1653
		Min.	-0.3926	0.3800	-0.0579
		Dif.	0.3041	0.2869	0.2232
25.948	6.725	Max.	0.0121	0.6554	0.1583
		Min.	-0.2331	0.3669	-0.0753
		Dif.	0.2453	0.2885	0.2336
25.948	6.750	Max.	0.0217	0.6507	0.1403
		Min.	-0.2172	0.3547	-0.1000
		Dif.	0.2389	0.2960	0.2402
26.198	0.001	Max.	0.7436	0.1565	0.0732
		Min.	-0.3612	-0.4587	-0.1799
		Dif.	1.1049	0.6152	0.2531
26.198	0.225	Max.	0.6415	0.1552	0.0732
		Min.	-0.3269	-0.4595	-0.1799
		Dif.	0.9684	0.6147	0.2531
26.198	0.475	Max.	0.5263	0.1440	0.0858
		Min.	-0.2906	-0.4719	-0.1682
		Dif.	0.8169	0.6159	0.2539
26.198	0.725	Max.	0.4069	0.1214	0.1057
		Min.	-0.2592	-0.4936	-0.1487
		Dif.	0.6661	0.6150	0.2544
26.198	0.975	Max.	0.2820	0.0861	0.1321
		Min.	-0.2364	-0.5204	-0.1216
		Dif.	0.5184	0.6065	0.2537
26.198	1.225	Max.	0.1734	0.0371	0.1645
		Min.	-0.2482	-0.5479	-0.0868
		Dif.	0.4216	0.5850	0.2513
26.198	1.475	Max.	0.0743	-0.0288	0.2001
		Min.	-0.2912	-0.5594	-0.0492
		Dif.	0.3656	0.5306	0.2493
26.198	1.690	Max.	-0.0023	-0.0039	0.2243
		Min.	-0.3596	-0.5651	-0.0171
		Dif.	0.3573	0.5612	0.2414
26.198	1.990	Max.	-0.0482	-0.0039	0.2250
		Min.	-0.4840	-0.5651	-0.0178
		Dif.	0.4358	0.5612	0.2427
26.198	2.225	Max.	-0.0751	-0.1242	0.1928
		Min.	-0.6250	-0.6464	-0.0526
		Dif.	0.5499	0.5222	0.2454
26.198	2.475	Max.	-0.1218	-0.1998	0.1690
		Min.	-0.7849	-0.6674	-0.0733
		Dif.	0.6631	0.4676	0.2423



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
26.198	2.725	Max.	-0.1841	-0.2550	0.1523
		Min.	-0.9461	-0.6454	-0.0887
		Dif.	0.7619	0.3904	0.2410
26.198	2.975	Max.	-0.2565	-0.2877	0.1403
		Min.	-1.0982	-0.5850	-0.0978
		Dif.	0.8417	0.2972	0.2382
26.198	3.225	Max.	-0.3329	-0.2958	0.1314
		Min.	-1.2322	-0.4934	-0.1018
		Dif.	0.8992	0.1976	0.2332
26.198	3.475	Max.	-0.4077	-0.2502	0.1243
		Min.	-1.3406	-0.4071	-0.1018
		Dif.	0.9329	0.1569	0.2261
26.198	3.725	Max.	-0.4755	-0.1615	0.1184
		Min.	-1.4176	-0.3242	-0.0990
		Dif.	0.9421	0.1627	0.2173
26.198	3.975	Max.	-0.5315	-0.0608	0.1133
		Min.	-1.4590	-0.2233	-0.0942
		Dif.	0.9275	0.1625	0.2075
26.198	4.225	Max.	-0.5865	0.0910	0.1088
		Min.	-1.4477	-0.1533	-0.0885
		Dif.	0.8612	0.2443	0.1973
26.198	4.475	Max.	-0.6092	0.2375	0.1046
		Min.	-1.4126	-0.0762	-0.0831
		Dif.	0.8033	0.3137	0.1877
26.198	4.610	Max.	-0.6157	0.3688	0.0987
		Min.	-1.3824	0.0134	-0.0794
		Dif.	0.7667	0.3554	0.1782
26.198	4.910	Max.	-0.6004	0.3688	0.0992
		Min.	-1.2831	0.0134	-0.0798
		Dif.	0.6827	0.3554	0.1790
26.198	4.975	Max.	-0.5907	0.4478	0.1135
		Min.	-1.2543	0.0748	-0.0732
		Dif.	0.6636	0.3730	0.1868
26.198	5.225	Max.	-0.5505	0.5377	0.1299
		Min.	-1.1427	0.1518	-0.0670
		Dif.	0.5923	0.3859	0.1969
26.198	5.475	Max.	-0.4904	0.6068	0.1460
		Min.	-1.0120	0.2243	-0.0612
		Dif.	0.5216	0.3825	0.2072
26.198	5.725	Max.	-0.3952	0.6555	0.1592
		Min.	-0.8848	0.2843	-0.0556
		Dif.	0.4896	0.3711	0.2147
26.198	5.975	Max.	-0.2901	0.6806	0.1675
		Min.	-0.7445	0.3322	-0.0516
		Dif.	0.4543	0.3484	0.2191
26.198	6.225	Max.	-0.1820	0.6864	0.1696
		Min.	-0.5930	0.3650	-0.0515
		Dif.	0.4111	0.3214	0.2211
26.198	6.475	Max.	-0.0747	0.6789	0.1666
		Min.	-0.4344	0.3804	-0.0583
		Dif.	0.3596	0.2984	0.2249
26.198	6.725	Max.	0.0287	0.6645	0.1595
		Min.	-0.2731	0.3777	-0.0747
		Dif.	0.3018	0.2869	0.2342
26.198	6.750	Max.	0.0392	0.6588	0.1473
		Min.	-0.2565	0.3702	-0.0924
		Dif.	0.2957	0.2886	0.2397



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
26.419	0.225	Max.	0.6554	0.1555	0.0746
		Min.	-0.3173	-0.4599	-0.1793
		Dif.	0.9727	0.6153	0.2539
26.419	0.475	Max.	0.5372	0.1444	0.0872
		Min.	-0.2834	-0.4723	-0.1676
		Dif.	0.8206	0.6167	0.2548
26.419	0.725	Max.	0.4133	0.1219	0.1071
		Min.	-0.2562	-0.4941	-0.1481
		Dif.	0.6695	0.6160	0.2553
26.419	0.975	Max.	0.2866	0.0868	0.1336
		Min.	-0.2433	-0.5212	-0.1210
		Dif.	0.5299	0.6079	0.2545
26.419	1.225	Max.	0.1864	0.0322	0.1659
		Min.	-0.2788	-0.5430	-0.0862
		Dif.	0.4652	0.5752	0.2522
26.419	1.475	Max.	0.0813	-0.0288	0.2015
		Min.	-0.3321	-0.5594	-0.0487
		Dif.	0.4133	0.5306	0.2502
26.419	2.225	Max.	-0.0636	-0.1242	0.1942
		Min.	-0.6681	-0.6464	-0.0520
		Dif.	0.6045	0.5222	0.2462
26.419	2.475	Max.	-0.1056	-0.1998	0.1716
		Min.	-0.8228	-0.6674	-0.0741
		Dif.	0.7171	0.4676	0.2456
26.419	2.725	Max.	-0.1650	-0.2550	0.1537
		Min.	-0.9798	-0.6454	-0.0882
		Dif.	0.8148	0.3904	0.2418
26.419	2.975	Max.	-0.2358	-0.2877	0.1417
		Min.	-1.1288	-0.5850	-0.0973
		Dif.	0.8930	0.2972	0.2390
26.419	3.225	Max.	-0.3118	-0.2958	0.1328
		Min.	-1.2603	-0.4934	-0.1012
		Dif.	0.9484	0.1976	0.2340
26.419	3.475	Max.	-0.3872	-0.2502	0.1257
		Min.	-1.3665	-0.4071	-0.1013
		Dif.	0.9793	0.1569	0.2269
26.419	3.725	Max.	-0.4563	-0.1615	0.1198
		Min.	-1.4415	-0.3242	-0.0984
		Dif.	0.9852	0.1627	0.2182
26.419	3.975	Max.	-0.5141	-0.0608	0.1147
		Min.	-1.4810	-0.2233	-0.0936
		Dif.	0.9669	0.1625	0.2083
26.419	4.225	Max.	-0.5725	0.0910	0.1102
		Min.	-1.4666	-0.1533	-0.0879
		Dif.	0.8941	0.2443	0.1981
26.419	4.475	Max.	-0.5972	0.2375	0.1065
		Min.	-1.4297	-0.0762	-0.0831
		Dif.	0.8325	0.3137	0.1896
26.419	4.975	Max.	-0.5821	0.4478	0.1143
		Min.	-1.2721	0.0748	-0.0727
		Dif.	0.6899	0.3730	0.1870
26.419	5.225	Max.	-0.5436	0.5377	0.1309
		Min.	-1.1638	0.1518	-0.0667
		Dif.	0.6203	0.3859	0.1976
26.419	5.475	Max.	-0.4789	0.6068	0.1467
		Min.	-1.0424	0.2243	-0.0606
		Dif.	0.5635	0.3825	0.2073



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
26.419	5.725	Max.	-0.3831	0.6555	0.1600
		Min.	-0.9201	0.2843	-0.0550
		Dif.	0.5370	0.3711	0.2149
26.419	5.975	Max.	-0.2789	0.6806	0.1683
		Min.	-0.7818	0.3322	-0.0511
		Dif.	0.5029	0.3484	0.2194
26.419	6.225	Max.	-0.1707	0.6864	0.1704
		Min.	-0.6308	0.3650	-0.0510
		Dif.	0.4601	0.3214	0.2214
26.419	6.475	Max.	-0.0622	0.6789	0.1675
		Min.	-0.4713	0.3804	-0.0578
		Dif.	0.4092	0.2984	0.2252
26.419	6.725	Max.	0.0447	0.6645	0.1603
		Min.	-0.3082	0.3777	-0.0742
		Dif.	0.3529	0.2869	0.2345

Plancher 2

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
-0.028	1.739	Max.	-0.2972	0.0695	0.3239
		Min.	-0.6171	-0.1687	0.1312
		Dif.	0.3198	0.2382	0.1927
-0.028	1.740	Max.	-0.2973	0.0695	0.3239
		Min.	-0.6171	-0.1687	0.1312
		Dif.	0.3198	0.2382	0.1927
0.100	0.200	Max.	-0.1904	0.0816	0.4887
		Min.	-0.6729	-0.1631	0.3698
		Dif.	0.4825	0.2446	0.1189
0.100	0.450	Max.	-0.2161	0.0803	0.4215
		Min.	-0.6555	-0.1646	0.2987
		Dif.	0.4394	0.2448	0.1227
0.100	0.700	Max.	-0.2410	0.0785	0.3604
		Min.	-0.6404	-0.1663	0.2342
		Dif.	0.3993	0.2448	0.1261
0.100	0.950	Max.	-0.2597	0.0760	0.3086
		Min.	-0.6345	-0.1685	0.1808
		Dif.	0.3747	0.2445	0.1278
0.100	1.200	Max.	-0.2799	0.0729	0.2736
		Min.	-0.6315	-0.1708	0.1423
		Dif.	0.3516	0.2438	0.1313
0.100	1.450	Max.	-0.3025	0.0700	0.2760
		Min.	-0.6329	-0.1722	0.1201
		Dif.	0.3304	0.2422	0.1559
0.100	1.700	Max.	-0.3276	0.0691	0.3170
		Min.	-0.6396	-0.1699	0.1281
		Dif.	0.3120	0.2390	0.1889
0.223	0.100	Max.	-0.2388	0.1247	0.5238
		Min.	-0.7296	-0.1204	0.4073
		Dif.	0.4909	0.2451	0.1165
0.223	0.200	Max.	-0.2462	0.1340	0.4795
		Min.	-0.7199	-0.1113	0.3604
		Dif.	0.4737	0.2453	0.1190
0.223	0.450	Max.	-0.2639	0.1371	0.4165
		Min.	-0.6950	-0.1086	0.2939
		Dif.	0.4312	0.2457	0.1226
0.223	0.700	Max.	-0.2820	0.1296	0.3564
		Min.	-0.6708	-0.1173	0.2302
		Dif.	0.3888	0.2469	0.1262



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.223	0.950	Max.	-0.2950	0.1195	0.3042
		Min.	-0.6570	-0.1306	0.1758
		Dif.	0.3619	0.2501	0.1284
0.223	1.200	Max.	-0.3101	0.1029	0.2635
		Min.	-0.6485	-0.1533	0.1353
		Dif.	0.3384	0.2562	0.1282
0.223	1.450	Max.	-0.3308	0.0726	0.2640
		Min.	-0.6484	-0.1947	0.1112
		Dif.	0.3176	0.2673	0.1528
0.223	1.700	Max.	-0.3606	0.0354	0.3078
		Min.	-0.6600	-0.2545	0.1218
		Dif.	0.2994	0.2900	0.1860
0.223	1.740	Max.	-0.3656	0.0049	0.3304
		Min.	-0.6605	-0.3070	0.1333
		Dif.	0.2950	0.3119	0.1971
0.472	0.100	Max.	-0.3591	0.1956	0.5248
		Min.	-0.8316	-0.0495	0.4103
		Dif.	0.4725	0.2451	0.1145
0.472	0.200	Max.	-0.3598	0.2000	0.4766
		Min.	-0.8157	-0.0453	0.3592
		Dif.	0.4559	0.2453	0.1174
0.472	0.450	Max.	-0.3600	0.2062	0.4095
		Min.	-0.7745	-0.0400	0.2889
		Dif.	0.4144	0.2462	0.1206
0.472	0.700	Max.	-0.3623	0.1838	0.3542
		Min.	-0.7353	-0.0649	0.2298
		Dif.	0.3730	0.2488	0.1245
0.472	0.950	Max.	-0.3667	0.1683	0.3019
		Min.	-0.7032	-0.0864	0.1755
		Dif.	0.3365	0.2547	0.1264
0.472	1.200	Max.	-0.3703	0.1453	0.2522
		Min.	-0.6826	-0.1236	0.1273
		Dif.	0.3124	0.2689	0.1249
0.472	1.450	Max.	-0.3864	0.0765	0.2460
		Min.	-0.6795	-0.2152	0.1001
		Dif.	0.2931	0.2917	0.1459
0.472	1.700	Max.	-0.4220	0.0016	0.2864
		Min.	-0.7021	-0.3146	0.1090
		Dif.	0.2800	0.3161	0.1774
0.472	1.740	Max.	-0.4312	0.0049	0.3304
		Min.	-0.7107	-0.3070	0.1333
		Dif.	0.2795	0.3119	0.1971
0.723	0.100	Max.	-0.4799	0.2611	0.5230
		Min.	-0.9340	0.0168	0.4114
		Dif.	0.4541	0.2443	0.1115
0.723	0.200	Max.	-0.4737	0.2636	0.4782
		Min.	-0.9118	0.0191	0.3641
		Dif.	0.4381	0.2445	0.1141
0.723	0.450	Max.	-0.4575	0.2653	0.4240
		Min.	-0.8557	0.0203	0.3076
		Dif.	0.3982	0.2449	0.1164
0.723	0.700	Max.	-0.4597	0.2429	0.3688
		Min.	-0.8168	-0.0046	0.2485
		Dif.	0.3571	0.2475	0.1203
0.723	0.950	Max.	-0.4193	0.1788	0.2918
		Min.	-0.7390	-0.0920	0.1737
		Dif.	0.3197	0.2709	0.1181



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
0.723	1.200	Max.	-0.4262	0.1559	0.2463
		Min.	-0.7150	-0.1293	0.1219
		Dif.	0.2887	0.2852	0.1244
0.723	1.450	Max.	-0.4372	0.0868	0.2490
		Min.	-0.7085	-0.2220	0.1054
		Dif.	0.2713	0.3088	0.1437
0.723	1.700	Max.	-0.4748	-0.0930	0.2843
		Min.	-0.7377	-0.4543	0.1123
		Dif.	0.2629	0.3614	0.1720
0.723	1.740	Max.	-0.4720	-0.3389	0.3248
		Min.	-0.7306	-0.7689	0.1318
		Dif.	0.2586	0.4300	0.1929
0.973	0.100	Max.	-0.6004	0.3217	0.5188
		Min.	-1.0365	0.0793	0.4113
		Dif.	0.4360	0.2425	0.1075
0.973	0.200	Max.	-0.5878	0.3229	0.4753
		Min.	-1.0085	0.0802	0.3659
		Dif.	0.4207	0.2427	0.1093
0.973	0.450	Max.	-0.5563	0.3225	0.4214
		Min.	-0.9388	0.0786	0.3104
		Dif.	0.3825	0.2439	0.1110
0.973	0.700	Max.	-0.5112	0.3104	0.3806
		Min.	-0.8580	0.0596	0.2729
		Dif.	0.3468	0.2508	0.1077
0.973	0.950	Max.	-0.5076	0.2595	0.3085
		Min.	-0.8099	-0.0111	0.1915
		Dif.	0.3023	0.2706	0.1170
0.973	1.200	Max.	-0.4826	0.1856	0.2746
		Min.	-0.7560	-0.1063	0.1471
		Dif.	0.2734	0.2919	0.1275
0.973	1.450	Max.	-0.4912	0.0903	0.2627
		Min.	-0.7473	-0.2317	0.1206
		Dif.	0.2561	0.3220	0.1421
0.973	1.700	Max.	-0.5313	-0.0662	0.2716
		Min.	-0.7850	-0.4336	0.1090
		Dif.	0.2538	0.3673	0.1626
0.973	1.740	Max.	-0.5419	-0.1179	0.2851
		Min.	-0.7968	-0.4998	0.1083
		Dif.	0.2549	0.3820	0.1767
1.222	0.100	Max.	-0.7201	0.3792	0.5130
		Min.	-1.1387	0.1388	0.4106
		Dif.	0.4186	0.2403	0.1024
1.222	0.200	Max.	-0.7009	0.3810	0.4704
		Min.	-1.1051	0.1405	0.3679
		Dif.	0.4043	0.2406	0.1025
1.222	0.450	Max.	-0.6530	0.3785	0.4098
		Min.	-1.0214	0.1344	0.3083
		Dif.	0.3684	0.2440	0.1015
1.222	0.700	Max.	-0.6078	0.3663	0.3719
		Min.	-0.9407	0.1154	0.2684
		Dif.	0.3330	0.2510	0.1036
1.222	0.950	Max.	-0.5670	0.3285	0.3380
		Min.	-0.8657	0.0650	0.2241
		Dif.	0.2987	0.2634	0.1139
1.222	1.200	Max.	-0.5420	0.2546	0.3042
		Min.	-0.8118	-0.0302	0.1797
		Dif.	0.2698	0.2848	0.1244



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.222	1.450	Max.	-0.5425	0.1165	0.2860
		Min.	-0.7919	-0.2094	0.1440
		Dif.	0.2495	0.3260	0.1420
1.222	1.700	Max.	-0.5769	-0.0911	0.2701
		Min.	-0.8239	-0.4759	0.1124
		Dif.	0.2469	0.3848	0.1577
1.222	1.740	Max.	-0.5738	-0.3412	0.2569
		Min.	-0.8182	-0.7944	0.0915
		Dif.	0.2444	0.4532	0.1654
1.472	0.100	Max.	-0.8390	0.4298	0.5058
		Min.	-1.2410	0.1909	0.4095
		Dif.	0.4020	0.2389	0.0963
1.472	0.200	Max.	-0.8140	0.4313	0.4705
		Min.	-1.2029	0.1921	0.3753
		Dif.	0.3889	0.2392	0.0952
1.472	0.450	Max.	-0.7518	0.4277	0.4274
		Min.	-1.1084	0.1868	0.3341
		Dif.	0.3566	0.2409	0.0933
1.472	0.700	Max.	-0.7065	0.4155	0.3924
		Min.	-1.0279	0.1677	0.2913
		Dif.	0.3214	0.2478	0.1010
1.472	0.950	Max.	-0.6264	0.3094	0.3409
		Min.	-0.9242	0.0308	0.2228
		Dif.	0.2978	0.2785	0.1181
1.472	1.200	Max.	-0.6017	0.2355	0.3072
		Min.	-0.8700	-0.0644	0.1783
		Dif.	0.2683	0.2999	0.1289
1.472	1.450	Max.	-0.5966	0.1307	0.3042
		Min.	-0.8563	-0.1999	0.1587
		Dif.	0.2596	0.3306	0.1455
1.472	1.700	Max.	-0.6234	-0.0029	0.2929
		Min.	-0.8861	-0.3720	0.1340
		Dif.	0.2627	0.3691	0.1589
1.472	1.740	Max.	-0.6314	-0.0294	0.2852
		Min.	-0.8951	-0.4080	0.1221
		Dif.	0.2637	0.3787	0.1630
1.722	0.100	Max.	-0.9558	0.4735	0.4972
		Min.	-1.3446	0.2346	0.4078
		Dif.	0.3888	0.2390	0.0895
1.722	0.200	Max.	-0.9258	0.4745	0.4662
		Min.	-1.3029	0.2352	0.3790
		Dif.	0.3772	0.2392	0.0872
1.722	0.450	Max.	-0.8513	0.4705	0.4304
		Min.	-1.1997	0.2295	0.3396
		Dif.	0.3484	0.2410	0.0908
1.722	0.700	Max.	-0.7677	0.4549	0.4076
		Min.	-1.0932	0.2073	0.3057
		Dif.	0.3255	0.2476	0.1019
1.722	0.950	Max.	-0.7182	0.3593	0.3551
		Min.	-1.0125	0.0821	0.2351
		Dif.	0.2944	0.2772	0.1200
1.722	1.200	Max.	-0.6566	0.2667	0.3333
		Min.	-0.9422	-0.0355	0.2002
		Dif.	0.2856	0.3022	0.1331
1.722	1.450	Max.	-0.6417	0.1556	0.3013
		Min.	-0.9248	-0.1783	0.1587
		Dif.	0.2831	0.3339	0.1426



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
1.722	1.700	Max.	-0.6609	0.0129	0.2856
		Min.	-0.9522	-0.3607	0.1301
		Dif.	0.2913	0.3736	0.1554
1.722	1.740	Max.	-0.6671	-0.0271	0.2852
		Min.	-0.9612	-0.4104	0.1221
		Dif.	0.2942	0.3833	0.1630
1.972	0.100	Max.	-1.0706	0.5103	0.4873
		Min.	-1.4488	0.2711	0.4053
		Dif.	0.3782	0.2392	0.0819
1.972	0.200	Max.	-1.0357	0.5123	0.4629
		Min.	-1.4041	0.2731	0.3821
		Dif.	0.3684	0.2392	0.0807
1.972	0.450	Max.	-0.9489	0.5073	0.4345
		Min.	-1.2931	0.2648	0.3387
		Dif.	0.3442	0.2425	0.0958
1.972	0.700	Max.	-0.8625	0.4917	0.4118
		Min.	-1.1898	0.2426	0.3046
		Dif.	0.3273	0.2491	0.1072
1.972	0.950	Max.	-0.7792	0.4442	0.3893
		Min.	-1.0951	0.1810	0.2703
		Dif.	0.3159	0.2632	0.1190
1.972	1.200	Max.	-0.7176	0.3516	0.3675
		Min.	-1.0247	0.0633	0.2354
		Dif.	0.3071	0.2884	0.1321
1.972	1.450	Max.	-0.6870	0.1908	0.3420
		Min.	-0.9948	-0.1420	0.1941
		Dif.	0.3078	0.3328	0.1479
1.972	1.700	Max.	-0.6977	-0.0317	0.3340
		Min.	-1.0189	-0.4256	0.1677
		Dif.	0.3212	0.3940	0.1664
1.972	1.740	Max.	-0.6913	-0.2901	0.3448
		Min.	-1.0120	-0.7445	0.1624
		Dif.	0.3207	0.4544	0.1823
2.223	0.100	Max.	-1.1840	0.5366	0.4758
		Min.	-1.5534	0.2958	0.4018
		Dif.	0.3694	0.2408	0.0740
2.223	0.200	Max.	-1.1444	0.5381	0.4653
		Min.	-1.5086	0.2973	0.3860
		Dif.	0.3642	0.2408	0.0792
2.223	0.450	Max.	-1.0455	0.5327	0.4553
		Min.	-1.3978	0.2898	0.3623
		Dif.	0.3524	0.2429	0.0929
2.223	0.700	Max.	-0.9584	0.5171	0.4324
		Min.	-1.2946	0.2676	0.3284
		Dif.	0.3362	0.2495	0.1041
2.223	0.950	Max.	-0.8456	0.4152	0.4254
		Min.	-1.1820	0.1386	0.2955
		Dif.	0.3364	0.2766	0.1299
2.223	1.200	Max.	-0.7837	0.3227	0.4038
		Min.	-1.1119	0.0209	0.2604
		Dif.	0.3283	0.3019	0.1434
2.223	1.450	Max.	-0.7469	0.2062	0.3996
		Min.	-1.0854	-0.1284	0.2379
		Dif.	0.3385	0.3346	0.1617
2.223	1.700	Max.	-0.7511	0.0233	0.3872
		Min.	-1.1092	-0.3526	0.2077
		Dif.	0.3581	0.3759	0.1795



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.223	1.740	Max.	-0.7563	-0.0301	0.3753
		Min.	-1.1190	-0.4201	0.1856
		Dif.	0.3626	0.3900	0.1897
2.473	0.100	Max.	-1.2913	0.5522	0.4624
		Min.	-1.6622	0.3085	0.3964
		Dif.	0.3709	0.2438	0.0660
2.473	0.200	Max.	-1.2489	0.5535	0.4633
		Min.	-1.6171	0.3100	0.3857
		Dif.	0.3682	0.2436	0.0775
2.473	0.450	Max.	-1.1438	0.5483	0.4618
		Min.	-1.5057	0.3031	0.3695
		Dif.	0.3619	0.2452	0.0923
2.473	0.700	Max.	-1.0365	0.5330	0.4760
		Min.	-1.4002	0.2837	0.3661
		Dif.	0.3637	0.2493	0.1099
2.473	0.950	Max.	-0.9417	0.4350	0.4569
		Min.	-1.2888	0.1582	0.3216
		Dif.	0.3471	0.2768	0.1353
2.473	1.200	Max.	-0.8596	0.3392	0.4729
		Min.	-1.2172	0.0374	0.3163
		Dif.	0.3576	0.3018	0.1566
2.473	1.450	Max.	-0.8153	0.2245	0.4669
		Min.	-1.1870	-0.1022	0.2921
		Dif.	0.3716	0.3268	0.1749
2.473	1.700	Max.	-0.8095	-0.0019	0.4663
		Min.	-1.2070	-0.3890	0.2709
		Dif.	0.3976	0.3871	0.1954
2.473	1.740	Max.	-0.8004	-0.2568	0.4696
		Min.	-1.1995	-0.7113	0.2634
		Dif.	0.3991	0.4545	0.2063
2.723	0.100	Max.	-1.3964	0.5579	0.4485
		Min.	-1.7698	0.3094	0.3866
		Dif.	0.3733	0.2485	0.0619
2.723	0.200	Max.	-1.3523	0.5598	0.4604
		Min.	-1.7256	0.3118	0.3841
		Dif.	0.3732	0.2480	0.0764
2.723	0.450	Max.	-1.2425	0.5547	0.4759
		Min.	-1.6159	0.3055	0.3781
		Dif.	0.3735	0.2492	0.0978
2.723	0.700	Max.	-1.1352	0.5394	0.4901
		Min.	-1.5105	0.2862	0.3747
		Dif.	0.3754	0.2532	0.1154
2.723	0.950	Max.	-1.0326	0.4905	0.5056
		Min.	-1.4121	0.2246	0.3702
		Dif.	0.3796	0.2659	0.1354
2.723	1.200	Max.	-0.9504	0.3930	0.5216
		Min.	-1.3406	0.1056	0.3650
		Dif.	0.3903	0.2874	0.1566
2.723	1.450	Max.	-0.9002	0.2269	0.5414
		Min.	-1.3112	-0.1030	0.3564
		Dif.	0.4111	0.3299	0.1850
2.723	1.700	Max.	-0.8917	0.0522	0.5593
		Min.	-1.3366	-0.3232	0.3495
		Dif.	0.4448	0.3754	0.2098
2.723	1.740	Max.	-0.8938	0.0048	0.5817
		Min.	-1.3451	-0.3829	0.3626
		Dif.	0.4513	0.3877	0.2191



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
2.973	0.100	Max.	-1.4992	0.5536	0.4317
		Min.	-1.8753	0.2967	0.3735
		Dif.	0.3761	0.2568	0.0581
2.973	0.200	Max.	-1.4547	0.5542	0.4515
		Min.	-1.8336	0.2975	0.3795
		Dif.	0.3789	0.2568	0.0720
2.973	0.450	Max.	-1.3444	0.5484	0.4750
		Min.	-1.7308	0.2904	0.3853
		Dif.	0.3864	0.2580	0.0898
2.973	0.700	Max.	-1.2370	0.5331	0.4890
		Min.	-1.6254	0.2710	0.3821
		Dif.	0.3884	0.2621	0.1069
2.973	0.950	Max.	-1.1306	0.4309	0.5532
		Min.	-1.5438	0.1447	0.4081
		Dif.	0.4132	0.2862	0.1452
2.973	1.200	Max.	-1.0483	0.3346	0.5692
		Min.	-1.4724	0.0245	0.4029
		Dif.	0.4241	0.3101	0.1664
2.973	1.450	Max.	-0.9988	0.2258	0.6013
		Min.	-1.4520	-0.1117	0.4102
		Dif.	0.4532	0.3375	0.1911
2.973	1.700	Max.	-0.9857	0.0100	0.6132
		Min.	-1.4795	-0.3828	0.4006
		Dif.	0.4938	0.3927	0.2126
2.973	1.740	Max.	-0.9755	-0.2394	0.5915
		Min.	-1.4737	-0.6961	0.3797
		Dif.	0.4981	0.4567	0.2118
3.223	0.100	Max.	-1.5988	0.5437	0.4120
		Min.	-1.9774	0.2727	0.3564
		Dif.	0.3786	0.2710	0.0555
3.223	0.200	Max.	-1.5547	0.5437	0.4363
		Min.	-1.9388	0.2728	0.3692
		Dif.	0.3840	0.2709	0.0670
3.223	0.450	Max.	-1.4457	0.5357	0.4655
		Min.	-1.8438	0.2632	0.3809
		Dif.	0.3982	0.2726	0.0847
3.223	0.700	Max.	-1.3442	0.5109	0.5069
		Min.	-1.7665	0.2326	0.4030
		Dif.	0.4223	0.2783	0.1039
3.223	0.950	Max.	-1.2329	0.4086	0.5634
		Min.	-1.6600	0.1053	0.4203
		Dif.	0.4271	0.3033	0.1431
3.223	1.200	Max.	-1.1574	0.3172	0.6062
		Min.	-1.6178	-0.0076	0.4409
		Dif.	0.4604	0.3247	0.1653
3.223	1.450	Max.	-1.1113	0.2108	0.6350
		Min.	-1.6083	-0.1401	0.4479
		Dif.	0.4970	0.3509	0.1872
3.223	1.700	Max.	-1.0983	0.0635	0.6530
		Min.	-1.6432	-0.3254	0.4463
		Dif.	0.5449	0.3889	0.2067
3.223	1.740	Max.	-1.0991	0.0153	0.6233
		Min.	-1.6528	-0.3880	0.4199
		Dif.	0.5537	0.4033	0.2034
3.473	0.100	Max.	-1.6943	0.5273	0.3882
		Min.	-2.0749	0.2404	0.3359
		Dif.	0.3806	0.2869	0.0523



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.473	0.200	Max.	-1.6513	0.5267	0.4204
		Min.	-2.0402	0.2397	0.3555
		Dif.	0.3888	0.2870	0.0649
3.473	0.450	Max.	-1.5451	0.5131	0.4660
		Min.	-1.9553	0.2232	0.3809
		Dif.	0.4102	0.2899	0.0851
3.473	0.700	Max.	-1.4437	0.4883	0.5072
		Min.	-1.8781	0.1926	0.4031
		Dif.	0.4344	0.2956	0.1041
3.473	0.950	Max.	-1.3486	0.4371	0.5491
		Min.	-1.8103	0.1295	0.4247
		Dif.	0.4618	0.3076	0.1244
3.473	1.200	Max.	-1.2729	0.3457	0.5919
		Min.	-1.7682	0.0167	0.4454
		Dif.	0.4953	0.3290	0.1464
3.473	1.450	Max.	-1.2273	0.1965	0.6389
		Min.	-1.7657	-0.1684	0.4658
		Dif.	0.5383	0.3649	0.1731
3.473	1.700	Max.	-1.2158	0.0554	0.6717
		Min.	-1.8083	-0.3440	0.4776
		Dif.	0.5924	0.3994	0.1941
3.473	1.740	Max.	-1.2146	-0.0021	0.6696
		Min.	-1.8163	-0.4151	0.4680
		Dif.	0.6017	0.4130	0.2015
3.723	0.100	Max.	-1.7847	0.5051	0.3598
		Min.	-2.1665	0.2012	0.3116
		Dif.	0.3818	0.3039	0.0483
3.723	0.200	Max.	-1.7438	0.5032	0.3925
		Min.	-2.1367	0.1987	0.3326
		Dif.	0.3928	0.3044	0.0599
3.723	0.450	Max.	-1.6428	0.4944	0.4303
		Min.	-2.0640	0.1883	0.3565
		Dif.	0.4212	0.3061	0.0738
3.723	0.700	Max.	-1.5413	0.4696	0.4696
		Min.	-1.9867	0.1577	0.3806
		Dif.	0.4455	0.3119	0.0890
3.723	0.950	Max.	-1.4621	0.3602	0.5489
		Min.	-1.9550	0.0235	0.4311
		Dif.	0.4929	0.3367	0.1178
3.723	1.200	Max.	-1.3865	0.2687	0.5908
		Min.	-1.9129	-0.0894	0.4527
		Dif.	0.5265	0.3581	0.1382
3.723	1.450	Max.	-1.3486	0.1683	0.6472
		Min.	-1.9254	-0.2139	0.4873
		Dif.	0.5768	0.3822	0.1599
3.723	1.700	Max.	-1.3427	-0.0139	0.7018
		Min.	-1.9795	-0.4402	0.5208
		Dif.	0.6369	0.4263	0.1811
3.723	1.740	Max.	-1.3354	-0.2058	0.7072
		Min.	-1.9804	-0.6789	0.5193
		Dif.	0.6450	0.4731	0.1879
3.973	0.100	Max.	-1.8688	0.4831	0.3272
		Min.	-2.2501	0.1628	0.2835
		Dif.	0.3813	0.3203	0.0437
3.973	0.200	Max.	-1.8298	0.4803	0.3577
		Min.	-2.2245	0.1595	0.3035
		Dif.	0.3948	0.3209	0.0543



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
3.973	0.450	Max.	-1.7337	0.4684	0.3941
		Min.	-2.1627	0.1451	0.3271
		Dif.	0.4290	0.3234	0.0670
3.973	0.700	Max.	-1.6517	0.4286	0.4367
		Min.	-2.1243	0.0959	0.3566
		Dif.	0.4725	0.3327	0.0801
3.973	0.950	Max.	-1.5538	0.3238	0.5255
		Min.	-2.0561	-0.0332	0.4171
		Dif.	0.5023	0.3570	0.1084
3.973	1.200	Max.	-1.5015	0.2318	0.5689
		Min.	-2.0569	-0.1456	0.4458
		Dif.	0.5554	0.3774	0.1230
3.973	1.450	Max.	-1.4736	0.1225	0.6210
		Min.	-2.0857	-0.2807	0.4804
		Dif.	0.6121	0.4032	0.1406
3.973	1.700	Max.	-1.4808	-0.0404	0.6827
		Min.	-2.1598	-0.4824	0.5224
		Dif.	0.6790	0.4420	0.1603
3.973	1.740	Max.	-1.4843	-0.1189	0.6862
		Min.	-2.1747	-0.5798	0.5205
		Dif.	0.6904	0.4609	0.1657
4.223	0.100	Max.	-1.9455	0.4619	0.2932
		Min.	-2.3246	0.1257	0.2493
		Dif.	0.3792	0.3363	0.0439
4.223	0.200	Max.	-1.9083	0.4579	0.3230
		Min.	-2.3030	0.1207	0.2724
		Dif.	0.3947	0.3372	0.0507
4.223	0.450	Max.	-1.8178	0.4320	0.3683
		Min.	-2.2525	0.0889	0.3021
		Dif.	0.4347	0.3431	0.0662
4.223	0.700	Max.	-1.7358	0.3922	0.4104
		Min.	-2.2141	0.0398	0.3320
		Dif.	0.4783	0.3525	0.0784
4.223	0.950	Max.	-1.6634	0.3343	0.4531
		Min.	-2.1892	-0.0313	0.3614
		Dif.	0.5258	0.3656	0.0917
4.223	1.200	Max.	-1.6111	0.2423	0.4959
		Min.	-2.1901	-0.1437	0.3907
		Dif.	0.5789	0.3859	0.1051
4.223	1.450	Max.	-1.5905	0.0819	0.5595
		Min.	-2.2314	-0.3409	0.4352
		Dif.	0.6409	0.4229	0.1243
4.223	1.700	Max.	-1.6089	-0.0950	0.6151
		Min.	-2.3226	-0.5594	0.4739
		Dif.	0.7136	0.4645	0.1411
4.223	1.740	Max.	-1.6104	-0.2239	0.6252
		Min.	-2.3354	-0.7189	0.4799
		Dif.	0.7250	0.4949	0.1453
4.473	0.100	Max.	-2.0140	0.4420	0.2582
		Min.	-2.3890	0.0906	0.2092
		Dif.	0.3750	0.3514	0.0490
4.473	0.200	Max.	-1.9791	0.4369	0.2769
		Min.	-2.3717	0.0843	0.2310
		Dif.	0.3926	0.3526	0.0459
4.473	0.450	Max.	-1.8935	0.4241	0.3048
		Min.	-2.3308	0.0690	0.2482
		Dif.	0.4373	0.3552	0.0566



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.473	0.700	Max.	-1.8115	0.3844	0.3474
		Min.	-2.2924	0.0198	0.2776
		Dif.	0.4809	0.3645	0.0698
4.473	0.950	Max.	-1.7563	0.2517	0.3889
		Min.	-2.3015	-0.1424	0.3014
		Dif.	0.5451	0.3940	0.0875
4.473	1.200	Max.	-1.7047	0.1597	0.4319
		Min.	-2.3017	-0.2547	0.3305
		Dif.	0.5970	0.4144	0.1014
4.473	1.450	Max.	-1.6963	0.0419	0.4823
		Min.	-2.3608	-0.3998	0.3657
		Dif.	0.6646	0.4417	0.1166
4.473	1.700	Max.	-1.7244	-0.1301	0.5287
		Min.	-2.4654	-0.6118	0.3948
		Dif.	0.7411	0.4817	0.1339
4.473	1.740	Max.	-1.7282	-0.2491	0.5333
		Min.	-2.4814	-0.7586	0.3953
		Dif.	0.7532	0.5095	0.1379
4.723	0.100	Max.	-2.0729	0.4306	0.2214
		Min.	-2.4412	0.0671	0.1653
		Dif.	0.3683	0.3634	0.0562
4.723	0.200	Max.	-2.0391	0.4247	0.2258
		Min.	-2.4263	0.0599	0.1813
		Dif.	0.3872	0.3648	0.0445
4.723	0.450	Max.	-1.9538	0.4090	0.2428
		Min.	-2.3948	0.0410	0.1927
		Dif.	0.4410	0.3680	0.0501
4.723	0.700	Max.	-1.8861	0.3551	0.2559
		Min.	-2.3801	-0.0255	0.1981
		Dif.	0.4940	0.3806	0.0578
4.723	0.950	Max.	-1.8199	0.2296	0.3321
		Min.	-2.3629	-0.1793	0.2498
		Dif.	0.5430	0.4089	0.0823
4.723	1.200	Max.	-1.7855	0.1350	0.3452
		Min.	-2.3925	-0.2939	0.2551
		Dif.	0.6070	0.4289	0.0901
4.723	1.450	Max.	-1.7838	0.0139	0.3696
		Min.	-2.4617	-0.4427	0.2671
		Dif.	0.6779	0.4566	0.1025
4.723	1.700	Max.	-1.8194	-0.1539	0.4030
		Min.	-2.5781	-0.6490	0.2854
		Dif.	0.7587	0.4952	0.1176
4.723	1.740	Max.	-1.8268	-0.2400	0.4127
		Min.	-2.5993	-0.7550	0.2899
		Dif.	0.7726	0.5150	0.1229
4.973	0.100	Max.	-2.1178	0.4287	0.1832
		Min.	-2.4842	0.0561	0.1195
		Dif.	0.3664	0.3726	0.0636
4.973	0.200	Max.	-2.0849	0.4216	0.1819
		Min.	-2.4693	0.0473	0.1276
		Dif.	0.3843	0.3743	0.0543
4.973	0.450	Max.	-2.0062	0.3843	0.1836
		Min.	-2.4370	0.0014	0.1379
		Dif.	0.4307	0.3829	0.0457
4.973	0.700	Max.	-1.9376	0.3303	0.1967
		Min.	-2.4232	-0.0651	0.1432
		Dif.	0.4856	0.3955	0.0535



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
4.973	0.950	Max.	-1.8820	0.2650	0.2098
		Min.	-2.4266	-0.1448	0.1484
		Dif.	0.5446	0.4098	0.0614
4.973	1.200	Max.	-1.8473	0.1704	0.2230
		Min.	-2.4563	-0.2594	0.1536
		Dif.	0.6090	0.4298	0.0694
4.973	1.450	Max.	-1.8459	0.0030	0.2455
		Min.	-2.5277	-0.4641	0.1613
		Dif.	0.6818	0.4670	0.0842
4.973	1.700	Max.	-1.8852	-0.1886	0.2651
		Min.	-2.6505	-0.6992	0.1682
		Dif.	0.7652	0.5106	0.0969
4.973	1.740	Max.	-1.8873	-0.3560	0.2662
		Min.	-2.6659	-0.9051	0.1653
		Dif.	0.7786	0.5490	0.1009
5.223	0.100	Max.	-2.1599	0.4338	0.1442
		Min.	-2.5071	0.0544	0.0726
		Dif.	0.3472	0.3793	0.0716
5.223	0.200	Max.	-2.1261	0.4267	0.1354
		Min.	-2.4937	0.0456	0.0692
		Dif.	0.3676	0.3811	0.0662
5.223	0.450	Max.	-2.0436	0.4101	0.1237
		Min.	-2.4633	0.0256	0.0634
		Dif.	0.4197	0.3844	0.0603
5.223	0.700	Max.	-1.9748	0.3561	0.1277
		Min.	-2.4497	-0.0409	0.0778
		Dif.	0.4749	0.3970	0.0500
5.223	0.950	Max.	-1.9174	0.2140	0.0880
		Min.	-2.4545	-0.2137	0.0379
		Dif.	0.5371	0.4277	0.0501
5.223	1.200	Max.	-1.8826	0.1194	0.0991
		Min.	-2.4844	-0.3283	0.0458
		Dif.	0.6018	0.4477	0.0533
5.223	1.450	Max.	-1.8857	-0.0052	0.1089
		Min.	-2.5628	-0.4811	0.0457
		Dif.	0.6771	0.4758	0.0632
5.223	1.700	Max.	-1.9270	-0.1722	0.1111
		Min.	-2.6889	-0.6855	0.0391
		Dif.	0.7618	0.5133	0.0721
5.223	1.740	Max.	-1.9358	-0.2475	0.1054
		Min.	-2.7131	-0.7777	0.0305
		Dif.	0.7773	0.5302	0.0749
5.473	0.100	Max.	-2.1872	0.4521	0.1053
		Min.	-2.5198	0.0703	0.0257
		Dif.	0.3326	0.3818	0.0796
5.473	0.200	Max.	-2.1517	0.4445	0.0842
		Min.	-2.5048	0.0609	0.0054
		Dif.	0.3531	0.3836	0.0788
5.473	0.450	Max.	-2.0654	0.4270	0.0618
		Min.	-2.4705	0.0398	-0.0151
		Dif.	0.4051	0.3871	0.0769
5.473	0.700	Max.	-1.9859	0.3677	0.0299
		Min.	-2.4457	-0.0328	-0.0501
		Dif.	0.4599	0.4005	0.0800
5.473	0.950	Max.	-1.9379	0.2303	0.0283
		Min.	-2.4601	-0.2003	-0.0393
		Dif.	0.5221	0.4306	0.0676



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.473	1.200	Max.	-1.8943	0.1321	-0.0017
		Min.	-2.4813	-0.3188	-0.0762
		Dif.	0.5869	0.4509	0.0745
5.473	1.450	Max.	-1.8946	0.0078	-0.0227
		Min.	-2.5569	-0.4707	-0.1007
		Dif.	0.6623	0.4785	0.0780
5.473	1.700	Max.	-1.9325	-0.1725	-0.0381
		Min.	-2.6793	-0.6914	-0.1196
		Dif.	0.7468	0.5189	0.0815
5.473	1.740	Max.	-1.9361	-0.3128	-0.0445
		Min.	-2.6969	-0.8632	-0.1266
		Dif.	0.7608	0.5504	0.0820
5.723	0.100	Max.	-2.2034	0.4850	0.0678
		Min.	-2.5189	0.1049	-0.0195
		Dif.	0.3155	0.3802	0.0873
5.723	0.200	Max.	-2.1644	0.4770	0.0366
		Min.	-2.4997	0.0949	-0.0533
		Dif.	0.3353	0.3821	0.0898
5.723	0.450	Max.	-2.0710	0.4353	-0.0063
		Min.	-2.4572	0.0440	-0.0994
		Dif.	0.3862	0.3913	0.0931
5.723	0.700	Max.	-1.9914	0.3760	-0.0382
		Min.	-2.4324	-0.0286	-0.1344
		Dif.	0.4410	0.4047	0.0962
5.723	0.950	Max.	-1.9262	0.3067	-0.0700
		Min.	-2.4260	-0.1127	-0.1694
		Dif.	0.4998	0.4195	0.0994
5.723	1.200	Max.	-1.8827	0.2085	-0.1002
		Min.	-2.4472	-0.2312	-0.2061
		Dif.	0.5645	0.4397	0.1060
5.723	1.450	Max.	-1.8743	0.0343	-0.1355
		Min.	-2.5118	-0.4431	-0.2504
		Dif.	0.6375	0.4774	0.1149
5.723	1.700	Max.	-1.9074	-0.1428	-0.1637
		Min.	-2.6290	-0.6595	-0.2870
		Dif.	0.7216	0.5167	0.1233
5.723	1.740	Max.	-1.9130	-0.2485	-0.1774
		Min.	-2.6485	-0.7888	-0.3036
		Dif.	0.7355	0.5403	0.1261
5.973	0.100	Max.	-2.2070	0.5261	0.0326
		Min.	-2.5060	0.1503	-0.0617
		Dif.	0.2990	0.3758	0.0943
5.973	0.200	Max.	-2.1670	0.5192	-0.0042
		Min.	-2.4822	0.1418	-0.1036
		Dif.	0.3152	0.3773	0.0994
5.973	0.450	Max.	-2.0626	0.5010	-0.0490
		Min.	-2.4262	0.1201	-0.1548
		Dif.	0.3636	0.3809	0.1058
5.973	0.700	Max.	-1.9831	0.4418	-0.0809
		Min.	-2.4014	0.0475	-0.1898
		Dif.	0.4183	0.3943	0.1089
5.973	0.950	Max.	-1.8850	0.2980	-0.1859
		Min.	-2.3539	-0.1264	-0.3185
		Dif.	0.4689	0.4245	0.1327
5.973	1.200	Max.	-1.8417	0.1998	-0.2159
		Min.	-2.3749	-0.2449	-0.3555
		Dif.	0.5332	0.4447	0.1396



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
5.973	1.450	Max.	-1.8263	0.0723	-0.2514
		Min.	-2.4309	-0.4005	-0.4025
		Dif.	0.6046	0.4728	0.1511
5.973	1.700	Max.	-1.8497	-0.1033	-0.2914
		Min.	-2.5358	-0.6148	-0.4548
		Dif.	0.6861	0.5115	0.1634
5.973	1.740	Max.	-1.8546	-0.2029	-0.3028
		Min.	-2.5540	-0.7364	-0.4690
		Dif.	0.6994	0.5336	0.1662
6.223	0.100	Max.	-2.1923	0.5784	0.0003
		Min.	-2.4925	0.2106	-0.1002
		Dif.	0.3002	0.3678	0.1004
6.223	0.200	Max.	-2.1587	0.5714	-0.0475
		Min.	-2.4513	0.2021	-0.1566
		Dif.	0.2926	0.3693	0.1091
6.223	0.450	Max.	-2.0420	0.5552	-0.1018
		Min.	-2.3799	0.1829	-0.2204
		Dif.	0.3379	0.3723	0.1186
6.223	0.700	Max.	-1.9216	0.5029	-0.1667
		Min.	-2.3036	0.1196	-0.2993
		Dif.	0.3820	0.3833	0.1326
6.223	0.950	Max.	-1.8609	0.3596	-0.2350
		Min.	-2.3033	-0.0543	-0.3803
		Dif.	0.4424	0.4139	0.1453
6.223	1.200	Max.	-1.7769	0.2547	-0.2976
		Min.	-2.2722	-0.1806	-0.4615
		Dif.	0.4953	0.4353	0.1640
6.223	1.450	Max.	-1.7488	0.1256	-0.3540
		Min.	-2.3118	-0.3380	-0.5356
		Dif.	0.5630	0.4636	0.1815
6.223	1.700	Max.	-1.7596	-0.0665	-0.4030
		Min.	-2.4004	-0.5725	-0.6003
		Dif.	0.6408	0.5060	0.1973
6.223	1.740	Max.	-1.7585	-0.2253	-0.4197
		Min.	-2.4110	-0.7665	-0.6217
		Dif.	0.6525	0.5413	0.2020
6.473	0.100	Max.	-2.1656	0.6433	-0.0280
		Min.	-2.4713	0.2870	-0.1334
		Dif.	0.3057	0.3563	0.1054
6.473	0.200	Max.	-2.1366	0.6373	-0.0850
		Min.	-2.4078	0.2798	-0.2017
		Dif.	0.2712	0.3576	0.1166
6.473	0.450	Max.	-2.0068	0.6018	-0.1647
		Min.	-2.3156	0.2371	-0.2971
		Dif.	0.3088	0.3647	0.1324
6.473	0.700	Max.	-1.8865	0.5494	-0.2296
		Min.	-2.2393	0.1737	-0.3760
		Dif.	0.3528	0.3757	0.1464
6.473	0.950	Max.	-1.7793	0.4803	-0.2944
		Min.	-2.1794	0.0902	-0.4549
		Dif.	0.4001	0.3900	0.1605
6.473	1.200	Max.	-1.6954	0.3754	-0.3568
		Min.	-2.1483	-0.0360	-0.5362
		Dif.	0.4529	0.4114	0.1793
6.473	1.450	Max.	-1.6485	0.1907	-0.4354
		Min.	-2.1634	-0.2603	-0.6398
		Dif.	0.5149	0.4510	0.2044



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.473	1.700	Max.	-1.6461	0.0076	-0.4995
		Min.	-2.2346	-0.4835	-0.7247
		Dif.	0.5885	0.4912	0.2252
6.473	1.740	Max.	-1.6486	-0.0728	-0.5181
		Min.	-2.2497	-0.5818	-0.7488
		Dif.	0.6011	0.5089	0.2308
6.723	0.100	Max.	-2.1310	0.7113	-0.0515
		Min.	-2.4434	0.3678	-0.1603
		Dif.	0.3124	0.3435	0.1089
6.723	0.200	Max.	-2.0940	0.7072	-0.1069
		Min.	-2.3726	0.3629	-0.2270
		Dif.	0.2785	0.3443	0.1201
6.723	0.450	Max.	-1.9623	0.6910	-0.1732
		Min.	-2.2419	0.3439	-0.3067
		Dif.	0.2796	0.3471	0.1335
6.723	0.700	Max.	-1.8427	0.6387	-0.2380
		Min.	-2.1648	0.2805	-0.3856
		Dif.	0.3221	0.3582	0.1476
6.723	0.950	Max.	-1.6767	0.5036	-0.3781
		Min.	-2.0293	0.1183	-0.5599
		Dif.	0.3526	0.3853	0.1818
6.723	1.200	Max.	-1.5928	0.3987	-0.4404
		Min.	-1.9982	-0.0080	-0.6414
		Dif.	0.4053	0.4067	0.2009
6.723	1.450	Max.	-1.5294	0.2687	-0.5047
		Min.	-1.9914	-0.1661	-0.7269
		Dif.	0.4620	0.4349	0.2223
6.723	1.700	Max.	-1.5067	0.0652	-0.5745
		Min.	-2.0360	-0.4144	-0.8197
		Dif.	0.5292	0.4796	0.2452
6.723	1.740	Max.	-1.4998	-0.1067	-0.5934
		Min.	-2.0389	-0.6245	-0.8447
		Dif.	0.5391	0.5178	0.2513
6.973	0.100	Max.	-2.0900	0.7814	-0.0702
		Min.	-2.4100	0.4516	-0.1811
		Dif.	0.3200	0.3298	0.1109
6.973	0.200	Max.	-2.0449	0.7778	-0.1289
		Min.	-2.3320	0.4474	-0.2519
		Dif.	0.2872	0.3304	0.1230
6.973	0.450	Max.	-1.9118	0.7662	-0.1977
		Min.	-2.1639	0.4343	-0.3349
		Dif.	0.2521	0.3319	0.1372
6.973	0.700	Max.	-1.7342	0.7333	-0.2720
		Min.	-2.0108	0.3960	-0.4257
		Dif.	0.2765	0.3373	0.1537
6.973	0.950	Max.	-1.6239	0.5907	-0.3931
		Min.	-1.9447	0.2240	-0.5772
		Dif.	0.3208	0.3668	0.1841
6.973	1.200	Max.	-1.4781	0.4809	-0.4655
		Min.	-1.8335	0.0918	-0.6699
		Dif.	0.3553	0.3891	0.2044
6.973	1.450	Max.	-1.3962	0.3477	-0.5460
		Min.	-1.8022	-0.0701	-0.7761
		Dif.	0.4060	0.4178	0.2301
6.973	1.700	Max.	-1.3553	0.1582	-0.6193
		Min.	-1.8223	-0.3011	-0.8742
		Dif.	0.4670	0.4593	0.2549



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
6.973	1.740	Max.	-1.3500	0.0509	-0.6402
		Min.	-1.8271	-0.4322	-0.9022
		Dif.	0.4771	0.4831	0.2620
7.223	0.100	Max.	-2.0440	0.8549	-0.0837
		Min.	-2.3722	0.5387	-0.1952
		Dif.	0.3283	0.3162	0.1115
7.223	0.200	Max.	-1.9896	0.8536	-0.1446
		Min.	-2.2863	0.5374	-0.2685
		Dif.	0.2967	0.3163	0.1239
7.223	0.450	Max.	-1.8538	0.8348	-0.2306
		Min.	-2.0774	0.5154	-0.3722
		Dif.	0.2236	0.3193	0.1416
7.223	0.700	Max.	-1.6762	0.8022	-0.3045
		Min.	-1.9243	0.4768	-0.4635
		Dif.	0.2481	0.3254	0.1590
7.223	0.950	Max.	-1.5080	0.7395	-0.3781
		Min.	-1.7820	0.4017	-0.5550
		Dif.	0.2740	0.3377	0.1769
7.223	1.200	Max.	-1.3631	0.6294	-0.4517
		Min.	-1.6698	0.2698	-0.6466
		Dif.	0.3067	0.3596	0.1949
7.223	1.450	Max.	-1.2554	0.4420	-0.5510
		Min.	-1.6046	0.0431	-0.7769
		Dif.	0.3493	0.3988	0.2259
7.223	1.700	Max.	-1.1935	0.2408	-0.6337
		Min.	-1.5965	-0.2017	-0.8877
		Dif.	0.4030	0.4426	0.2540
7.223	1.740	Max.	-1.1836	0.1137	-0.6475
		Min.	-1.5951	-0.3570	-0.9073
		Dif.	0.4115	0.4707	0.2598
7.473	0.100	Max.	-1.9960	0.9227	-0.0919
		Min.	-2.3327	0.6170	-0.2024
		Dif.	0.3367	0.3057	0.1105
7.473	0.200	Max.	-1.9335	0.9229	-0.1418
		Min.	-2.2398	0.6174	-0.2620
		Dif.	0.3062	0.3055	0.1202
7.473	0.450	Max.	-1.7791	0.9118	-0.2003
		Min.	-2.0090	0.6048	-0.3316
		Dif.	0.2299	0.3070	0.1313
7.473	0.700	Max.	-1.6192	0.8792	-0.2742
		Min.	-1.8402	0.5662	-0.4229
		Dif.	0.2210	0.3131	0.1488
7.473	0.950	Max.	-1.3885	0.7678	-0.3820
		Min.	-1.6189	0.4350	-0.5545
		Dif.	0.2304	0.3328	0.1724
7.473	1.200	Max.	-1.2446	0.6578	-0.4556
		Min.	-1.5058	0.3031	-0.6461
		Dif.	0.2612	0.3547	0.1905
7.473	1.450	Max.	-1.1186	0.5340	-0.5258
		Min.	-1.4141	0.1536	-0.7374
		Dif.	0.2954	0.3803	0.2116
7.473	1.700	Max.	-1.0333	0.3243	-0.6014
		Min.	-1.3742	-0.1012	-0.8395
		Dif.	0.3409	0.4255	0.2382
7.473	1.740	Max.	-1.0170	0.1562	-0.6131
		Min.	-1.3643	-0.3064	-0.8569
		Dif.	0.3473	0.4626	0.2439



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
7.723	0.100	Max.	-1.9481	0.9801	-0.0955
		Min.	-2.2931	0.6830	-0.2037
		Dif.	0.3450	0.2971	0.1083
7.723	0.200	Max.	-1.8791	0.9807	-0.1382
		Min.	-2.1944	0.6840	-0.2540
		Dif.	0.3154	0.2966	0.1157
7.723	0.450	Max.	-1.7080	0.9738	-0.1894
		Min.	-1.9493	0.6768	-0.3141
		Dif.	0.2413	0.2970	0.1247
7.723	0.700	Max.	-1.5174	0.9601	-0.2279
		Min.	-1.7015	0.6624	-0.3594
		Dif.	0.1841	0.2977	0.1315
7.723	0.950	Max.	-1.3326	0.8402	-0.3509
		Min.	-1.5380	0.5199	-0.5117
		Dif.	0.2054	0.3204	0.1608
7.723	1.200	Max.	-1.1350	0.7332	-0.3893
		Min.	-1.3570	0.3930	-0.5571
		Dif.	0.2221	0.3402	0.1678
7.723	1.450	Max.	-0.9916	0.6143	-0.4623
		Min.	-1.2398	0.2506	-0.6473
		Dif.	0.2483	0.3637	0.1850
7.723	1.700	Max.	-0.8879	0.4178	-0.5272
		Min.	-1.1729	0.0128	-0.7352
		Dif.	0.2850	0.4049	0.2079
7.723	1.740	Max.	-0.8733	0.3153	-0.5237
		Min.	-1.1647	-0.1119	-0.7341
		Dif.	0.2914	0.4272	0.2104
7.973	0.100	Max.	-1.9014	1.0281	-0.0951
		Min.	-2.2543	0.7378	-0.2000
		Dif.	0.3529	0.2902	0.1049
7.973	0.200	Max.	-1.8266	1.0306	-0.1305
		Min.	-2.1506	0.7413	-0.2407
		Dif.	0.3240	0.2893	0.1102
7.973	0.450	Max.	-1.6399	1.0266	-0.1791
		Min.	-1.8920	0.7385	-0.2965
		Dif.	0.2520	0.2881	0.1174
7.973	0.700	Max.	-1.4560	1.0129	-0.2176
		Min.	-1.6360	0.7241	-0.3419
		Dif.	0.1801	0.2888	0.1242
7.973	0.950	Max.	-1.2453	0.9597	-0.2561
		Min.	-1.4187	0.6619	-0.3872
		Dif.	0.1734	0.2978	0.1311
7.973	1.200	Max.	-1.0477	0.8527	-0.2946
		Min.	-1.2377	0.5351	-0.4326
		Dif.	0.1900	0.3176	0.1380
7.973	1.450	Max.	-0.8840	0.6871	-0.3464
		Min.	-1.0953	0.3382	-0.4936
		Dif.	0.2113	0.3489	0.1472
7.973	1.700	Max.	-0.7637	0.4594	-0.3868
		Min.	-1.0019	0.0641	-0.5438
		Dif.	0.2382	0.3953	0.1570
7.973	1.740	Max.	-0.7335	0.2036	-0.3725
		Min.	-0.9726	-0.2479	-0.5294
		Dif.	0.2391	0.4515	0.1569
8.223	0.100	Max.	-1.8575	1.0624	-0.0913
		Min.	-2.2177	0.7763	-0.1918
		Dif.	0.3602	0.2860	0.1005



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.223	0.200	Max.	-1.7788	1.0642	-0.1132
		Min.	-2.1106	0.7790	-0.2159
		Dif.	0.3318	0.2852	0.1027
8.223	0.450	Max.	-1.5833	1.0571	-0.1365
		Min.	-1.8440	0.7716	-0.2408
		Dif.	0.2607	0.2855	0.1043
8.223	0.700	Max.	-1.3993	1.0434	-0.1752
		Min.	-1.5881	0.7572	-0.2859
		Dif.	0.1888	0.2862	0.1107
8.223	0.950	Max.	-1.1768	0.9311	-0.1787
		Min.	-1.3237	0.6264	-0.2831
		Dif.	0.1469	0.3047	0.1044
8.223	1.200	Max.	-0.9792	0.8240	-0.2172
		Min.	-1.1427	0.4995	-0.3285
		Dif.	0.1636	0.3245	0.1113
8.223	1.450	Max.	-0.8124	0.7112	-0.2273
		Min.	-0.9973	0.3658	-0.3390
		Dif.	0.1849	0.3454	0.1117
8.223	1.700	Max.	-0.6862	0.5309	-0.2489
		Min.	-0.8970	0.1484	-0.3649
		Dif.	0.2108	0.3825	0.1160
8.223	1.715	Max.	-0.6740	0.4527	-0.2715
		Min.	-0.8914	0.0461	-0.3935
		Dif.	0.2175	0.4066	0.1220
8.473	0.100	Max.	-1.8175	1.0824	-0.0850
		Min.	-2.1843	0.7976	-0.1805
		Dif.	0.3669	0.2848	0.0955
8.473	0.200	Max.	-1.7367	1.0834	-0.0966
		Min.	-2.0753	0.7993	-0.1914
		Dif.	0.3386	0.2841	0.0948
8.473	0.450	Max.	-1.5365	1.0749	-0.1095
		Min.	-1.8043	0.7902	-0.2032
		Dif.	0.2677	0.2847	0.0938
8.473	0.700	Max.	-1.3399	1.0523	-0.0995
		Min.	-1.5362	0.7655	-0.1865
		Dif.	0.1963	0.2868	0.0870
8.473	0.950	Max.	-1.1410	0.9467	-0.1298
		Min.	-1.2692	0.6426	-0.2181
		Dif.	0.1282	0.3041	0.0883
8.473	1.200	Max.	-0.9360	0.8343	-0.1183
		Min.	-1.0784	0.5096	-0.2029
		Dif.	0.1424	0.3247	0.0845
8.473	1.450	Max.	-0.7675	0.7224	-0.1227
		Min.	-0.9302	0.3774	-0.2077
		Dif.	0.1628	0.3450	0.0850
8.473	1.700	Max.	-0.6373	0.5413	-0.1278
		Min.	-0.8243	0.1571	-0.2116
		Dif.	0.1870	0.3842	0.0838
8.473	1.740	Max.	-0.6128	0.4052	-0.1627
		Min.	-0.8026	-0.0106	-0.2510
		Dif.	0.1898	0.4158	0.0883
8.723	0.100	Max.	-1.7817	1.0899	-0.0771
		Min.	-2.1546	0.8035	-0.1671
		Dif.	0.3729	0.2864	0.0900
8.723	0.200	Max.	-1.7005	1.0909	-0.0782
		Min.	-2.0449	0.8051	-0.1646
		Dif.	0.3444	0.2858	0.0864



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
8.723	0.450	Max.	-1.4985	1.0800	-0.0763
		Min.	-1.7718	0.7942	-0.1566
		Dif.	0.2733	0.2858	0.0803
8.723	0.700	Max.	-1.3013	1.0575	-0.0663
		Min.	-1.5045	0.7695	-0.1398
		Dif.	0.2033	0.2880	0.0735
8.723	0.950	Max.	-1.1117	0.9982	-0.0564
		Min.	-1.2443	0.7001	-0.1231
		Dif.	0.1326	0.2981	0.0668
8.723	1.200	Max.	-0.9146	0.8859	-0.0447
		Min.	-1.0459	0.5671	-0.1081
		Dif.	0.1313	0.3188	0.0634
8.723	1.450	Max.	-0.7461	0.7074	-0.0185
		Min.	-0.8984	0.3550	-0.0724
		Dif.	0.1523	0.3525	0.0540
8.723	1.700	Max.	-0.6229	0.5065	0.0090
		Min.	-0.8020	0.1100	-0.0315
		Dif.	0.1792	0.3964	0.0404
8.723	1.740	Max.	-0.6006	0.3518	-0.0059
		Min.	-0.7827	-0.0793	-0.0447
		Dif.	0.1821	0.4311	0.0388
8.973	0.100	Max.	-1.7462	1.0856	-0.0685
		Min.	-2.1327	0.7953	-0.1528
		Dif.	0.3865	0.2904	0.0843
8.973	0.200	Max.	-1.6660	1.0846	-0.0627
		Min.	-2.0239	0.7944	-0.1418
		Dif.	0.3579	0.2902	0.0792
8.973	0.450	Max.	-1.4673	1.0745	-0.0531
		Min.	-1.7538	0.7834	-0.1254
		Dif.	0.2865	0.2911	0.0722
8.973	0.700	Max.	-1.2699	1.0521	-0.0432
		Min.	-1.4864	0.7587	-0.1086
		Dif.	0.2166	0.2934	0.0655
8.973	0.950	Max.	-1.0970	0.9093	0.0068
		Min.	-1.2365	0.5895	-0.0381
		Dif.	0.1394	0.3198	0.0449
8.973	1.200	Max.	-0.9046	0.7971	0.0184
		Min.	-1.0338	0.4564	-0.0232
		Dif.	0.1292	0.3407	0.0416
8.973	1.450	Max.	-0.7491	0.6662	0.0607
		Min.	-0.9016	0.2992	0.0260
		Dif.	0.1525	0.3671	0.0347
8.973	1.700	Max.	-0.6371	0.4690	0.1130
		Min.	-0.8213	0.0589	0.0639
		Dif.	0.1842	0.4101	0.0491
8.973	1.740	Max.	-0.6220	0.3732	0.1181
		Min.	-0.8117	-0.0581	0.0654
		Dif.	0.1897	0.4313	0.0527
9.223	0.100	Max.	-1.7133	1.0752	-0.0597
		Min.	-2.1155	0.7797	-0.1382
		Dif.	0.4022	0.2955	0.0785
9.223	0.200	Max.	-1.6348	1.0727	-0.0506
		Min.	-2.0077	0.7771	-0.1228
		Dif.	0.3730	0.2956	0.0722
9.223	0.450	Max.	-1.4412	1.0580	-0.0372
		Min.	-1.7407	0.7602	-0.1014
		Dif.	0.2995	0.2978	0.0642



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.223	0.700	Max.	-1.2674	1.0115	-0.0092
		Min.	-1.4889	0.7054	-0.0611
		Dif.	0.2215	0.3061	0.0519
9.223	0.950	Max.	-1.0703	0.8841	0.0394
		Min.	-1.2224	0.5554	0.0074
		Dif.	0.1521	0.3287	0.0321
9.223	1.200	Max.	-0.9119	0.7636	0.0749
		Min.	-1.0421	0.4111	0.0405
		Dif.	0.1302	0.3526	0.0344
9.223	1.450	Max.	-0.7650	0.6279	0.1190
		Min.	-0.9216	0.2466	0.0741
		Dif.	0.1565	0.3813	0.0449
9.223	1.700	Max.	-0.6628	0.3920	0.1764
		Min.	-0.8556	-0.0408	0.1168
		Dif.	0.1927	0.4328	0.0596
9.223	1.740	Max.	-0.6402	0.1627	0.1809
		Min.	-0.8371	-0.3206	0.1185
		Dif.	0.1969	0.4833	0.0624
9.473	0.100	Max.	-1.6854	1.0603	-0.0510
		Min.	-2.1001	0.7586	-0.1237
		Dif.	0.4147	0.3017	0.0728
9.473	0.200	Max.	-1.6092	1.0565	-0.0368
		Min.	-1.9938	0.7543	-0.1016
		Dif.	0.3846	0.3022	0.0648
9.473	0.450	Max.	-1.4224	1.0266	-0.0135
		Min.	-1.7312	0.7196	-0.0659
		Dif.	0.3088	0.3070	0.0525
9.473	0.700	Max.	-1.2485	0.9802	0.0146
		Min.	-1.4795	0.6648	-0.0256
		Dif.	0.2311	0.3154	0.0402
9.473	0.950	Max.	-1.0892	0.9069	0.0431
		Min.	-1.2402	0.5770	0.0145
		Dif.	0.1510	0.3299	0.0286
9.473	1.200	Max.	-0.9282	0.7867	0.0799
		Min.	-1.0626	0.4325	0.0461
		Dif.	0.1344	0.3543	0.0338
9.473	1.450	Max.	-0.7902	0.5798	0.1420
		Min.	-0.9539	0.1819	0.0948
		Dif.	0.1638	0.3979	0.0473
9.473	1.700	Max.	-0.7025	0.3699	0.1959
		Min.	-0.9086	-0.0733	0.1355
		Dif.	0.2061	0.4433	0.0605
9.473	1.740	Max.	-0.6905	0.2758	0.1958
		Min.	-0.9067	-0.1880	0.1341
		Dif.	0.2162	0.4638	0.0617
9.723	0.100	Max.	-1.6613	1.0432	-0.0428
		Min.	-2.0875	0.7324	-0.1101
		Dif.	0.4262	0.3108	0.0673
9.723	0.200	Max.	-1.5884	1.0378	-0.0304
		Min.	-1.9834	0.7261	-0.0904
		Dif.	0.3950	0.3117	0.0599
9.723	0.450	Max.	-1.4091	1.0214	-0.0151
		Min.	-1.7259	0.7071	-0.0660
		Dif.	0.3167	0.3143	0.0509
9.723	0.700	Max.	-1.2350	0.9749	0.0129
		Min.	-1.4743	0.6522	-0.0257
		Dif.	0.2393	0.3227	0.0386



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
9.723	0.950	Max.	-1.1046	0.8075	0.0433
		Min.	-1.2548	0.4508	0.0160
		Dif.	0.1502	0.3566	0.0273
9.723	1.200	Max.	-0.9412	0.6873	0.0799
		Min.	-1.0796	0.3063	0.0477
		Dif.	0.1384	0.3810	0.0321
9.723	1.450	Max.	-0.8168	0.5403	0.1282
		Min.	-0.9884	0.1280	0.0862
		Dif.	0.1716	0.4123	0.0420
9.723	1.700	Max.	-0.7355	0.3245	0.1667
		Min.	-0.9553	-0.1343	0.1155
		Dif.	0.2198	0.4588	0.0512
9.723	1.740	Max.	-0.7196	0.1646	0.1729
		Min.	-0.9488	-0.3289	0.1193
		Dif.	0.2291	0.4935	0.0536
9.973	0.100	Max.	-1.6396	1.0313	-0.0351
		Min.	-2.0766	0.7129	-0.0971
		Dif.	0.4370	0.3184	0.0620
9.973	0.200	Max.	-1.5686	1.0249	-0.0291
		Min.	-1.9738	0.7053	-0.0851
		Dif.	0.4051	0.3196	0.0560
9.973	0.450	Max.	-1.3949	1.0048	-0.0189
		Min.	-1.7198	0.6817	-0.0671
		Dif.	0.3248	0.3231	0.0482
9.973	0.700	Max.	-1.2441	0.9406	-0.0105
		Min.	-1.4836	0.6046	-0.0514
		Dif.	0.2394	0.3361	0.0409
9.973	0.950	Max.	-1.0907	0.7821	0.0500
		Min.	-1.2490	0.4142	0.0219
		Dif.	0.1583	0.3679	0.0281
9.973	1.200	Max.	-0.9537	0.6596	0.0616
		Min.	-1.0965	0.2672	0.0343
		Dif.	0.1428	0.3924	0.0272
9.973	1.450	Max.	-0.8369	0.5107	0.0832
		Min.	-1.0149	0.0868	0.0528
		Dif.	0.1780	0.4239	0.0304
9.973	1.700	Max.	-0.7624	0.3001	0.1145
		Min.	-0.9933	-0.1690	0.0775
		Dif.	0.2309	0.4691	0.0370
9.973	1.740	Max.	-0.7493	0.1626	0.1162
		Min.	-0.9905	-0.3362	0.0784
		Dif.	0.2412	0.4988	0.0378
10.223	0.100	Max.	-1.6199	1.0263	-0.0274
		Min.	-2.0671	0.7019	-0.0842
		Dif.	0.4472	0.3244	0.0568
10.223	0.200	Max.	-1.5499	1.0185	-0.0247
		Min.	-1.9645	0.6926	-0.0760
		Dif.	0.4147	0.3259	0.0513
10.223	0.450	Max.	-1.3804	0.9740	-0.0191
		Min.	-1.7130	0.6394	-0.0622
		Dif.	0.3325	0.3345	0.0430
10.223	0.700	Max.	-1.2295	0.9098	-0.0108
		Min.	-1.4769	0.5623	-0.0465
		Dif.	0.2474	0.3475	0.0357
10.223	0.950	Max.	-1.0980	0.8276	-0.0024
		Min.	-1.2570	0.4637	-0.0308
		Dif.	0.1590	0.3639	0.0284



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.223	1.200	Max.	-0.9599	0.7051	0.0060
		Min.	-1.1058	0.3166	-0.0151
		Dif.	0.1459	0.3885	0.0212
10.223	1.450	Max.	-0.8449	0.4933	0.0192
		Min.	-1.0262	0.0607	0.0042
		Dif.	0.1813	0.4326	0.0150
10.223	1.700	Max.	-0.7763	0.2832	0.0350
		Min.	-1.0140	-0.1941	0.0176
		Dif.	0.2376	0.4773	0.0174
10.223	1.740	Max.	-0.7664	0.1757	0.0412
		Min.	-1.0155	-0.3246	0.0230
		Dif.	0.2491	0.5004	0.0182
10.473	0.100	Max.	-1.6029	1.0249	-0.0195
		Min.	-2.0594	0.6957	-0.0713
		Dif.	0.4565	0.3292	0.0518
10.473	0.200	Max.	-1.5340	1.0171	-0.0226
		Min.	-1.9575	0.6864	-0.0707
		Dif.	0.4234	0.3307	0.0480
10.473	0.450	Max.	-1.3656	0.9961	-0.0275
		Min.	-1.7058	0.6616	-0.0712
		Dif.	0.3402	0.3345	0.0438
10.473	0.700	Max.	-1.2145	0.9319	-0.0191
		Min.	-1.4698	0.5845	-0.0555
		Dif.	0.2553	0.3474	0.0365
10.473	0.950	Max.	-1.0869	0.7601	-0.0503
		Min.	-1.2500	0.3781	-0.0863
		Dif.	0.1631	0.3820	0.0360
10.473	1.200	Max.	-0.9510	0.6376	-0.0419
		Min.	-1.0965	0.2310	-0.0706
		Dif.	0.1455	0.4066	0.0287
10.473	1.450	Max.	-0.8412	0.4879	-0.0358
		Min.	-1.0225	0.0497	-0.0583
		Dif.	0.1814	0.4382	0.0225
10.473	1.700	Max.	-0.7723	0.2602	-0.0357
		Min.	-1.0105	-0.2263	-0.0549
		Dif.	0.2382	0.4865	0.0193
10.473	1.740	Max.	-0.7568	0.0642	-0.0386
		Min.	-1.0039	-0.4643	-0.0575
		Dif.	0.2471	0.5285	0.0190
10.723	0.100	Max.	-1.5874	1.0345	-0.0111
		Min.	-2.0528	0.7036	-0.0580
		Dif.	0.4654	0.3309	0.0469
10.723	0.200	Max.	-1.5178	1.0264	-0.0250
		Min.	-1.9500	0.6939	-0.0707
		Dif.	0.4322	0.3325	0.0457
10.723	0.450	Max.	-1.3476	1.0050	-0.0388
		Min.	-1.6961	0.6687	-0.0826
		Dif.	0.3485	0.3363	0.0437
10.723	0.700	Max.	-1.1918	0.9385	-0.0628
		Min.	-1.4535	0.5887	-0.1078
		Dif.	0.2617	0.3497	0.0450
10.723	0.950	Max.	-1.0681	0.7671	-0.0561
		Min.	-1.2398	0.3827	-0.0909
		Dif.	0.1717	0.3844	0.0349
10.723	1.200	Max.	-0.9332	0.6432	-0.0800
		Min.	-1.0759	0.2342	-0.1161
		Dif.	0.1428	0.4090	0.0361



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
10.723	1.450	Max.	-0.8237	0.4897	-0.0979
		Min.	-1.0014	0.0485	-0.1340
		Dif.	0.1777	0.4413	0.0361
10.723	1.700	Max.	-0.7555	0.2855	-0.1085
		Min.	-0.9903	-0.1989	-0.1442
		Dif.	0.2347	0.4845	0.0357
10.723	1.740	Max.	-0.7476	0.1940	-0.1133
		Min.	-0.9930	-0.3099	-0.1500
		Dif.	0.2454	0.5039	0.0367
10.973	0.100	Max.	-1.5737	1.0558	-0.0012
		Min.	-2.0474	0.7262	-0.0431
		Dif.	0.4737	0.3297	0.0419
10.973	0.200	Max.	-1.5013	1.0475	-0.0223
		Min.	-1.9420	0.7162	-0.0646
		Dif.	0.4407	0.3313	0.0423
10.973	0.450	Max.	-1.3262	1.0011	-0.0518
		Min.	-1.6834	0.6607	-0.0946
		Dif.	0.3572	0.3403	0.0428
10.973	0.700	Max.	-1.1703	0.9345	-0.0758
		Min.	-1.4408	0.5808	-0.1198
		Dif.	0.2705	0.3538	0.0440
10.973	0.950	Max.	-1.0345	0.8507	-0.0998
		Min.	-1.2150	0.4802	-0.1450
		Dif.	0.1805	0.3705	0.0452
10.973	1.200	Max.	-0.9063	0.7268	-0.1238
		Min.	-1.0445	0.3317	-0.1701
		Dif.	0.1382	0.3951	0.0464
10.973	1.450	Max.	-0.7886	0.5146	-0.1543
		Min.	-0.9581	0.0755	-0.2030
		Dif.	0.1695	0.4391	0.0487
10.973	1.700	Max.	-0.7160	0.2876	-0.1796
		Min.	-0.9403	-0.1995	-0.2315
		Dif.	0.2243	0.4870	0.0518
10.973	1.740	Max.	-0.7013	0.1116	-0.1839
		Min.	-0.9343	-0.4128	-0.2393
		Dif.	0.2330	0.5244	0.0554
11.223	0.100	Max.	-1.5633	1.0818	0.0107
		Min.	-2.0445	0.7548	-0.0261
		Dif.	0.4812	0.3269	0.0368
11.223	0.200	Max.	-1.4884	1.0746	-0.0139
		Min.	-1.9367	0.7463	-0.0521
		Dif.	0.4483	0.3283	0.0382
11.223	0.450	Max.	-1.3046	1.0533	-0.0447
		Min.	-1.6704	0.7212	-0.0852
		Dif.	0.3658	0.3321	0.0404
11.223	0.700	Max.	-1.1487	0.9867	-0.0687
		Min.	-1.4280	0.6412	-0.1104
		Dif.	0.2793	0.3455	0.0416
11.223	0.950	Max.	-0.9821	0.8188	-0.1531
		Min.	-1.1750	0.4398	-0.2076
		Dif.	0.1929	0.3790	0.0545
11.223	1.200	Max.	-0.8641	0.6949	-0.1769
		Min.	-0.9942	0.2912	-0.2330
		Dif.	0.1301	0.4037	0.0561
11.223	1.450	Max.	-0.7436	0.5426	-0.2041
		Min.	-0.9023	0.1070	-0.2637
		Dif.	0.1587	0.4356	0.0596



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.223	1.700	Max.	-0.6641	0.3306	-0.2366
		Min.	-0.8739	-0.1497	-0.3043
		Dif.	0.2097	0.4803	0.0677
11.223	1.740	Max.	-0.6520	0.2051	-0.2459
		Min.	-0.8707	-0.3018	-0.3212
		Dif.	0.2187	0.5069	0.0752
11.473	0.100	Max.	-1.5562	1.1161	0.0287
		Min.	-2.0440	0.7942	-0.0106
		Dif.	0.4878	0.3219	0.0393
11.473	0.200	Max.	-1.4774	1.1092	-0.0084
		Min.	-1.9329	0.7861	-0.0431
		Dif.	0.4555	0.3231	0.0347
11.473	0.450	Max.	-1.2836	1.0904	-0.0461
		Min.	-1.6579	0.7642	-0.0847
		Dif.	0.3743	0.3263	0.0386
11.473	0.700	Max.	-1.0926	1.0350	-0.0931
		Min.	-1.3850	0.6983	-0.1384
		Dif.	0.2924	0.3367	0.0453
11.473	0.950	Max.	-0.9588	0.8624	-0.1474
		Min.	-1.1608	0.4910	-0.1998
		Dif.	0.2020	0.3714	0.0523
11.473	1.200	Max.	-0.8146	0.7379	-0.1938
		Min.	-0.9351	0.3415	-0.2542
		Dif.	0.1205	0.3964	0.0605
11.473	1.450	Max.	-0.6849	0.5851	-0.2469
		Min.	-0.8295	0.1568	-0.3166
		Dif.	0.1446	0.4284	0.0697
11.473	1.700	Max.	-0.5957	0.3710	-0.2873
		Min.	-0.7881	-0.1026	-0.3714
		Dif.	0.1924	0.4736	0.0841
11.473	1.740	Max.	-0.5834	0.2449	-0.2896
		Min.	-0.7817	-0.2555	-0.3806
		Dif.	0.1983	0.5004	0.0910
11.723	0.100	Max.	-1.5530	1.1593	0.0505
		Min.	-2.0465	0.8446	0.0066
		Dif.	0.4934	0.3147	0.0439
11.723	0.200	Max.	-1.4685	1.1534	0.0033
		Min.	-1.9304	0.8377	-0.0275
		Dif.	0.4620	0.3157	0.0308
11.723	0.450	Max.	-1.2618	1.1161	-0.0519
		Min.	-1.6444	0.7938	-0.0884
		Dif.	0.3826	0.3223	0.0365
11.723	0.700	Max.	-1.0707	1.0607	-0.0984
		Min.	-1.3716	0.7280	-0.1426
		Dif.	0.3009	0.3327	0.0443
11.723	0.950	Max.	-0.8967	0.9815	-0.1447
		Min.	-1.1132	0.6332	-0.1971
		Dif.	0.2165	0.3483	0.0524
11.723	1.200	Max.	-0.7562	0.8570	-0.1910
		Min.	-0.8826	0.4837	-0.2515
		Dif.	0.1264	0.3732	0.0605
11.723	1.450	Max.	-0.6174	0.6450	-0.2563
		Min.	-0.7463	0.2278	-0.3304
		Dif.	0.1289	0.4172	0.0741
11.723	1.700	Max.	-0.5171	0.4072	-0.3065
		Min.	-0.6865	-0.0605	-0.3993
		Dif.	0.1694	0.4677	0.0929



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
11.723	1.740	Max.	-0.4989	0.2191	-0.3136
		Min.	-0.6720	-0.2886	-0.4149
		Dif.	0.1731	0.5077	0.1013
11.973	0.100	Max.	-1.5559	1.2027	0.0759
		Min.	-2.0536	0.8955	0.0267
		Dif.	0.4977	0.3073	0.0492
11.973	0.200	Max.	-1.4663	1.1980	0.0318
		Min.	-1.9333	0.8900	-0.0049
		Dif.	0.4669	0.3080	0.0367
11.973	0.450	Max.	-1.2456	1.1793	-0.0183
		Min.	-1.6353	0.8683	-0.0467
		Dif.	0.3897	0.3110	0.0284
11.973	0.700	Max.	-1.0544	1.1239	-0.0648
		Min.	-1.3626	0.8024	-0.1010
		Dif.	0.3082	0.3214	0.0362
11.973	0.950	Max.	-0.8297	0.9741	-0.1534
		Min.	-1.0614	0.6235	-0.2059
		Dif.	0.2317	0.3506	0.0525
11.973	1.200	Max.	-0.6891	0.8496	-0.1997
		Min.	-0.8309	0.4740	-0.2603
		Dif.	0.1418	0.3756	0.0606
11.973	1.450	Max.	-0.5526	0.7029	-0.2479
		Min.	-0.6671	0.2966	-0.3221
		Dif.	0.1146	0.4063	0.0742
11.973	1.700	Max.	-0.4394	0.4816	-0.3032
		Min.	-0.5858	0.0281	-0.3981
		Dif.	0.1463	0.4535	0.0949
11.973	1.740	Max.	-0.4253	0.3722	-0.3069
		Min.	-0.5757	-0.1046	-0.4096
		Dif.	0.1504	0.4769	0.1027
12.223	0.100	Max.	-1.5654	1.2473	0.1046
		Min.	-2.0659	0.9478	0.0493
		Dif.	0.5005	0.2995	0.0552
12.223	0.200	Max.	-1.4707	1.2426	0.0575
		Min.	-1.9412	0.9425	0.0158
		Dif.	0.4705	0.3001	0.0418
12.223	0.450	Max.	-1.2370	1.2263	0.0027
		Min.	-1.6322	0.9238	-0.0233
		Dif.	0.3953	0.3026	0.0260
12.223	0.700	Max.	-1.0014	1.1809	-0.0405
		Min.	-1.3217	0.8708	-0.0693
		Dif.	0.3203	0.3101	0.0288
12.223	0.950	Max.	-0.8182	1.0292	-0.1176
		Min.	-1.0561	0.6894	-0.1605
		Dif.	0.2380	0.3398	0.0430
12.223	1.200	Max.	-0.6297	0.9051	-0.1582
		Min.	-0.7858	0.5401	-0.2088
		Dif.	0.1561	0.3649	0.0505
12.223	1.450	Max.	-0.4899	0.7678	-0.2097
		Min.	-0.5920	0.3740	-0.2755
		Dif.	0.1021	0.3939	0.0658
12.223	1.700	Max.	-0.3625	0.5204	-0.2567
		Min.	-0.4834	0.0727	-0.3402
		Dif.	0.1209	0.4477	0.0835
12.223	1.740	Max.	-0.3323	0.2548	-0.2639
		Min.	-0.4543	-0.2493	-0.3575
		Dif.	0.1219	0.5041	0.0935



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.473	0.100	Max.	-1.5823	1.2941	0.1367
		Min.	-2.0839	1.0026	0.0746
		Dif.	0.5016	0.2915	0.0620
12.473	0.200	Max.	-1.4816	1.2905	0.0884
		Min.	-1.9541	0.9987	0.0412
		Dif.	0.4725	0.2918	0.0473
12.473	0.450	Max.	-1.2335	1.2612	0.0212
		Min.	-1.6329	0.9651	-0.0055
		Dif.	0.3994	0.2961	0.0267
12.473	0.700	Max.	-0.9978	1.2158	-0.0254
		Min.	-1.3225	0.9121	-0.0482
		Dif.	0.3247	0.3036	0.0229
12.473	0.950	Max.	-0.7765	1.1411	-0.0665
		Min.	-1.0243	0.8232	-0.0961
		Dif.	0.2478	0.3180	0.0296
12.473	1.200	Max.	-0.5883	1.0170	-0.1069
		Min.	-0.7537	0.6739	-0.1446
		Dif.	0.1654	0.3431	0.0377
12.473	1.450	Max.	-0.4420	0.8129	-0.1521
		Min.	-0.5354	0.4272	-0.2055
		Dif.	0.0935	0.3857	0.0534
12.473	1.700	Max.	-0.3068	0.6139	-0.1917
		Min.	-0.4150	0.1816	-0.2626
		Dif.	0.1082	0.4323	0.0709
12.473	1.715	Max.	-0.2951	0.5398	-0.2115
		Min.	-0.4091	0.0824	-0.2928
		Dif.	0.1140	0.4573	0.0813
12.723	0.100	Max.	-1.6082	1.3365	0.1720
		Min.	-2.1092	1.0519	0.1024
		Dif.	0.5010	0.2846	0.0696
12.723	0.200	Max.	-1.5026	1.3333	0.1311
		Min.	-1.9753	1.0484	0.0748
		Dif.	0.4726	0.2849	0.0562
12.723	0.450	Max.	-1.2417	1.3170	0.0822
		Min.	-1.6430	1.0297	0.0421
		Dif.	0.4013	0.2873	0.0401
12.723	0.700	Max.	-1.0060	1.2716	0.0299
		Min.	-1.3326	0.9768	0.0053
		Dif.	0.3266	0.2948	0.0246
12.723	0.950	Max.	-0.7424	1.1185	-0.0405
		Min.	-0.9982	0.7934	-0.0624
		Dif.	0.2558	0.3250	0.0219
12.723	1.200	Max.	-0.5543	0.9943	-0.0794
		Min.	-0.7276	0.6443	-0.1125
		Dif.	0.1734	0.3500	0.0330
12.723	1.450	Max.	-0.4088	0.8557	-0.1060
		Min.	-0.4927	0.4764	-0.1527
		Dif.	0.0839	0.3794	0.0466
12.723	1.700	Max.	-0.2639	0.6539	-0.1444
		Min.	-0.3534	0.2288	-0.2070
		Dif.	0.0895	0.4251	0.0626
12.723	1.740	Max.	-0.2385	0.5213	-0.1749
		Min.	-0.3300	0.0647	-0.2451
		Dif.	0.0915	0.4566	0.0702
12.973	0.100	Max.	-1.6436	1.3755	0.2100
		Min.	-2.1421	1.0969	0.1320
		Dif.	0.4985	0.2786	0.0780



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
12.973	0.200	Max.	-1.5336	1.3722	0.1708
		Min.	-2.0044	1.0933	0.1059
		Dif.	0.4707	0.2789	0.0649
12.973	0.450	Max.	-1.2617	1.3570	0.1244
		Min.	-1.6626	1.0758	0.0755
		Dif.	0.4009	0.2813	0.0490
12.973	0.700	Max.	-0.9902	1.3147	0.0844
		Min.	-1.3211	1.0259	0.0506
		Dif.	0.3309	0.2888	0.0338
12.973	0.950	Max.	-0.7592	1.1632	0.0088
		Min.	-1.0150	0.8450	-0.0011
		Dif.	0.2558	0.3181	0.0099
12.973	1.200	Max.	-0.5363	1.0329	-0.0195
		Min.	-0.7141	0.6880	-0.0376
		Dif.	0.1778	0.3449	0.0181
12.973	1.450	Max.	-0.3805	0.8905	-0.0515
		Min.	-0.4694	0.5151	-0.0831
		Dif.	0.0889	0.3754	0.0315
12.973	1.700	Max.	-0.2369	0.6696	-0.0725
		Min.	-0.3129	0.2454	-0.1125
		Dif.	0.0760	0.4242	0.0401
12.973	1.740	Max.	-0.2091	0.4936	-0.0904
		Min.	-0.2855	0.0325	-0.1343
		Dif.	0.0764	0.4611	0.0440
13.223	0.100	Max.	-1.6892	1.4122	0.2504
		Min.	-2.1830	1.1389	0.1633
		Dif.	0.4939	0.2734	0.0871
13.223	0.200	Max.	-1.5746	1.4099	0.2150
		Min.	-2.0412	1.1364	0.1407
		Dif.	0.4667	0.2735	0.0743
13.223	0.450	Max.	-1.2914	1.3838	0.1646
		Min.	-1.6897	1.1063	0.1088
		Dif.	0.3983	0.2775	0.0558
13.223	0.700	Max.	-1.0199	1.3414	0.1246
		Min.	-1.3482	1.0565	0.0839
		Dif.	0.3283	0.2849	0.0407
13.223	0.950	Max.	-0.7622	1.2655	0.0851
		Min.	-1.0184	0.9655	0.0586
		Dif.	0.2562	0.3000	0.0265
13.223	1.200	Max.	-0.5393	1.1352	0.0461
		Min.	-0.7175	0.8085	0.0327
		Dif.	0.1782	0.3267	0.0133
13.223	1.450	Max.	-0.3704	0.9176	0.0085
		Min.	-0.4613	0.5448	-0.0029
		Dif.	0.0909	0.3728	0.0113
13.223	1.700	Max.	-0.2276	0.6962	-0.0119
		Min.	-0.2986	0.2748	-0.0312
		Dif.	0.0710	0.4214	0.0193
13.223	1.740	Max.	-0.2063	0.5951	-0.0195
		Min.	-0.2781	0.1515	-0.0410
		Dif.	0.0717	0.4436	0.0215
13.473	0.100	Max.	-1.7460	1.4407	0.2924
		Min.	-2.2329	1.1708	0.1956
		Dif.	0.4869	0.2699	0.0968
13.473	0.200	Max.	-1.6283	1.4386	0.2675
		Min.	-2.0884	1.1686	0.1806
		Dif.	0.4601	0.2700	0.0869



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.473	0.450	Max.	-1.3370	1.4233	0.2370
		Min.	-1.7296	1.1509	0.1619
		Dif.	0.3926	0.2724	0.0751
13.473	0.700	Max.	-1.0655	1.3809	0.1970
		Min.	-1.3881	1.1012	0.1371
		Dif.	0.3226	0.2797	0.0599
13.473	0.950	Max.	-0.7768	1.2256	0.1452
		Min.	-1.0310	0.9145	0.1026
		Dif.	0.2542	0.3111	0.0425
13.473	1.200	Max.	-0.5539	1.0953	0.1059
		Min.	-0.7301	0.7576	0.0771
		Dif.	0.1762	0.3377	0.0288
13.473	1.450	Max.	-0.3808	0.9449	0.0877
		Min.	-0.4699	0.5751	0.0633
		Dif.	0.0891	0.3699	0.0245
13.473	1.700	Max.	-0.2282	0.6906	0.0639
		Min.	-0.2986	0.2652	0.0404
		Dif.	0.0704	0.4254	0.0235
13.473	1.740	Max.	-0.1964	0.4512	0.0544
		Min.	-0.2647	-0.0255	0.0304
		Dif.	0.0683	0.4767	0.0240
13.723	0.100	Max.	-1.8142	1.4621	0.3351
		Min.	-2.2920	1.1944	0.2282
		Dif.	0.4777	0.2677	0.1069
13.723	0.200	Max.	-1.6942	1.4603	0.3165
		Min.	-2.1453	1.1925	0.2172
		Dif.	0.4511	0.2678	0.0993
13.723	0.450	Max.	-1.3968	1.4466	0.2925
		Min.	-1.7810	1.1768	0.2030
		Dif.	0.3842	0.2699	0.0895
13.723	0.700	Max.	-1.1042	1.4111	0.2743
		Min.	-1.4205	1.1350	0.1919
		Dif.	0.3163	0.2761	0.0824
13.723	0.950	Max.	-0.8353	1.2518	0.2223
		Min.	-1.0813	0.9440	0.1612
		Dif.	0.2459	0.3078	0.0611
13.723	1.200	Max.	-0.5902	1.1185	0.2047
		Min.	-0.7605	0.7832	0.1495
		Dif.	0.1703	0.3353	0.0552
13.723	1.450	Max.	-0.4124	0.9628	0.1711
		Min.	-0.4959	0.5943	0.1257
		Dif.	0.0835	0.3685	0.0454
13.723	1.700	Max.	-0.2501	0.7389	0.1473
		Min.	-0.3273	0.3213	0.1071
		Dif.	0.0773	0.4176	0.0402
13.723	1.740	Max.	-0.2266	0.6287	0.1363
		Min.	-0.3042	0.1869	0.0978
		Dif.	0.0776	0.4418	0.0385
13.973	0.100	Max.	-1.8938	1.4766	0.3777
		Min.	-2.3601	1.2094	0.2605
		Dif.	0.4663	0.2672	0.1172
13.973	0.200	Max.	-1.7719	1.4761	0.3687
		Min.	-2.2117	1.2092	0.2567
		Dif.	0.4397	0.2670	0.1119
13.973	0.450	Max.	-1.4698	1.4559	0.3526
		Min.	-1.8429	1.1861	0.2487
		Dif.	0.3732	0.2698	0.1039



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
13.973	0.700	Max.	-1.1772	1.4203	0.3345
		Min.	-1.4825	1.1444	0.2375
		Dif.	0.3053	0.2759	0.0969
13.973	0.950	Max.	-0.8967	1.3459	0.3163
		Min.	-1.1323	1.0553	0.2263
		Dif.	0.2356	0.2907	0.0900
13.973	1.200	Max.	-0.6517	1.2126	0.2985
		Min.	-0.8115	0.8946	0.2148
		Dif.	0.1599	0.3180	0.0837
13.973	1.450	Max.	-0.4529	0.9913	0.2671
		Min.	-0.5463	0.6264	0.1945
		Dif.	0.0934	0.3649	0.0726
13.973	1.700	Max.	-0.2827	0.7538	0.2358
		Min.	-0.3710	0.3371	0.1754
		Dif.	0.0883	0.4167	0.0604
13.973	1.740	Max.	-0.2539	0.5867	0.2360
		Min.	-0.3408	0.1341	0.1784
		Dif.	0.0869	0.4526	0.0576
14.223	0.100	Max.	-1.9854	1.4788	0.4192
		Min.	-2.4379	1.2096	0.2917
		Dif.	0.4525	0.2692	0.1274
14.223	0.200	Max.	-1.8635	1.4783	0.4238
		Min.	-2.2893	1.2093	0.2980
		Dif.	0.4258	0.2690	0.1258
14.223	0.450	Max.	-1.5614	1.4654	0.4273
		Min.	-1.9200	1.1945	0.3033
		Dif.	0.3586	0.2709	0.1240
14.223	0.700	Max.	-1.2688	1.4297	0.4091
		Min.	-1.5596	1.1528	0.2921
		Dif.	0.2907	0.2769	0.1170
14.223	0.950	Max.	-0.9747	1.2901	0.4109
		Min.	-1.1969	0.9857	0.2937
		Dif.	0.2222	0.3044	0.1172
14.223	1.200	Max.	-0.7297	1.1567	0.3929
		Min.	-0.8761	0.8251	0.2823
		Dif.	0.1465	0.3317	0.1106
14.223	1.450	Max.	-0.5126	1.0104	0.3832
		Min.	-0.6281	0.6474	0.2785
		Dif.	0.1155	0.3630	0.1047
14.223	1.700	Max.	-0.3363	0.7813	0.3596
		Min.	-0.4430	0.3682	0.2670
		Dif.	0.1067	0.4131	0.0926
14.223	1.740	Max.	-0.3066	0.6159	0.3608
		Min.	-0.4112	0.1673	0.2730
		Dif.	0.1046	0.4486	0.0878
14.473	0.100	Max.	-2.0882	1.4697	0.4581
		Min.	-2.5247	1.1960	0.3208
		Dif.	0.4365	0.2737	0.1373
14.473	0.200	Max.	-1.9676	1.4700	0.4743
		Min.	-2.3770	1.1967	0.3354
		Dif.	0.4094	0.2733	0.1389
14.473	0.450	Max.	-1.6683	1.4592	0.4892
		Min.	-2.0095	1.1846	0.3491
		Dif.	0.3412	0.2745	0.1401
14.473	0.700	Max.	-1.3809	1.4354	0.5157
		Min.	-1.6519	1.1580	0.3706
		Dif.	0.2710	0.2774	0.1450



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.473	0.950	Max.	-1.0834	1.2871	0.4988
		Min.	-1.2878	0.9804	0.3598
		Dif.	0.2044	0.3067	0.1390
14.473	1.200	Max.	-0.8194	1.1626	0.5253
		Min.	-0.9848	0.8304	0.3813
		Dif.	0.1654	0.3322	0.1439
14.473	1.450	Max.	-0.5932	1.0223	0.5099
		Min.	-0.7390	0.6601	0.3710
		Dif.	0.1458	0.3623	0.1389
14.473	1.700	Max.	-0.4147	0.8071	0.5023
		Min.	-0.5487	0.3970	0.3721
		Dif.	0.1340	0.4100	0.1302
14.473	1.740	Max.	-0.3883	0.6949	0.5267
		Min.	-0.5204	0.2600	0.3978
		Dif.	0.1322	0.4349	0.1289
14.723	0.100	Max.	-2.2016	1.4483	0.4933
		Min.	-2.6201	1.1672	0.3469
		Dif.	0.4185	0.2812	0.1464
14.723	0.200	Max.	-2.0838	1.4497	0.5249
		Min.	-2.4744	1.1693	0.3735
		Dif.	0.3906	0.2804	0.1514
14.723	0.450	Max.	-1.7906	1.4384	0.5650
		Min.	-2.1115	1.1577	0.4071
		Dif.	0.3208	0.2807	0.1579
14.723	0.700	Max.	-1.4999	1.4146	0.5914
		Min.	-1.7602	1.1311	0.4286
		Dif.	0.2603	0.2835	0.1629
14.723	0.950	Max.	-1.2001	1.3493	0.6179
		Min.	-1.4305	1.0534	0.4500
		Dif.	0.2304	0.2959	0.1678
14.723	1.200	Max.	-0.9284	1.2247	0.6443
		Min.	-1.1330	0.9035	0.4715
		Dif.	0.2046	0.3212	0.1728
14.723	1.450	Max.	-0.6979	1.0269	0.6689
		Min.	-0.8827	0.6639	0.4913
		Dif.	0.1847	0.3630	0.1776
14.723	1.700	Max.	-0.5194	0.7825	0.6938
		Min.	-0.6905	0.3640	0.5145
		Dif.	0.1711	0.4185	0.1794
14.723	1.740	Max.	-0.4836	0.5536	0.7417
		Min.	-0.6501	0.0830	0.5581
		Dif.	0.1666	0.4706	0.1836
14.973	0.100	Max.	-2.3247	1.4126	0.5234
		Min.	-2.7234	1.1209	0.3688
		Dif.	0.3987	0.2917	0.1546
14.973	0.200	Max.	-2.2117	1.4128	0.5672
		Min.	-2.5814	1.1215	0.4050
		Dif.	0.3697	0.2913	0.1622
14.973	0.450	Max.	-1.9170	1.4027	0.6173
		Min.	-2.2465	1.1105	0.4462
		Dif.	0.3295	0.2923	0.1710
14.973	0.700	Max.	-1.6093	1.3789	0.6437
		Min.	-1.9085	1.0839	0.4677
		Dif.	0.2992	0.2950	0.1760
14.973	0.950	Max.	-1.3305	1.2524	0.7558
		Min.	-1.6058	0.9338	0.5590
		Dif.	0.2752	0.3186	0.1968



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
14.973	1.200	Max.	-1.0587	1.1278	0.7823
		Min.	-1.3083	0.7839	0.5805
		Dif.	0.2495	0.3439	0.2018
14.973	1.450	Max.	-0.8396	0.9961	0.8322
		Min.	-1.0727	0.6243	0.6215
		Dif.	0.2331	0.3718	0.2107
14.973	1.700	Max.	-0.6678	0.7756	0.8673
		Min.	-0.8896	0.3510	0.6504
		Dif.	0.2219	0.4246	0.2169
14.973	1.715	Max.	-0.6478	0.6341	0.8709
		Min.	-0.8724	0.1676	0.6546
		Dif.	0.2246	0.4666	0.2163
15.223	0.100	Max.	-2.4435	1.3657	0.5473
		Min.	-2.8501	1.0608	0.3857
		Dif.	0.4067	0.3049	0.1616
15.223	0.200	Max.	-2.3262	1.3661	0.6027
		Min.	-2.7227	1.0616	0.4308
		Dif.	0.3965	0.3045	0.1719
15.223	0.450	Max.	-2.0350	1.3544	0.6646
		Min.	-2.4061	1.0485	0.4814
		Dif.	0.3712	0.3059	0.1832
15.223	0.700	Max.	-1.7662	1.3251	0.7461
		Min.	-2.1158	1.0147	0.5471
		Dif.	0.3495	0.3104	0.1990
15.223	0.950	Max.	-1.4523	1.1987	0.8319
		Min.	-1.7695	0.8647	0.6188
		Dif.	0.3172	0.3341	0.2130
15.223	1.200	Max.	-1.2189	1.0804	0.9134
		Min.	-1.5197	0.7228	0.6845
		Dif.	0.3008	0.3575	0.2289
15.223	1.450	Max.	-1.0112	0.9553	0.9703
		Min.	-1.2977	0.5712	0.7305
		Dif.	0.2866	0.3841	0.2398
15.223	1.700	Max.	-0.8477	0.7408	1.0252
		Min.	-1.1248	0.3082	0.7723
		Dif.	0.2772	0.4326	0.2529
15.223	1.740	Max.	-0.8168	0.5663	1.0057
		Min.	-1.0909	0.0938	0.7528
		Dif.	0.2741	0.4724	0.2529
15.473	0.100	Max.	-2.5498	1.3064	0.5639
		Min.	-2.9963	0.9853	0.3967
		Dif.	0.4465	0.3211	0.1672
15.473	0.200	Max.	-2.4388	1.3061	0.6355
		Min.	-2.8765	0.9853	0.4547
		Dif.	0.4377	0.3208	0.1808
15.473	0.450	Max.	-2.1631	1.2899	0.7335
		Min.	-2.5788	0.9674	0.5339
		Dif.	0.4157	0.3225	0.1996
15.473	0.700	Max.	-1.8943	1.2606	0.8150
		Min.	-2.2885	0.9336	0.5996
		Dif.	0.3942	0.3269	0.2154
15.473	0.950	Max.	-1.6345	1.1956	0.8965
		Min.	-2.0080	0.8564	0.6653
		Dif.	0.3735	0.3392	0.2312
15.473	1.200	Max.	-1.4011	1.0772	0.9781
		Min.	-1.7582	0.7145	0.7310
		Dif.	0.3571	0.3627	0.2470



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.473	1.450	Max.	-1.2078	0.8862	1.0907
		Min.	-1.5546	0.4837	0.8186
		Dif.	0.3468	0.4024	0.2721
15.473	1.700	Max.	-1.0630	0.6751	1.1876
		Min.	-1.4072	0.2274	0.8887
		Dif.	0.3441	0.4477	0.2989
15.473	1.740	Max.	-1.0386	0.5336	1.1922
		Min.	-1.3823	0.0560	0.8868
		Dif.	0.3436	0.4776	0.3054
15.723	0.100	Max.	-2.6591	1.2369	0.5718
		Min.	-3.1468	0.8978	0.4007
		Dif.	0.4877	0.3392	0.1711
15.723	0.200	Max.	-2.5557	1.2344	0.6457
		Min.	-3.0362	0.8950	0.4602
		Dif.	0.4805	0.3394	0.1855
15.723	0.450	Max.	-2.2991	1.2230	0.7310
		Min.	-2.7620	0.8822	0.5287
		Dif.	0.4629	0.3408	0.2023
15.723	0.700	Max.	-2.0304	1.1937	0.8125
		Min.	-2.4717	0.8484	0.5944
		Dif.	0.4413	0.3453	0.2181
15.723	0.950	Max.	-1.8267	1.0502	0.9835
		Min.	-2.2606	0.6771	0.7271
		Dif.	0.4339	0.3730	0.2564
15.723	1.200	Max.	-1.5933	0.9318	1.0650
		Min.	-2.0108	0.5353	0.7928
		Dif.	0.4175	0.3965	0.2723
15.723	1.450	Max.	-1.4253	0.7968	1.1733
		Min.	-1.8397	0.3723	0.8745
		Dif.	0.4144	0.4245	0.2988
15.723	1.700	Max.	-1.2989	0.5942	1.2762
		Min.	-1.7230	0.1276	0.9477
		Dif.	0.4241	0.4666	0.3285
15.723	1.740	Max.	-1.2797	0.4776	1.2974
		Min.	-1.7059	-0.0129	0.9599
		Dif.	0.4262	0.4906	0.3375
15.973	0.100	Max.	-2.7687	1.1656	0.5708
		Min.	-3.2984	0.8085	0.3975
		Dif.	0.5297	0.3572	0.1733
15.973	0.200	Max.	-2.6724	1.1626	0.6461
		Min.	-3.1965	0.8050	0.4574
		Dif.	0.5241	0.3576	0.1887
15.973	0.450	Max.	-2.4339	1.1466	0.7336
		Min.	-2.9445	0.7865	0.5271
		Dif.	0.5106	0.3602	0.2065
15.973	0.700	Max.	-2.2273	1.0974	0.8294
		Min.	-2.7310	0.7277	0.6010
		Dif.	0.5037	0.3697	0.2284
15.973	0.950	Max.	-1.9663	0.9612	1.0047
		Min.	-2.4479	0.5653	0.7397
		Dif.	0.4816	0.3960	0.2650
15.973	1.200	Max.	-1.7978	0.8468	1.1005
		Min.	-2.2805	0.4293	0.8135
		Dif.	0.4828	0.4176	0.2870
15.973	1.450	Max.	-1.6486	0.7119	1.1982
		Min.	-2.1370	0.2669	0.8852
		Dif.	0.4884	0.4450	0.3130



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
15.973	1.700	Max.	-1.5405	0.4900	1.3055
		Min.	-2.0496	-0.0002	0.9624
		Dif.	0.5091	0.4903	0.3431
15.973	1.740	Max.	-1.5193	0.2965	1.3278
		Min.	-2.0303	-0.2331	0.9765
		Dif.	0.5111	0.5296	0.3513
16.223	0.100	Max.	-2.8768	1.0915	0.5606
		Min.	-3.4490	0.7162	0.3870
		Dif.	0.5722	0.3753	0.1736
16.223	0.200	Max.	-2.7880	1.0867	0.6433
		Min.	-3.3565	0.7104	0.4521
		Dif.	0.5684	0.3762	0.1911
16.223	0.450	Max.	-2.5697	1.0542	0.7572
		Min.	-3.1292	0.6720	0.5414
		Dif.	0.5595	0.3822	0.2157
16.223	0.700	Max.	-2.3630	1.0050	0.8530
		Min.	-2.9157	0.6133	0.6153
		Dif.	0.5526	0.3917	0.2377
16.223	0.950	Max.	-2.1693	0.9330	0.9487
		Min.	-2.7175	0.5276	0.6891
		Dif.	0.5482	0.4054	0.2596
16.223	1.200	Max.	-2.0007	0.8186	1.0445
		Min.	-2.5501	0.3916	0.7629
		Dif.	0.5494	0.4270	0.2816
16.223	1.450	Max.	-1.8682	0.6205	1.1711
		Min.	-2.4355	0.1543	0.8570
		Dif.	0.5674	0.4662	0.3142
16.223	1.700	Max.	-1.7837	0.4214	1.2760
		Min.	-2.3805	-0.0849	0.9330
		Dif.	0.5969	0.5063	0.3430
16.223	1.740	Max.	-1.7733	0.3327	1.2995
		Min.	-2.3756	-0.1915	0.9488
		Dif.	0.6023	0.5242	0.3507
16.473	0.100	Max.	-2.9813	1.0169	0.5408
		Min.	-3.5960	0.6241	0.3689
		Dif.	0.6147	0.3928	0.1719
16.473	0.200	Max.	-2.9007	1.0103	0.6141
		Min.	-3.5135	0.6163	0.4264
		Dif.	0.6128	0.3941	0.1877
16.473	0.450	Max.	-2.7017	0.9942	0.6968
		Min.	-3.3103	0.5976	0.4908
		Dif.	0.6086	0.3966	0.2059
16.473	0.700	Max.	-2.4950	0.9450	0.7925
		Min.	-3.0968	0.5389	0.5647
		Dif.	0.6017	0.4062	0.2278
16.473	0.950	Max.	-2.3590	0.7915	0.9202
		Min.	-2.9721	0.3560	0.6602
		Dif.	0.6131	0.4355	0.2600
16.473	1.200	Max.	-2.1876	0.6770	1.0161
		Min.	-2.8076	0.2200	0.7340
		Dif.	0.6201	0.4571	0.2821
16.473	1.450	Max.	-2.0781	0.5389	1.1127
		Min.	-2.7238	0.0541	0.8057
		Dif.	0.6457	0.4848	0.3070
16.473	1.700	Max.	-2.0104	0.3313	1.1985
		Min.	-2.6922	-0.1953	0.8678
		Dif.	0.6818	0.5265	0.3307



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
16.473	1.740	Max.	-1.9966	0.1606	1.2213
		Min.	-2.6833	-0.4003	0.8836
		Dif.	0.6867	0.5610	0.3377
16.723	0.100	Max.	-3.0791	0.9525	0.5120
		Min.	-3.7355	0.5454	0.3438
		Dif.	0.6564	0.4071	0.1682
16.723	0.200	Max.	-3.0048	0.9457	0.5735
		Min.	-3.6608	0.5372	0.3916
		Dif.	0.6560	0.4085	0.1820
16.723	0.450	Max.	-2.8218	0.9260	0.6462
		Min.	-3.4774	0.5142	0.4479
		Dif.	0.6557	0.4118	0.1983
16.723	0.700	Max.	-2.6688	0.8623	0.7077
		Min.	-3.3316	0.4377	0.4939
		Dif.	0.6628	0.4246	0.2137
16.723	0.950	Max.	-2.4829	0.7111	0.8764
		Min.	-3.1453	0.2576	0.6224
		Dif.	0.6624	0.4536	0.2540
16.723	1.200	Max.	-2.3639	0.6045	0.9379
		Min.	-3.0531	0.1316	0.6685
		Dif.	0.6892	0.4729	0.2694
16.723	1.450	Max.	-2.2712	0.4681	1.0081
		Min.	-2.9919	-0.0321	0.7197
		Dif.	0.7208	0.5001	0.2883
16.723	1.700	Max.	-2.2199	0.2778	1.0832
		Min.	-2.9830	-0.2604	0.7745
		Dif.	0.7631	0.5382	0.3088
16.723	1.740	Max.	-2.2127	0.1675	1.0993
		Min.	-2.9828	-0.3930	0.7855
		Dif.	0.7701	0.5604	0.3138
16.973	0.100	Max.	-3.1687	0.8975	0.4753
		Min.	-3.8656	0.4791	0.3126
		Dif.	0.6969	0.4184	0.1627
16.973	0.200	Max.	-3.0997	0.8888	0.5317
		Min.	-3.7975	0.4686	0.3559
		Dif.	0.6978	0.4202	0.1757
16.973	0.450	Max.	-2.9319	0.8439	0.6078
		Min.	-3.6330	0.4150	0.4142
		Dif.	0.7011	0.4290	0.1937
16.973	0.700	Max.	-2.7790	0.7803	0.6693
		Min.	-3.4871	0.3385	0.4602
		Dif.	0.7082	0.4418	0.2091
16.973	0.950	Max.	-2.6379	0.7053	0.7309
		Min.	-3.3642	0.2494	0.5061
		Dif.	0.7263	0.4559	0.2248
16.973	1.200	Max.	-2.5189	0.5987	0.7923
		Min.	-3.2721	0.1234	0.5522
		Dif.	0.7532	0.4753	0.2402
16.973	1.450	Max.	-2.4373	0.4113	0.8675
		Min.	-3.2267	-0.1004	0.6073
		Dif.	0.7894	0.5117	0.2601
16.973	1.700	Max.	-2.4000	0.2215	0.9279
		Min.	-3.2370	-0.3281	0.6512
		Dif.	0.8370	0.5496	0.2767
16.973	1.740	Max.	-2.3947	0.1104	0.9471
		Min.	-3.2395	-0.4618	0.6651
		Dif.	0.8448	0.5721	0.2820



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.223	0.100	Max.	-3.2488	0.8506	0.4312
		Min.	-3.9848	0.4236	0.2757
		Dif.	0.7359	0.4270	0.1555
17.223	0.200	Max.	-3.1850	0.8417	0.4719
		Min.	-3.9230	0.4129	0.3069
		Dif.	0.7380	0.4288	0.1650
17.223	0.450	Max.	-3.0283	0.8222	0.5148
		Min.	-3.7721	0.3901	0.3396
		Dif.	0.7439	0.4321	0.1752
17.223	0.700	Max.	-2.8753	0.7586	0.5763
		Min.	-3.6263	0.3137	0.3857
		Dif.	0.7510	0.4449	0.1906
17.223	0.950	Max.	-2.7630	0.6064	0.6074
		Min.	-3.5463	0.1328	0.4070
		Dif.	0.7833	0.4736	0.2004
17.223	1.200	Max.	-2.6440	0.4998	0.6688
		Min.	-3.4542	0.0068	0.4530
		Dif.	0.8102	0.4930	0.2158
17.223	1.450	Max.	-2.5758	0.3665	0.7175
		Min.	-3.4267	-0.1531	0.4888
		Dif.	0.8509	0.5196	0.2287
17.223	1.700	Max.	-2.5470	0.1738	0.7579
		Min.	-3.4489	-0.3846	0.5178
		Dif.	0.9019	0.5584	0.2401
17.223	1.740	Max.	-2.5401	0.0221	0.7663
		Min.	-3.4496	-0.5671	0.5236
		Dif.	0.9095	0.5893	0.2426
17.473	0.100	Max.	-3.3170	0.8209	0.3810
		Min.	-4.0899	0.3899	0.2343
		Dif.	0.7728	0.4310	0.1468
17.473	0.200	Max.	-3.2561	0.8121	0.4024
		Min.	-4.0315	0.3793	0.2504
		Dif.	0.7754	0.4328	0.1519
17.473	0.450	Max.	-3.1064	0.7917	0.4282
		Min.	-3.8891	0.3555	0.2700
		Dif.	0.7827	0.4362	0.1582
17.473	0.700	Max.	-2.9742	0.7250	0.4333
		Min.	-3.7735	0.2758	0.2727
		Dif.	0.7993	0.4492	0.1607
17.473	0.950	Max.	-2.8421	0.5710	0.5213
		Min.	-3.6674	0.0924	0.3382
		Dif.	0.8253	0.4785	0.1831
17.473	1.200	Max.	-2.7438	0.4701	0.5262
		Min.	-3.6039	-0.0265	0.3410
		Dif.	0.8602	0.4966	0.1852
17.473	1.450	Max.	-2.6820	0.3369	0.5412
		Min.	-3.5856	-0.1864	0.3508
		Dif.	0.9035	0.5233	0.1904
17.473	1.700	Max.	-2.6602	0.1606	0.5624
		Min.	-3.6175	-0.3983	0.3656
		Dif.	0.9573	0.5588	0.1968
17.473	1.740	Max.	-2.6596	0.0817	0.5694
		Min.	-3.6264	-0.4932	0.3708
		Dif.	0.9668	0.5749	0.1986
17.723	0.100	Max.	-3.3724	0.8079	0.3266
		Min.	-4.1797	0.3774	0.1897
		Dif.	0.8073	0.4304	0.1369



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
17.723	0.200	Max.	-3.3124	0.7981	0.3343
		Min.	-4.1222	0.3657	0.1955
		Dif.	0.8098	0.4324	0.1388
17.723	0.450	Max.	-3.1670	0.7503	0.3424
		Min.	-3.9845	0.3090	0.2014
		Dif.	0.8175	0.4413	0.1410
17.723	0.700	Max.	-3.0335	0.6836	0.3475
		Min.	-3.8702	0.2293	0.2040
		Dif.	0.8367	0.4543	0.1435
17.723	0.950	Max.	-2.9127	0.6099	0.3523
		Min.	-3.7790	0.1419	0.2069
		Dif.	0.8664	0.4680	0.1454
17.723	1.200	Max.	-2.8143	0.5090	0.3572
		Min.	-3.7157	0.0230	0.2097
		Dif.	0.9014	0.4860	0.1475
17.723	1.450	Max.	-2.7510	0.3306	0.3608
		Min.	-3.6964	-0.1902	0.2111
		Dif.	0.9454	0.5208	0.1497
17.723	1.700	Max.	-2.7304	0.1310	0.3617
		Min.	-3.7306	-0.4306	0.2107
		Dif.	1.0002	0.5616	0.1510
17.723	1.740	Max.	-2.7234	-0.0398	0.3606
		Min.	-3.7316	-0.6368	0.2099
		Dif.	1.0082	0.5971	0.1507
17.973	0.100	Max.	-3.4150	0.8060	0.2692
		Min.	-4.2544	0.3794	0.1431
		Dif.	0.8394	0.4266	0.1261
17.973	0.200	Max.	-3.3555	0.7973	0.2627
		Min.	-4.1971	0.3691	0.1383
		Dif.	0.8417	0.4282	0.1244
17.973	0.450	Max.	-3.2093	0.7773	0.2501
		Min.	-4.0574	0.3460	0.1289
		Dif.	0.8481	0.4314	0.1212
17.973	0.700	Max.	-3.0754	0.7106	0.2551
		Min.	-3.9435	0.2662	0.1315
		Dif.	0.8681	0.4444	0.1236
17.973	0.950	Max.	-2.9479	0.5627	0.1831
		Min.	-3.8458	0.0914	0.0759
		Dif.	0.8979	0.4713	0.1072
17.973	1.200	Max.	-2.8494	0.4618	0.1880
		Min.	-3.7825	-0.0275	0.0788
		Dif.	0.9331	0.4893	0.1092
17.973	1.450	Max.	-2.7881	0.3306	0.1787
		Min.	-3.7657	-0.1851	0.0711
		Dif.	0.9776	0.5157	0.1076
17.973	1.700	Max.	-2.7659	0.1548	0.1600
		Min.	-3.7983	-0.3969	0.0562
		Dif.	1.0324	0.5517	0.1038
17.973	1.740	Max.	-2.7642	0.0643	0.1471
		Min.	-3.8061	-0.5062	0.0465
		Dif.	1.0419	0.5705	0.1006
18.223	0.100	Max.	-3.4437	0.8210	0.2107
		Min.	-4.3123	0.4023	0.0946
		Dif.	0.8686	0.4187	0.1161
18.223	0.200	Max.	-3.3827	0.8125	0.1841
		Min.	-4.2528	0.3924	0.0760
		Dif.	0.8701	0.4202	0.1080



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.223	0.450	Max.	-3.2327	0.7942	0.1544
		Min.	-4.1071	0.3715	0.0540
		Dif.	0.8744	0.4227	0.1004
18.223	0.700	Max.	-3.0829	0.7342	0.1020
		Min.	-3.9740	0.3013	0.0140
		Dif.	0.8911	0.4329	0.0880
18.223	0.950	Max.	-2.9706	0.5830	0.0870
		Min.	-3.8950	0.1217	0.0015
		Dif.	0.9244	0.4613	0.0856
18.223	1.200	Max.	-2.8548	0.4826	0.0345
		Min.	-3.8098	0.0039	-0.0383
		Dif.	0.9550	0.4788	0.0728
18.223	1.450	Max.	-2.7876	0.3525	-0.0042
		Min.	-3.7859	-0.1525	-0.0796
		Dif.	0.9982	0.5050	0.0754
18.223	1.700	Max.	-2.7590	0.1724	-0.0311
		Min.	-3.8104	-0.3697	-0.1213
		Dif.	1.0514	0.5421	0.0902
18.223	1.740	Max.	-2.7540	0.0532	-0.0382
		Min.	-3.8140	-0.5142	-0.1335
		Dif.	1.0600	0.5674	0.0953
18.473	0.100	Max.	-3.4537	0.8528	0.1531
		Min.	-4.3581	0.4464	0.0459
		Dif.	0.9044	0.4064	0.1072
18.473	0.200	Max.	-3.3891	0.8446	0.1108
		Min.	-4.2933	0.4369	0.0165
		Dif.	0.9042	0.4076	0.0943
18.473	0.450	Max.	-3.2316	0.8026	0.0492
		Min.	-4.1368	0.3884	-0.0271
		Dif.	0.9051	0.4142	0.0763
18.473	0.700	Max.	-3.0861	0.7427	-0.0032
		Min.	-3.9993	0.3183	-0.0670
		Dif.	0.9132	0.4244	0.0638
18.473	0.950	Max.	-2.9486	0.6721	-0.0503
		Min.	-3.8862	0.2356	-0.1129
		Dif.	0.9376	0.4366	0.0626
18.473	1.200	Max.	-2.8330	0.5718	-0.0879
		Min.	-3.8008	0.1178	-0.1677
		Dif.	0.9678	0.4540	0.0798
18.473	1.450	Max.	-2.7524	0.3932	-0.1382
		Min.	-3.7598	-0.0955	-0.2413
		Dif.	1.0074	0.4887	0.1031
18.473	1.700	Max.	-2.7141	0.2048	-0.1800
		Min.	-3.7723	-0.3229	-0.3027
		Dif.	1.0582	0.5277	0.1227
18.473	1.740	Max.	-2.7066	0.0710	-0.1954
		Min.	-3.7727	-0.4853	-0.3255
		Dif.	1.0661	0.5563	0.1302
18.723	0.100	Max.	-3.4553	0.8927	0.0970
		Min.	-4.3841	0.5006	-0.0014
		Dif.	0.9288	0.3921	0.0984
18.723	0.200	Max.	-3.3870	0.8864	0.0488
		Min.	-4.3139	0.4935	-0.0348
		Dif.	0.9269	0.3928	0.0837
18.723	0.450	Max.	-3.2184	0.8687	-0.0119
		Min.	-4.1412	0.4736	-0.0771
		Dif.	0.9228	0.3950	0.0651



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
18.723	0.700	Max.	-3.0732	0.8087	-0.0657
		Min.	-4.0035	0.4035	-0.1160
		Dif.	0.9303	0.4052	0.0503
18.723	0.950	Max.	-2.8948	0.6743	-0.1797
		Min.	-3.8363	0.2484	-0.2694
		Dif.	0.9415	0.4259	0.0898
18.723	1.200	Max.	-2.7792	0.5739	-0.2173
		Min.	-3.7509	0.1306	-0.3242
		Dif.	0.9717	0.4434	0.1069
18.723	1.450	Max.	-2.6875	0.4436	-0.2675
		Min.	-3.6951	-0.0253	-0.3960
		Dif.	1.0076	0.4689	0.1285
18.723	1.700	Max.	-2.6358	0.2650	-0.3229
		Min.	-3.6900	-0.2408	-0.4747
		Dif.	1.0542	0.5058	0.1519
18.723	1.740	Max.	-2.6303	0.1836	-0.3364
		Min.	-3.6929	-0.3396	-0.4955
		Dif.	1.0625	0.5232	0.1590
18.973	0.100	Max.	-3.4444	0.9421	0.0431
		Min.	-4.3949	0.5662	-0.0468
		Dif.	0.9505	0.3759	0.0899
18.973	0.200	Max.	-3.3714	0.9364	-0.0169
		Min.	-4.3179	0.5598	-0.0886
		Dif.	0.9465	0.3765	0.0717
18.973	0.450	Max.	-3.1910	0.9227	-0.0879
		Min.	-4.1281	0.5453	-0.1380
		Dif.	0.9371	0.3774	0.0501
18.973	0.700	Max.	-3.0028	0.8806	-0.1540
		Min.	-3.9303	0.4988	-0.2211
		Dif.	0.9275	0.3817	0.0671
18.973	0.950	Max.	-2.8661	0.7391	-0.2381
		Min.	-3.8195	0.3332	-0.3357
		Dif.	0.9533	0.4059	0.0976
18.973	1.200	Max.	-2.7018	0.6400	-0.3020
		Min.	-3.6688	0.2195	-0.4204
		Dif.	0.9670	0.4205	0.1184
18.973	1.450	Max.	-2.5927	0.5137	-0.3725
		Min.	-3.5901	0.0696	-0.5174
		Dif.	0.9974	0.4440	0.1449
18.973	1.700	Max.	-2.5223	0.3062	-0.4392
		Min.	-3.5605	-0.1806	-0.6112
		Dif.	1.0382	0.4868	0.1720
18.973	1.740	Max.	-2.5057	0.1064	-0.4608
		Min.	-3.5492	-0.4246	-0.6423
		Dif.	1.0435	0.5310	0.1815
19.223	0.100	Max.	-3.4215	1.0015	-0.0073
		Min.	-4.3911	0.6441	-0.0893
		Dif.	0.9695	0.3574	0.0820
19.223	0.200	Max.	-3.3424	0.9974	-0.0771
		Min.	-4.3053	0.6398	-0.1377
		Dif.	0.9628	0.3576	0.0606
19.223	0.450	Max.	-3.1471	0.9701	-0.1615
		Min.	-4.0941	0.6106	-0.2242
		Dif.	0.9470	0.3595	0.0627
19.223	0.700	Max.	-2.9601	0.9280	-0.2259
		Min.	-3.8952	0.5641	-0.3085
		Dif.	0.9351	0.3638	0.0826



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.223	0.950	Max.	-2.7749	0.8658	-0.2902
		Min.	-3.7177	0.4937	-0.3928
		Dif.	0.9428	0.3721	0.1025
19.223	1.200	Max.	-2.6105	0.7667	-0.3546
		Min.	-3.5670	0.3800	-0.4770
		Dif.	0.9565	0.3867	0.1224
19.223	1.450	Max.	-2.4796	0.5908	-0.4450
		Min.	-3.4591	0.1746	-0.5986
		Dif.	0.9795	0.4162	0.1536
19.223	1.700	Max.	-2.3911	0.4082	-0.5270
		Min.	-3.4053	-0.0437	-0.7107
		Dif.	1.0142	0.4519	0.1838
19.223	1.740	Max.	-2.3796	0.3248	-0.5560
		Min.	-3.4003	-0.1449	-0.7515
		Dif.	1.0206	0.4697	0.1955
19.473	0.100	Max.	-3.3885	1.0613	-0.0533
		Min.	-4.3750	0.7227	-0.1281
		Dif.	0.9865	0.3386	0.0749
19.473	0.200	Max.	-3.3037	1.0590	-0.1178
		Min.	-4.2808	0.7206	-0.1722
		Dif.	0.9771	0.3384	0.0544
19.473	0.450	Max.	-3.0932	1.0463	-0.1799
		Min.	-4.0473	0.7072	-0.2418
		Dif.	0.9541	0.3390	0.0619
19.473	0.700	Max.	-2.9065	1.0041	-0.2442
		Min.	-3.8480	0.6608	-0.3260
		Dif.	0.9415	0.3433	0.0818
19.473	0.950	Max.	-2.6669	0.8947	-0.3657
		Min.	-3.5921	0.5413	-0.4810
		Dif.	0.9252	0.3535	0.1154
19.473	1.200	Max.	-2.5026	0.7956	-0.4300
		Min.	-3.4414	0.4275	-0.5653
		Dif.	0.9388	0.3681	0.1352
19.473	1.450	Max.	-2.3527	0.6790	-0.5034
		Min.	-3.3076	0.2936	-0.6641
		Dif.	0.9549	0.3853	0.1607
19.473	1.700	Max.	-2.2390	0.4930	-0.5904
		Min.	-3.2202	0.0737	-0.7827
		Dif.	0.9813	0.4193	0.1923
19.473	1.740	Max.	-2.2187	0.3490	-0.6143
		Min.	-3.2037	-0.1017	-0.8182
		Dif.	0.9851	0.4507	0.2039
19.723	0.100	Max.	-3.3465	1.1195	-0.0950
		Min.	-4.3481	0.7991	-0.1635
		Dif.	1.0016	0.3204	0.0686
19.723	0.200	Max.	-3.2563	1.1180	-0.1590
		Min.	-4.2459	0.7973	-0.2085
		Dif.	0.9896	0.3207	0.0495
19.723	0.450	Max.	-3.0322	1.1104	-0.2152
		Min.	-3.9921	0.7891	-0.2820
		Dif.	0.9600	0.3212	0.0668
19.723	0.700	Max.	-2.7970	1.0902	-0.2711
		Min.	-3.7220	0.7673	-0.3575
		Dif.	0.9250	0.3229	0.0864
19.723	0.950	Max.	-2.6064	0.9700	-0.3869
		Min.	-3.5321	0.6334	-0.5077
		Dif.	0.9257	0.3366	0.1208



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
19.723	1.200	Max.	-2.3869	0.8773	-0.4423
		Min.	-3.3029	0.5275	-0.5839
		Dif.	0.9160	0.3498	0.1415
19.723	1.450	Max.	-2.2175	0.7689	-0.5216
		Min.	-3.1420	0.4058	-0.6883
		Dif.	0.9244	0.3631	0.1667
19.723	1.700	Max.	-2.0803	0.5967	-0.6036
		Min.	-3.0231	0.2090	-0.8004
		Dif.	0.9428	0.3876	0.1967
19.723	1.740	Max.	-2.0566	0.4680	-0.6287
		Min.	-3.0019	0.0557	-0.8394
		Dif.	0.9453	0.4123	0.2107
19.973	0.100	Max.	-3.2956	1.1781	-0.1318
		Min.	-4.3116	0.8737	-0.1958
		Dif.	1.0160	0.3043	0.0639
19.973	0.200	Max.	-3.1990	1.1791	-0.1889
		Min.	-4.2017	0.8741	-0.2468
		Dif.	1.0027	0.3050	0.0579
19.973	0.450	Max.	-2.9593	1.1695	-0.2526
		Min.	-3.9270	0.8635	-0.3362
		Dif.	0.9677	0.3060	0.0836
19.973	0.700	Max.	-2.7240	1.1496	-0.3081
		Min.	-3.6571	0.8414	-0.4123
		Dif.	0.9331	0.3082	0.1042
19.973	0.950	Max.	-2.4937	1.0951	-0.3635
		Min.	-3.3951	0.7900	-0.4884
		Dif.	0.9014	0.3051	0.1249
19.973	1.200	Max.	-2.2743	1.0011	-0.4190
		Min.	-3.1659	0.6854	-0.5645
		Dif.	0.8916	0.3158	0.1455
19.973	1.450	Max.	-2.0835	0.8492	-0.4999
		Min.	-2.9743	0.5190	-0.6738
		Dif.	0.8908	0.3302	0.1739
19.973	1.700	Max.	-1.9257	0.6952	-0.5730
		Min.	-2.8265	0.3561	-0.7744
		Dif.	0.9009	0.3391	0.2014
19.973	1.740	Max.	-1.9011	0.6213	-0.5849
		Min.	-2.8040	0.2835	-0.7984
		Dif.	0.9029	0.3378	0.2135
20.223	0.100	Max.	-3.2365	1.2288	-0.1615
		Min.	-4.2689	0.9393	-0.2267
		Dif.	1.0324	0.2895	0.0652
20.223	0.200	Max.	-3.1350	1.2307	-0.2039
		Min.	-4.1518	0.9404	-0.2688
		Dif.	1.0168	0.2903	0.0649
20.223	0.450	Max.	-2.8841	1.2242	-0.2428
		Min.	-3.8585	0.9319	-0.3274
		Dif.	0.9744	0.2922	0.0845
20.223	0.700	Max.	-2.6533	1.1989	-0.2983
		Min.	-3.5839	0.9152	-0.4035
		Dif.	0.9306	0.2837	0.1052
20.223	0.950	Max.	-2.3813	1.1082	-0.3562
		Min.	-3.2560	0.8148	-0.4954
		Dif.	0.8747	0.2934	0.1392
20.223	1.200	Max.	-2.1620	1.0142	-0.4116
		Min.	-3.0268	0.7102	-0.5715
		Dif.	0.8648	0.3040	0.1599



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.223	1.450	Max.	-1.9580	0.9189	-0.4563
		Min.	-2.8141	0.6079	-0.6372
		Dif.	0.8560	0.3110	0.1808
20.223	1.700	Max.	-1.7822	0.7502	-0.5087
		Min.	-2.6396	0.4361	-0.7148
		Dif.	0.8574	0.3141	0.2060
20.223	1.740	Max.	-1.7504	0.5947	-0.5388
		Min.	-2.6072	0.2917	-0.7504
		Dif.	0.8569	0.3030	0.2116
20.473	0.100	Max.	-3.1717	1.2685	-0.1874
		Min.	-4.2200	0.9921	-0.2542
		Dif.	1.0483	0.2764	0.0667
20.473	0.200	Max.	-3.0666	1.2708	-0.2186
		Min.	-4.0974	0.9931	-0.2900
		Dif.	1.0308	0.2777	0.0715
20.473	0.450	Max.	-2.8139	1.2610	-0.2489
		Min.	-3.7828	0.9928	-0.3395
		Dif.	0.9689	0.2682	0.0906
20.473	0.700	Max.	-2.5494	1.2502	-0.2629
		Min.	-3.4640	0.9814	-0.3694
		Dif.	0.9146	0.2688	0.1065
20.473	0.950	Max.	-2.3041	1.1555	-0.3419
		Min.	-3.1811	0.8796	-0.4849
		Dif.	0.8770	0.2759	0.1430
20.473	1.200	Max.	-2.0588	1.0598	-0.3559
		Min.	-2.8968	0.7692	-0.5148
		Dif.	0.8380	0.2906	0.1589
20.473	1.450	Max.	-1.8459	0.9624	-0.3885
		Min.	-2.6679	0.6613	-0.5689
		Dif.	0.8220	0.3011	0.1804
20.473	1.700	Max.	-1.6631	0.8170	-0.4029
		Min.	-2.4781	0.4985	-0.6027
		Dif.	0.8150	0.3185	0.1997
20.473	1.740	Max.	-1.6362	0.7827	-0.3905
		Min.	-2.4506	0.4605	-0.5913
		Dif.	0.8144	0.3222	0.2009
20.723	0.100	Max.	-3.1020	1.2978	-0.2105
		Min.	-4.1657	1.0332	-0.2787
		Dif.	1.0637	0.2646	0.0681
20.723	0.200	Max.	-3.0035	1.2956	-0.2305
		Min.	-4.0291	1.0417	-0.3077
		Dif.	1.0256	0.2539	0.0772
20.723	0.450	Max.	-2.7370	1.2936	-0.2516
		Min.	-3.7083	1.0406	-0.3509
		Dif.	0.9713	0.2530	0.0992
20.723	0.700	Max.	-2.4723	1.2828	-0.2656
		Min.	-3.3896	1.0292	-0.3807
		Dif.	0.9172	0.2536	0.1151
20.723	0.950	Max.	-2.2117	1.2359	-0.2796
		Min.	-3.0756	0.9755	-0.4105
		Dif.	0.8639	0.2603	0.1310
20.723	1.200	Max.	-1.9706	1.1402	-0.2935
		Min.	-2.7871	0.8651	-0.4404
		Dif.	0.8165	0.2751	0.1468
20.723	1.450	Max.	-1.7503	0.9900	-0.2969
		Min.	-2.5411	0.6913	-0.4623
		Dif.	0.7908	0.2986	0.1655



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
20.723	1.700	Max.	-1.5673	0.7594	-0.2915
		Min.	-2.3444	0.4131	-0.4718
		Dif.	0.7771	0.3464	0.1804
20.723	1.740	Max.	-1.5282	0.4669	-0.2842
		Min.	-2.3003	0.0513	-0.4724
		Dif.	0.7720	0.4156	0.1881
20.973	0.100	Max.	-3.0395	1.3077	-0.2314
		Min.	-4.0957	1.0662	-0.3006
		Dif.	1.0562	0.2415	0.0691
20.973	0.200	Max.	-2.9314	1.3098	-0.2387
		Min.	-3.9644	1.0686	-0.3177
		Dif.	1.0330	0.2412	0.0790
20.973	0.450	Max.	-2.6621	1.3046	-0.2424
		Min.	-3.6372	1.0628	-0.3371
		Dif.	0.9751	0.2418	0.0948
20.973	0.700	Max.	-2.3974	1.2938	-0.2564
		Min.	-3.3185	1.0514	-0.3670
		Dif.	0.9211	0.2424	0.1106
20.973	0.950	Max.	-2.1296	1.1818	-0.2310
		Min.	-2.9837	0.9127	-0.3581
		Dif.	0.8541	0.2691	0.1271
20.973	1.200	Max.	-1.8884	1.0861	-0.2449
		Min.	-2.6952	0.8022	-0.3880
		Dif.	0.8069	0.2839	0.1431
20.973	1.450	Max.	-1.6826	0.9781	-0.2183
		Min.	-2.4495	0.6727	-0.3692
		Dif.	0.7669	0.3054	0.1508
20.973	1.700	Max.	-1.5047	0.8310	-0.1919
		Min.	-2.2532	0.4930	-0.3505
		Dif.	0.7485	0.3380	0.1586
20.973	1.740	Max.	-1.4787	0.7908	-0.1643
		Min.	-2.2255	0.4411	-0.3235
		Dif.	0.7468	0.3497	0.1591
21.223	0.100	Max.	-2.9654	1.3148	-0.2511
		Min.	-4.0297	1.0775	-0.3204
		Dif.	1.0642	0.2373	0.0693
21.223	0.200	Max.	-2.8570	1.3173	-0.2475
		Min.	-3.8972	1.0785	-0.3279
		Dif.	1.0401	0.2388	0.0804
21.223	0.450	Max.	-2.5873	1.3104	-0.2418
		Min.	-3.5672	1.0713	-0.3367
		Dif.	0.9799	0.2392	0.0948
21.223	0.700	Max.	-2.3265	1.2911	-0.2203
		Min.	-3.2388	1.0485	-0.3237
		Dif.	0.9123	0.2425	0.1034
21.223	0.950	Max.	-2.0547	1.1827	-0.2161
		Min.	-2.9090	0.9230	-0.3402
		Dif.	0.8543	0.2597	0.1241
21.223	1.200	Max.	-1.8212	1.0771	-0.1946
		Min.	-2.6185	0.7924	-0.3272
		Dif.	0.7973	0.2847	0.1327
21.223	1.450	Max.	-1.6215	0.9616	-0.1834
		Min.	-2.3747	0.6497	-0.3252
		Dif.	0.7533	0.3119	0.1418
21.223	1.700	Max.	-1.4547	0.8165	-0.1582
		Min.	-2.1790	0.4711	-0.3066
		Dif.	0.7243	0.3454	0.1484



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.223	1.740	Max.	-1.4307	0.7908	-0.1643
		Min.	-2.1516	0.4411	-0.3235
		Dif.	0.7209	0.3497	0.1591
21.473	0.100	Max.	-2.8905	1.3108	-0.2705
		Min.	-3.9578	1.0700	-0.3396
		Dif.	1.0673	0.2408	0.0691
21.473	0.200	Max.	-2.7828	1.3141	-0.2540
		Min.	-3.8257	1.0711	-0.3348
		Dif.	1.0428	0.2430	0.0808
21.473	0.450	Max.	-2.5148	1.3083	-0.2297
		Min.	-3.4959	1.0609	-0.3254
		Dif.	0.9811	0.2474	0.0956
21.473	0.700	Max.	-2.2515	1.2889	-0.2082
		Min.	-3.1700	1.0392	-0.3124
		Dif.	0.9186	0.2497	0.1042
21.473	0.950	Max.	-1.9949	1.2252	-0.1867
		Min.	-2.8509	0.9778	-0.2994
		Dif.	0.8560	0.2473	0.1128
21.473	1.200	Max.	-1.7613	1.1196	-0.1651
		Min.	-2.5604	0.8472	-0.2865
		Dif.	0.7991	0.2723	0.1213
21.473	1.450	Max.	-1.5627	0.9423	-0.1315
		Min.	-2.3135	0.6263	-0.2576
		Dif.	0.7508	0.3160	0.1261
21.473	1.700	Max.	-1.4095	0.6920	-0.0876
		Min.	-2.1249	0.3157	-0.2150
		Dif.	0.7154	0.3762	0.1274
21.473	1.740	Max.	-1.3762	0.3990	-0.0695
		Min.	-2.0831	-0.0464	-0.2022
		Dif.	0.7069	0.4454	0.1327
21.723	0.100	Max.	-2.8104	1.2900	-0.2890
		Min.	-3.8844	1.0517	-0.3591
		Dif.	1.0740	0.2383	0.0701
21.723	0.200	Max.	-2.7048	1.2915	-0.2650
		Min.	-3.7546	1.0512	-0.3440
		Dif.	1.0498	0.2403	0.0791
21.723	0.450	Max.	-2.4423	1.2840	-0.2348
		Min.	-3.4314	1.0426	-0.3244
		Dif.	0.9891	0.2414	0.0896
21.723	0.700	Max.	-2.1790	1.2646	-0.2133
		Min.	-3.1055	1.0208	-0.3115
		Dif.	0.9265	0.2438	0.0981
21.723	0.950	Max.	-1.9393	1.1340	-0.1444
		Min.	-2.8011	0.8711	-0.2523
		Dif.	0.8618	0.2628	0.1079
21.723	1.200	Max.	-1.7058	1.0283	-0.1229
		Min.	-2.5106	0.7405	-0.2393
		Dif.	0.8049	0.2878	0.1164
21.723	1.450	Max.	-1.5216	0.8979	-0.0816
		Min.	-2.2782	0.5746	-0.1983
		Dif.	0.7565	0.3233	0.1167
21.723	1.700	Max.	-1.3819	0.6992	-0.0472
		Min.	-2.1021	0.3259	-0.1655
		Dif.	0.7201	0.3733	0.1183
21.723	1.740	Max.	-1.3645	0.6396	-0.0464
		Min.	-2.0802	0.2517	-0.1765
		Dif.	0.7156	0.3879	0.1301



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
21.973	0.100	Max.	-2.7274	1.2561	-0.3077
		Min.	-3.8064	1.0265	-0.3799
		Dif.	1.0790	0.2296	0.0722
21.973	0.200	Max.	-2.6242	1.2574	-0.2779
		Min.	-3.6799	1.0257	-0.3557
		Dif.	1.0557	0.2318	0.0778
21.973	0.450	Max.	-2.3682	1.2480	-0.2411
		Min.	-3.3652	1.0143	-0.3284
		Dif.	0.9970	0.2337	0.0873
21.973	0.700	Max.	-2.1287	1.2201	-0.1950
		Min.	-3.0681	0.9798	-0.2887
		Dif.	0.9394	0.2404	0.0937
21.973	0.950	Max.	-1.8651	1.0949	-0.1313
		Min.	-2.7370	0.8421	-0.2328
		Dif.	0.8719	0.2528	0.1015
21.973	1.200	Max.	-1.6604	0.9903	-0.0835
		Min.	-2.4770	0.7031	-0.1937
		Dif.	0.8166	0.2872	0.1103
21.973	1.450	Max.	-1.4850	0.8656	-0.0493
		Min.	-2.2521	0.5402	-0.1603
		Dif.	0.7671	0.3254	0.1110
21.973	1.700	Max.	-1.3536	0.6162	-0.0165
		Min.	-2.0817	0.2265	-0.1295
		Dif.	0.7282	0.3897	0.1130
21.973	1.740	Max.	-1.3239	0.3267	-0.0190
		Min.	-2.0427	-0.1321	-0.1395
		Dif.	0.7188	0.4588	0.1205
22.223	0.100	Max.	-2.6415	1.2084	-0.3269
		Min.	-3.7232	0.9936	-0.4027
		Dif.	1.0817	0.2148	0.0759
22.223	0.200	Max.	-2.5416	1.2098	-0.2879
		Min.	-3.6015	0.9925	-0.3657
		Dif.	1.0599	0.2173	0.0778
22.223	0.450	Max.	-2.2941	1.1974	-0.2305
		Min.	-3.2986	0.9726	-0.3158
		Dif.	1.0045	0.2248	0.0853
22.223	0.700	Max.	-2.0546	1.1696	-0.1824
		Min.	-3.0016	0.9381	-0.2773
		Dif.	0.9470	0.2315	0.0949
22.223	0.950	Max.	-1.8246	1.1022	-0.1343
		Min.	-2.7131	0.8680	-0.2396
		Dif.	0.8885	0.2341	0.1053
22.223	1.200	Max.	-1.6199	0.9975	-0.0862
		Min.	-2.4531	0.7290	-0.2019
		Dif.	0.8332	0.2685	0.1158
22.223	1.450	Max.	-1.4556	0.8167	-0.0254
		Min.	-2.2395	0.4890	-0.1455
		Dif.	0.7839	0.3277	0.1202
22.223	1.700	Max.	-1.3373	0.6480	0.0131
		Min.	-2.0812	0.2718	-0.1046
		Dif.	0.7439	0.3762	0.1176
22.223	1.740	Max.	-1.3223	0.5994	0.0132
		Min.	-2.0613	0.2108	-0.1039
		Dif.	0.7390	0.3885	0.1171
22.473	0.100	Max.	-2.5528	1.1479	-0.3481
		Min.	-3.6341	0.9524	-0.4279
		Dif.	1.0812	0.1955	0.0798



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.473	0.200	Max.	-2.4574	1.1477	-0.3060
		Min.	-3.5188	0.9505	-0.3853
		Dif.	1.0615	0.1972	0.0793
22.473	0.450	Max.	-2.2206	1.1395	-0.2565
		Min.	-3.2322	0.9393	-0.3354
		Dif.	1.0116	0.2002	0.0789
22.473	0.700	Max.	-1.9811	1.1117	-0.2089
		Min.	-2.9352	0.9048	-0.2964
		Dif.	0.9541	0.2069	0.0875
22.473	0.950	Max.	-1.7785	0.9951	-0.1243
		Min.	-2.6859	0.7486	-0.2360
		Dif.	0.9074	0.2465	0.1117
22.473	1.200	Max.	-1.5737	0.8905	-0.0762
		Min.	-2.4260	0.6096	-0.1983
		Dif.	0.8523	0.2809	0.1221
22.473	1.450	Max.	-1.4251	0.7703	-0.0347
		Min.	-2.2287	0.4429	-0.1568
		Dif.	0.8036	0.3273	0.1221
22.473	1.700	Max.	-1.3167	0.6243	-0.0006
		Min.	-2.0777	0.2458	-0.1177
		Dif.	0.7610	0.3785	0.1171
22.473	1.740	Max.	-1.3035	0.5995	0.0132
		Min.	-2.0575	0.2107	-0.1039
		Dif.	0.7540	0.3888	0.1171
22.723	0.100	Max.	-2.4603	1.0809	-0.3716
		Min.	-3.5375	0.9078	-0.4558
		Dif.	1.0772	0.1731	0.0842
22.723	0.200	Max.	-2.3691	1.0813	-0.3267
		Min.	-3.4289	0.9067	-0.4088
		Dif.	1.0598	0.1746	0.0821
22.723	0.450	Max.	-2.1429	1.0727	-0.2743
		Min.	-3.1586	0.8959	-0.3545
		Dif.	1.0157	0.1768	0.0802
22.723	0.700	Max.	-1.9358	1.0468	-0.2190
		Min.	-2.9126	0.8652	-0.3042
		Dif.	0.9768	0.1817	0.0851
22.723	0.950	Max.	-1.7027	0.9303	-0.1299
		Min.	-2.6188	0.7021	-0.2366
		Dif.	0.9161	0.2282	0.1067
22.723	1.200	Max.	-1.5288	0.8426	-0.0688
		Min.	-2.4033	0.5746	-0.1929
		Dif.	0.8745	0.2679	0.1241
22.723	1.450	Max.	-1.3774	0.7360	-0.0360
		Min.	-2.2229	0.4058	-0.1609
		Dif.	0.8455	0.3301	0.1250
22.723	1.700	Max.	-1.2818	0.5055	0.0111
		Min.	-2.0804	0.0975	-0.1089
		Dif.	0.7986	0.4080	0.1200
22.723	1.740	Max.	-1.2669	0.2205	0.0374
		Min.	-2.0376	-0.2479	-0.0801
		Dif.	0.7708	0.4684	0.1175
22.973	0.100	Max.	-2.3638	1.0062	-0.3966
		Min.	-3.4327	0.8556	-0.4876
		Dif.	1.0689	0.1505	0.0910
22.973	0.200	Max.	-2.2776	1.0062	-0.3450
		Min.	-3.3317	0.8553	-0.4305
		Dif.	1.0542	0.1509	0.0855



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
22.973	0.450	Max.	-2.0638	0.9943	-0.2728
		Min.	-3.0801	0.8378	-0.3537
		Dif.	1.0163	0.1565	0.0809
22.973	0.700	Max.	-1.8567	0.9712	-0.2210
		Min.	-2.8341	0.8043	-0.2999
		Dif.	0.9774	0.1669	0.0789
22.973	0.950	Max.	-1.6584	0.9224	-0.1611
		Min.	-2.5957	0.7334	-0.2551
		Dif.	0.9373	0.1890	0.0940
22.973	1.200	Max.	-1.4846	0.8347	-0.0999
		Min.	-2.3803	0.6060	-0.2114
		Dif.	0.8957	0.2287	0.1114
22.973	1.450	Max.	-1.3405	0.6785	-0.0423
		Min.	-2.2118	0.3650	-0.1630
		Dif.	0.8714	0.3135	0.1206
22.973	1.700	Max.	-1.2611	0.5015	-0.0062
		Min.	-2.0835	0.1101	-0.1226
		Dif.	0.8224	0.3914	0.1164
22.973	1.740	Max.	-1.2612	0.4454	-0.0012
		Min.	-2.0602	0.0417	-0.1235
		Dif.	0.7989	0.4037	0.1223
23.223	0.100	Max.	-2.2636	0.9335	-0.4181
		Min.	-3.3180	0.7901	-0.5291
		Dif.	1.0544	0.1433	0.1111
23.223	0.200	Max.	-2.1834	0.9319	-0.3702
		Min.	-3.2255	0.7888	-0.4671
		Dif.	1.0421	0.1431	0.0969
23.223	0.450	Max.	-1.9844	0.9259	-0.3111
		Min.	-2.9953	0.7793	-0.3965
		Dif.	1.0109	0.1465	0.0854
23.223	0.700	Max.	-1.7773	0.9027	-0.2604
		Min.	-2.7493	0.7457	-0.3425
		Dif.	0.9720	0.1570	0.0821
23.223	0.950	Max.	-1.6109	0.8172	-0.1606
		Min.	-2.5648	0.6296	-0.2420
		Dif.	0.9538	0.1877	0.0813
23.223	1.200	Max.	-1.4371	0.7295	-0.1017
		Min.	-2.3493	0.5021	-0.1960
		Dif.	0.9122	0.2275	0.0943
23.223	1.450	Max.	-1.3132	0.6237	-0.0539
		Min.	-2.1868	0.3480	-0.1577
		Dif.	0.8737	0.2757	0.1038
23.223	1.700	Max.	-1.2283	0.4144	-0.0328
		Min.	-2.0759	0.0275	-0.1401
		Dif.	0.8476	0.3869	0.1073
23.223	1.740	Max.	-1.2192	0.1458	-0.0412
		Min.	-2.0351	-0.3138	-0.1501
		Dif.	0.8160	0.4595	0.1088
23.473	0.100	Max.	-2.1583	0.8618	-0.4415
		Min.	-3.1918	0.7219	-0.5745
		Dif.	1.0334	0.1399	0.1330
23.473	0.200	Max.	-2.0841	0.8607	-0.3917
		Min.	-3.1071	0.7213	-0.5141
		Dif.	1.0231	0.1394	0.1224
23.473	0.450	Max.	-1.8997	0.8534	-0.3328
		Min.	-2.8963	0.7120	-0.4421
		Dif.	0.9966	0.1415	0.1093



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.473	0.700	Max.	-1.7377	0.8288	-0.2745
		Min.	-2.7118	0.6840	-0.3797
		Dif.	0.9741	0.1447	0.1052
23.473	0.950	Max.	-1.5330	0.7294	-0.1806
		Min.	-2.4764	0.5498	-0.2594
		Dif.	0.9435	0.1797	0.0788
23.473	1.200	Max.	-1.3974	0.6680	-0.1217
		Min.	-2.3142	0.4563	-0.1976
		Dif.	0.9168	0.2117	0.0758
23.473	1.450	Max.	-1.2821	0.5728	-0.0853
		Min.	-2.1676	0.3262	-0.1641
		Dif.	0.8855	0.2466	0.0787
23.473	1.700	Max.	-1.2089	0.4370	-0.0718
		Min.	-2.0556	0.0978	-0.1642
		Dif.	0.8467	0.3392	0.0924
23.473	1.740	Max.	-1.1919	0.3955	-0.0896
		Min.	-2.0455	-0.0678	-0.2347
		Dif.	0.8536	0.4633	0.1451
23.723	0.100	Max.	-2.0479	0.7901	-0.4670
		Min.	-3.0531	0.6495	-0.6232
		Dif.	1.0052	0.1406	0.1563
23.723	0.200	Max.	-1.9803	0.7881	-0.4110
		Min.	-2.9764	0.6484	-0.5605
		Dif.	0.9961	0.1397	0.1495
23.723	0.450	Max.	-1.8126	0.7733	-0.3327
		Min.	-2.7860	0.6335	-0.4735
		Dif.	0.9733	0.1399	0.1408
23.723	0.700	Max.	-1.6506	0.7487	-0.2744
		Min.	-2.6015	0.6055	-0.4110
		Dif.	0.9509	0.1432	0.1366
23.723	0.950	Max.	-1.4957	0.7108	-0.2161
		Min.	-2.4241	0.5521	-0.3486
		Dif.	0.9284	0.1587	0.1324
23.723	1.200	Max.	-1.3601	0.6494	-0.1579
		Min.	-2.2619	0.4586	-0.2861
		Dif.	0.9018	0.1908	0.1283
23.723	1.450	Max.	-1.2549	0.5421	-0.1006
		Min.	-2.1244	0.2957	-0.2385
		Dif.	0.8695	0.2464	0.1379
23.723	1.700	Max.	-1.1887	0.4534	-0.0764
		Min.	-2.0120	0.1275	-0.2286
		Dif.	0.8233	0.3259	0.1523
23.723	1.740	Max.	-1.1779	0.4212	-0.0906
		Min.	-1.9945	0.0342	-0.2417
		Dif.	0.8167	0.3871	0.1511
23.973	0.100	Max.	-1.9315	0.7198	-0.4946
		Min.	-2.9010	0.5745	-0.6747
		Dif.	0.9695	0.1453	0.1801
23.973	0.200	Max.	-1.8713	0.7172	-0.4417
		Min.	-2.8323	0.5723	-0.6196
		Dif.	0.9610	0.1449	0.1779
23.973	0.450	Max.	-1.7217	0.7122	-0.3785
		Min.	-2.6611	0.5660	-0.5546
		Dif.	0.9394	0.1462	0.1761
23.973	0.700	Max.	-1.5597	0.6875	-0.3202
		Min.	-2.4766	0.5380	-0.4921
		Dif.	0.9170	0.1495	0.1719



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
23.973	0.950	Max.	-1.4521	0.6320	-0.2266
		Min.	-2.3472	0.4514	-0.4146
		Dif.	0.8951	0.1806	0.1880
23.973	1.200	Max.	-1.3165	0.5707	-0.1683
		Min.	-2.1850	0.3579	-0.3521
		Dif.	0.8685	0.2128	0.1838
23.973	1.450	Max.	-1.2269	0.5081	-0.1248
		Min.	-2.0591	0.2573	-0.3161
		Dif.	0.8321	0.2508	0.1913
23.973	1.700	Max.	-1.1668	0.4325	-0.1024
		Min.	-1.9520	0.1269	-0.2899
		Dif.	0.7852	0.3056	0.1874
23.973	1.740	Max.	-1.1592	0.4012	-0.1068
		Min.	-1.9358	0.0723	-0.2809
		Dif.	0.7766	0.3289	0.1741
24.223	0.100	Max.	-1.8081	0.6567	-0.5239
		Min.	-2.7343	0.5041	-0.7276
		Dif.	0.9262	0.1526	0.2038
24.223	0.200	Max.	-1.7544	0.6549	-0.4743
		Min.	-2.6722	0.5023	-0.6799
		Dif.	0.9178	0.1526	0.2056
24.223	0.450	Max.	-1.6211	0.6501	-0.4139
		Min.	-2.5169	0.4953	-0.6215
		Dif.	0.8959	0.1548	0.2076
24.223	0.700	Max.	-1.5106	0.6308	-0.3627
		Min.	-2.3814	0.4688	-0.5760
		Dif.	0.8708	0.1620	0.2133
24.223	0.950	Max.	-1.3594	0.5642	-0.2566
		Min.	-2.2101	0.3681	-0.4775
		Dif.	0.8507	0.1961	0.2209
24.223	1.200	Max.	-1.2687	0.5253	-0.2054
		Min.	-2.0890	0.3073	-0.4320
		Dif.	0.8203	0.2180	0.2266
24.223	1.450	Max.	-1.1891	0.4735	-0.1711
		Min.	-1.9720	0.2244	-0.3959
		Dif.	0.7829	0.2491	0.2248
24.223	1.700	Max.	-1.1341	0.3868	-0.1439
		Min.	-1.8735	0.0941	-0.3569
		Dif.	0.7395	0.2926	0.2130
24.223	1.740	Max.	-1.1233	0.3038	-0.1400
		Min.	-1.8548	-0.0180	-0.3412
		Dif.	0.7314	0.3217	0.2012
24.473	0.100	Max.	-1.6773	0.5988	-0.5540
		Min.	-2.5529	0.4371	-0.7807
		Dif.	0.8757	0.1618	0.2267
24.473	0.200	Max.	-1.6301	0.5966	-0.5042
		Min.	-2.4968	0.4345	-0.7363
		Dif.	0.8667	0.1621	0.2320
24.473	0.450	Max.	-1.5137	0.5847	-0.4334
		Min.	-2.3571	0.4186	-0.6721
		Dif.	0.8435	0.1661	0.2388
24.473	0.700	Max.	-1.4031	0.5653	-0.3822
		Min.	-2.2216	0.3920	-0.6266
		Dif.	0.8185	0.1733	0.2445
24.473	0.950	Max.	-1.2993	0.5397	-0.3310
		Min.	-2.0912	0.3535	-0.5812
		Dif.	0.7918	0.1862	0.2502



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.473	1.200	Max.	-1.2085	0.5009	-0.2790
		Min.	-1.9701	0.2926	-0.5364
		Dif.	0.7616	0.2082	0.2574
24.473	1.450	Max.	-1.1384	0.4299	-0.2287
		Min.	-1.8642	0.1840	-0.4822
		Dif.	0.7258	0.2458	0.2535
24.473	1.700	Max.	-1.0898	0.3554	-0.1960
		Min.	-1.7807	0.0772	-0.4367
		Dif.	0.6909	0.2782	0.2407
24.473	1.740	Max.	-1.0822	0.3212	-0.1886
		Min.	-1.7698	0.0311	-0.4206
		Dif.	0.6875	0.2902	0.2320
24.723	0.100	Max.	-1.5388	0.5463	-0.5845
		Min.	-2.3571	0.3743	-0.8327
		Dif.	0.8184	0.1720	0.2481
24.723	0.200	Max.	-1.4981	0.5440	-0.5423
		Min.	-2.3066	0.3715	-0.7978
		Dif.	0.8084	0.1725	0.2555
24.723	0.450	Max.	-1.3972	0.5408	-0.4910
		Min.	-2.1802	0.3666	-0.7543
		Dif.	0.7829	0.1742	0.2633
24.723	0.700	Max.	-1.2867	0.5215	-0.4389
		Min.	-2.0447	0.3400	-0.7097
		Dif.	0.7580	0.1815	0.2708
24.723	0.950	Max.	-1.2226	0.4749	-0.3745
		Min.	-1.9483	0.2764	-0.6563
		Dif.	0.7257	0.1985	0.2818
24.723	1.200	Max.	-1.1317	0.4361	-0.3223
		Min.	-1.8273	0.2154	-0.6118
		Dif.	0.6955	0.2208	0.2895
24.723	1.450	Max.	-1.0649	0.3868	-0.2845
		Min.	-1.7430	0.1443	-0.5700
		Dif.	0.6782	0.2425	0.2855
24.723	1.700	Max.	-1.0163	0.3117	-0.2544
		Min.	-1.6777	0.0419	-0.5284
		Dif.	0.6613	0.2697	0.2740
24.723	1.740	Max.	-1.0080	0.2541	-0.2422
		Min.	-1.6662	-0.0322	-0.5063
		Dif.	0.6582	0.2863	0.2640
24.973	0.100	Max.	-1.3920	0.5025	-0.6143
		Min.	-2.1470	0.3212	-0.8819
		Dif.	0.7550	0.1813	0.2676
24.973	0.200	Max.	-1.3566	0.5010	-0.5783
		Min.	-2.1006	0.3192	-0.8561
		Dif.	0.7441	0.1818	0.2779
24.973	0.450	Max.	-1.2684	0.4979	-0.5321
		Min.	-1.9844	0.3146	-0.8215
		Dif.	0.7160	0.1833	0.2893
24.973	0.700	Max.	-1.1974	0.4810	-0.4964
		Min.	-1.8810	0.2924	-0.7936
		Dif.	0.6836	0.1886	0.2972
24.973	0.950	Max.	-1.0908	0.4317	-0.4136
		Min.	-1.7630	0.2198	-0.7221
		Dif.	0.6722	0.2119	0.3085
24.973	1.200	Max.	-1.0260	0.3961	-0.3777
		Min.	-1.6818	0.1736	-0.6944
		Dif.	0.6558	0.2225	0.3166



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
24.973	1.450	Max.	-0.9681	0.3476	-0.3465
		Min.	-1.6078	0.1083	-0.6607
		Dif.	0.6397	0.2393	0.3142
24.973	1.700	Max.	-0.9278	0.2742	-0.3140
		Min.	-1.5525	0.0119	-0.6206
		Dif.	0.6247	0.2624	0.3066
24.973	1.740	Max.	-0.9213	0.2246	-0.2992
		Min.	-1.5434	-0.0515	-0.5980
		Dif.	0.6221	0.2760	0.2987
25.223	0.100	Max.	-1.2373	0.4650	-0.6409
		Min.	-1.9238	0.2757	-0.9279
		Dif.	0.6865	0.1894	0.2871
25.223	0.200	Max.	-1.2066	0.4633	-0.6076
		Min.	-1.8809	0.2732	-0.9072
		Dif.	0.6743	0.1900	0.2996
25.223	0.450	Max.	-1.1225	0.4535	-0.5577
		Min.	-1.7821	0.2602	-0.8717
		Dif.	0.6596	0.1933	0.3140
25.223	0.700	Max.	-1.0431	0.4367	-0.5219
		Min.	-1.6871	0.2379	-0.8439
		Dif.	0.6440	0.1988	0.3220
25.223	0.950	Max.	-0.9690	0.4137	-0.4860
		Min.	-1.5968	0.2077	-0.8162
		Dif.	0.6279	0.2060	0.3302
25.223	1.200	Max.	-0.9042	0.3783	-0.4500
		Min.	-1.5156	0.1614	-0.7886
		Dif.	0.6115	0.2169	0.3386
25.223	1.450	Max.	-0.8544	0.3103	-0.4091
		Min.	-1.4498	0.0738	-0.7495
		Dif.	0.5954	0.2365	0.3403
25.223	1.700	Max.	-0.8231	0.2320	-0.3804
		Min.	-1.4045	-0.0144	-0.7066
		Dif.	0.5814	0.2464	0.3262
25.223	1.740	Max.	-0.8188	0.1923	-0.3602
		Min.	-1.3980	-0.0636	-0.6795
		Dif.	0.5792	0.2559	0.3193
25.473	0.100	Max.	-1.0626	0.4328	-0.6642
		Min.	-1.7018	0.2364	-0.9684
		Dif.	0.6392	0.1964	0.3042
25.473	0.200	Max.	-1.0329	0.4311	-0.6385
		Min.	-1.6654	0.2342	-0.9556
		Dif.	0.6325	0.1970	0.3171
25.473	0.450	Max.	-0.9588	0.4287	-0.6051
		Min.	-1.5743	0.2307	-0.9349
		Dif.	0.6155	0.1980	0.3298
25.473	0.700	Max.	-0.8794	0.4121	-0.5692
		Min.	-1.4794	0.2083	-0.9072
		Dif.	0.6000	0.2038	0.3380
25.473	0.950	Max.	-0.8312	0.3601	-0.5272
		Min.	-1.4096	0.1495	-0.8803
		Dif.	0.5784	0.2106	0.3531
25.473	1.200	Max.	-0.7664	0.3204	-0.4963
		Min.	-1.3284	0.1074	-0.8476
		Dif.	0.5621	0.2129	0.3514
25.473	1.450	Max.	-0.7263	0.2707	-0.4648
		Min.	-1.2721	0.0475	-0.8165
		Dif.	0.5458	0.2232	0.3517



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.473	1.700	Max.	-0.7018	0.1891	-0.4342
		Min.	-1.2349	-0.0512	-0.7832
		Dif.	0.5331	0.2403	0.3490
25.473	1.740	Max.	-0.6956	0.1157	-0.4142
		Min.	-1.2274	-0.1406	-0.7577
		Dif.	0.5317	0.2564	0.3435
25.723	0.100	Max.	-0.8779	0.4078	-0.6835
		Min.	-1.4735	0.2061	-1.0015
		Dif.	0.5956	0.2017	0.3181
25.723	0.200	Max.	-0.8513	0.4069	-0.6641
		Min.	-1.4391	0.2047	-0.9957
		Dif.	0.5879	0.2022	0.3316
25.723	0.450	Max.	-0.7848	0.4047	-0.6364
		Min.	-1.3532	0.2017	-0.9813
		Dif.	0.5684	0.2030	0.3449
25.723	0.700	Max.	-0.7297	0.3752	-0.6239
		Min.	-1.2755	0.1779	-0.9724
		Dif.	0.5458	0.1973	0.3485
25.723	0.950	Max.	-0.6586	0.3247	-0.5733
		Min.	-1.1879	0.1178	-0.9345
		Dif.	0.5293	0.2069	0.3612
25.723	1.200	Max.	-0.6186	0.2894	-0.5354
		Min.	-1.1274	0.0784	-0.9003
		Dif.	0.5089	0.2110	0.3649
25.723	1.450	Max.	-0.5835	0.2379	-0.5115
		Min.	-1.0806	0.0196	-0.8788
		Dif.	0.4970	0.2183	0.3673
25.723	1.700	Max.	-0.5597	0.1627	-0.4817
		Min.	-1.0586	-0.0672	-0.8482
		Dif.	0.4988	0.2299	0.3665
25.723	1.740	Max.	-0.5566	0.1281	-0.4592
		Min.	-1.0569	-0.1078	-0.8206
		Dif.	0.5003	0.2358	0.3614
25.973	0.100	Max.	-0.6879	0.3872	-0.6973
		Min.	-1.2376	0.1816	-1.0258
		Dif.	0.5497	0.2056	0.3285
25.973	0.200	Max.	-0.6638	0.3869	-0.6803
		Min.	-1.2046	0.1806	-1.0232
		Dif.	0.5408	0.2063	0.3429
25.973	0.450	Max.	-0.6043	0.3747	-0.6556
		Min.	-1.1228	0.1763	-1.0041
		Dif.	0.5185	0.1984	0.3484
25.973	0.700	Max.	-0.5492	0.3488	-0.6390
		Min.	-1.0452	0.1489	-0.9994
		Dif.	0.4960	0.1999	0.3604
25.973	0.950	Max.	-0.5011	0.3170	-0.6136
		Min.	-0.9751	0.1153	-0.9818
		Dif.	0.4740	0.2017	0.3682
25.973	1.200	Max.	-0.4567	0.2818	-0.5757
		Min.	-0.9189	0.0760	-0.9475
		Dif.	0.4622	0.2058	0.3718
25.973	1.450	Max.	-0.4186	0.2099	-0.5490
		Min.	-0.8844	-0.0020	-0.9256
		Dif.	0.4658	0.2119	0.3766
25.973	1.700	Max.	-0.3987	0.1221	-0.5180
		Min.	-0.8719	-0.0990	-0.8950
		Dif.	0.4732	0.2211	0.3770



Déplacements dans les noeuds des dalles et planchers réticulés

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Coord. X	Coord. Y		Dép. Z	Rotation X	Rotation Y
25.973	1.740	Max.	-0.3946	0.0561	-0.4910
		Min.	-0.8687	-0.1740	-0.8628
		Dif.	0.4741	0.2301	0.3717
26.223	0.100	Max.	-0.4946	0.3620	-0.7092
		Min.	-0.9969	0.1635	-1.0356
		Dif.	0.5022	0.1984	0.3263
26.223	0.200	Max.	-0.4728	0.3638	-0.6956
		Min.	-0.9650	0.1653	-1.0342
		Dif.	0.4921	0.1985	0.3386
26.223	0.450	Max.	-0.4193	0.3547	-0.6737
		Min.	-0.8862	0.1562	-1.0265
		Dif.	0.4668	0.1986	0.3528
26.223	0.700	Max.	-0.3679	0.3305	-0.6508
		Min.	-0.8130	0.1313	-1.0149
		Dif.	0.4450	0.1992	0.3641
26.223	0.950	Max.	-0.3185	0.2936	-0.6272
		Min.	-0.7536	0.0931	-0.9996
		Dif.	0.4351	0.2005	0.3723
26.223	1.200	Max.	-0.2745	0.2446	-0.5991
		Min.	-0.7107	0.0420	-0.9770
		Dif.	0.4362	0.2026	0.3779
26.223	1.450	Max.	-0.2437	0.1749	-0.5667
		Min.	-0.6836	-0.0309	-0.9469
		Dif.	0.4399	0.2058	0.3802
26.223	1.700	Max.	-0.2313	0.0867	-0.5297
		Min.	-0.6785	-0.1232	-0.9116
		Dif.	0.4472	0.2099	0.3820
26.223	1.740	Max.	-0.2298	0.0401	-0.5044
		Min.	-0.6782	-0.1716	-0.8826
		Dif.	0.4484	0.2117	0.3782
26.320	0.200	Max.	-0.3977	0.3479	-0.7003
		Min.	-0.8707	0.1495	-1.0371
		Dif.	0.4729	0.1983	0.3368
26.320	0.450	Max.	-0.3460	0.3333	-0.6781
		Min.	-0.7925	0.1349	-1.0308
		Dif.	0.4464	0.1984	0.3527
26.320	0.700	Max.	-0.2945	0.3062	-0.6547
		Min.	-0.7229	0.1077	-1.0193
		Dif.	0.4283	0.1985	0.3645
26.320	0.950	Max.	-0.2435	0.2649	-0.6306
		Min.	-0.6687	0.0659	-1.0036
		Dif.	0.4253	0.1990	0.3730
26.320	1.200	Max.	-0.2018	0.2074	-0.6023
		Min.	-0.6279	0.0075	-0.9807
		Dif.	0.4261	0.1999	0.3784
26.320	1.450	Max.	-0.1740	0.1313	-0.5648
		Min.	-0.6037	-0.0699	-0.9473
		Dif.	0.4298	0.2012	0.3824
26.320	1.700	Max.	-0.1637	0.0341	-0.5122
		Min.	-0.6006	-0.1691	-0.8901
		Dif.	0.4369	0.2031	0.3779

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Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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1. DESCRIPTION

Références	Géométrie	Armature
P5, P6, P8, P9, P10	Semelle rectangulaire excentrée Largeur initiale X: 60 cm Largeur initiale Y: 60 cm Largeur finale X: 60 cm Largeur finale Y: 60 cm Largeur semelle X: 120 cm Largeur semelle Y: 120 cm Épaisseur: 80 cm Charges du terrain - Épaisseur: 0.40 m Charges du terrain - Densité: 18.00 kN/m ³ L'interaction terrain-structure n'est pas considérée	Sup X: 7HA16e=17 Sup Y: 7HA16e=17 Inf X: 7HA16e=17 Inf Y: 7HA16e=17
P7	Semelle rectangulaire excentrée Largeur initiale X: 60 cm Largeur initiale Y: 60 cm Largeur finale X: 60 cm Largeur finale Y: 60 cm Largeur semelle X: 120 cm Largeur semelle Y: 120 cm Épaisseur: 80 cm Charges du terrain - Épaisseur: 0.40 m Charges du terrain - Densité: 18.00 kN/m ³ L'interaction terrain-structure n'est pas considérée	X: 7HA16e=17 Y: 7HA16e=17
P11, P12, P13, P14, P15, P16, P17, P18	Semelle rectangulaire excentrée Largeur initiale X: 80 cm Largeur initiale Y: 80 cm Largeur finale X: 80 cm Largeur finale Y: 80 cm Largeur semelle X: 160 cm Largeur semelle Y: 160 cm Épaisseur: 80 cm Charges du terrain - Épaisseur: 0.40 m Charges du terrain - Densité: 18.00 kN/m ³ L'interaction terrain-structure n'est pas considérée	X: 6HA20e=28 Y: 6HA20e=28
P19, P20	Semelle rectangulaire excentrée Largeur initiale X: 90 cm Largeur initiale Y: 90 cm Largeur finale X: 90 cm Largeur finale Y: 90 cm Largeur semelle X: 180 cm Largeur semelle Y: 180 cm Épaisseur: 80 cm Charges du terrain - Épaisseur: 0.40 m Charges du terrain - Densité: 18.00 kN/m ³ L'interaction terrain-structure n'est pas considérée	X: 10HA16e=18 Y: 10HA16e=18

2. VÉRIFICATION

Référence: P5

Dimensions: 120 x 120 x 80

Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17

Vérification

Valeurs

État

Contraintes sur le terrain (A1 - Ensemble B):

Critère de CYPE



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Référence: P5 Dimensions: 120 x 120 x 80 Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.167 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.144 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.181 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.191 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.317 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 177.5 %	Conforme
- En direction Y:	Réserve de sécurité: 83.9 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 369.44	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 56.98	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 26.14 kN·m	Conforme
- En direction Y:	Moment: 31.76 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m² Calculé: 238.8 kN/m²	Conforme
- Situations accidentelles sismiques:	Calculé: 209.7 kN/m²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>		
	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P5:	Minimum: 25 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>		
- Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0015	Conforme



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P5		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Armature supérieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
- Armature supérieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm	
- Nappe d'acier inférieure:	Calculé: 16 mm	Conforme
- Nappe d'acier supérieure:	Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>		
- Armature inf. direction X vers la drt:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Minimum: 28 cm Calculé: 28 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Référence: P5		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Calculé: 28 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 972.61 kN, Force produite par le glissement: 2.63 kN, Effort normal concomitante: 232.92 kN, Aire comprimée de la semelle: 1.44 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 647.39 kN, Force produite par le glissement: 11.36 kN, Effort normal concomitante: 120.19 kN, Aire comprimée de la semelle: 0.985578 m ² (68.4429 %)		
- Relation rupture la plus défavorable (En direction X): 0.09		
- Relation rupture la plus défavorable (En direction Y): 0.10		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P6		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B):		
<i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.267 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.174 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.287 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.298 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.374 MPa	Conforme
Renversement de la semelle:		
<i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 235.9 %	Conforme
- En direction Y:	Réserve de sécurité: 203.7 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		



Récapitulatif fondations

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Référence: P6		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 277.72	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 63.23	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 35.01 kN·m	Conforme
- En direction Y:	Moment: 38.47 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>	Maximum: 5000 kN/m ²	
- Situations durables:	Calculé: 423.3 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 266.6 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P6:	Minimum: 19 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature supérieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
- Armature supérieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm	
- Nappe d'acier inférieure:	Calculé: 16 mm	Conforme
- Nappe d'acier supérieure:	Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	



Récapitulatif fondations

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Référence: P6		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>		
- Armature inf. direction X vers la drt:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Minimum: 28 cm Calculé: 28 cm	Conforme
Longueur minimum des crosses:		
- Armature inf. direction X vers la drt:	Minimum: 13 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Calculé: 28 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1031.81 kN, Force produite par le glissement: 3.72 kN, Effort normal concomitante: 359.87 kN, Aire comprimée de la semelle: 1.44 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 979.81 kN, Force produite par le glissement: 15.50 kN, Effort normal concomitante: 248.35 kN, Aire comprimée de la semelle: 1.44 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.11		



Récapitulatif fondations

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Référence: P6		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
<ul style="list-style-type: none">- Relation rupture la plus défavorable (En direction Y): 0.12- Effort tranchant ultime (En direction X): 0.00 kN- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P7		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.256 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.164 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.275 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.286 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.346 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 222.9 %	Conforme
- En direction Y:	Réserve de sécurité: 246.3 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 286.77	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 72.09	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 34.51 kN·m	Conforme
- En direction Y:	Moment: 34.48 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 403.1 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 251.2 kN/m ²	Conforme



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P7		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17		
Vérification	Valeurs	État
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P7:	Minimum: 15 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1025.05 kN, Force produite par le glissement: 3.57 kN, Effort normal concomitante: 345.37 kN, Aire comprimée de la semelle: 1.44 m² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 967.10 kN, Force produite par le glissement: 13.41 kN, Effort normal concomitante: 234.45 kN, Aire comprimée de la semelle: 1.42963 m² (99.2799 %)		



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P7		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17		
Vérification	Valeurs	État
<ul style="list-style-type: none">- Relation rupture la plus défavorable (En direction X): 0.11- Relation rupture la plus défavorable (En direction Y): 0.11- Effort tranchant ultime (En direction X): 0.00 kN- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P8		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.247 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.163 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.268 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.278 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.358 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 213.0 %	Conforme
- En direction Y:	Réserve de sécurité: 247.1 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 269.98	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 69.16	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 33.19 kN·m	Conforme
- En direction Y:	Moment: 33.33 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 386.2 kN/m ²	Conforme



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C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Référence: P8		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Situations accidentelles sismiques:	Calculé: 242.5 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P8:	Minimum: 17 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature supérieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
- Armature supérieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm	
- Nappe d'acier inférieure:	Calculé: 16 mm	Conforme
- Nappe d'acier supérieure:	Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>		
- Armature inf. direction X vers la drt:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm	Conforme



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C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P8		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Armature sup. direction X vers la drt:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Minimum: 28 cm Calculé: 28 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Calculé: 28 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1019.25 kN, Force produite par le glissement: 3.78 kN, Effort normal concomitante: 332.93 kN, Aire comprimée de la semelle: 1.44 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 934.73 kN, Force produite par le glissement: 13.51 kN, Effort normal concomitante: 213.74 kN, Aire comprimée de la semelle: 1.39177 m ² (96.6506 %)		
- Relation rupture la plus défavorable (En direction X): 0.11		
- Relation rupture la plus défavorable (En direction Y): 0.11		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P9		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.258 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.169 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.275 MPa	Conforme



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Référence: P9		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.286 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.364 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 220.1 %	Conforme
- En direction Y:	Réserve de sécurité: 272.7 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 287.27	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 68.81	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 34.90 kN·m	Conforme
- En direction Y:	Moment: 34.20 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m² Calculé: 406 kN/m²	Conforme
- Situations accidentelles sismiques:	Calculé: 256.9 kN/m²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>		
	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P9:	Minimum: 17 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>		
- Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0015	Conforme
- Armature supérieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
- Armature supérieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: <i>Norme EC-2. Article 9.8.2.1</i>		
	Minimum: 8 mm	



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Référence: P9		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Nappe d'acier inférieure:	Calculé: 16 mm	Conforme
- Nappe d'acier supérieure:	Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>		
- Armature inf. direction X vers la drt:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Minimum: 28 cm Calculé: 28 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Calculé: 28 cm	Conforme



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Date: 25/08/25

Référence: P9		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
- Armature sup. direction Y vers le haut:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Calculé: 28 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1026.22 kN, Force produite par le glissement: 3.57 kN, Effort normal concomitante: 347.88 kN, Aire comprimée de la semelle: 1.44 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 949.92 kN, Force produite par le glissement: 13.80 kN, Effort normal concomitante: 221.58 kN, Aire comprimée de la semelle: 1.41099 m ² (97.9853 %)		
- Relation rupture la plus défavorable (En direction X): 0.11		
- Relation rupture la plus défavorable (En direction Y): 0.11		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P10		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.253 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.165 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.271 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.281 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.364 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 209.1 %	Conforme
- En direction Y:	Réserve de sécurité: 248.0 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 273.56	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 64.72	Conforme



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Référence: P10		
Dimensions: 120 x 120 x 80		
Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17		
Vérification	Valeurs	État
Flexion dans la semelle:		
- En direction X:	Moment: 34.13 kN·m	Conforme
- En direction Y:	Moment: 34.32 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle:		
<i>Critère de CYPE</i>	Maximum: 5000 kN/m ²	
- Situations durables:	Calculé: 396.3 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 250.4 kN/m ²	Conforme
Hauteur minimale:		
<i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P10:	Minimum: 19 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum:		
<i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature supérieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
- Armature supérieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres:		
<i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm	
- Nappe d'acier inférieure:	Calculé: 16 mm	Conforme
- Nappe d'acier supérieure:	Calculé: 16 mm	Conforme
Espacement maximal entre les barres:		
<i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme
Espacement minimal entre les barres:		
<i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 17 cm	Conforme
- Armature inférieure direction Y:	Calculé: 17 cm	Conforme
- Armature supérieure direction X:	Calculé: 17 cm	Conforme
- Armature supérieure direction Y:	Calculé: 17 cm	Conforme



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Date: 25/08/25

Référence: P10

Dimensions: 120 x 120 x 80

Armatures: Xi:HA16e=17 Yi:HA16e=17 Xs:HA16e=17 Ys:HA16e=17

Vérification	Valeurs	État
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>		
- Armature inf. direction X vers la drt:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Minimum: 28 cm Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Minimum: 28 cm Calculé: 28 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
- Armature sup. direction X vers la drt:	Calculé: 28 cm	Conforme
- Armature sup. direction X vers la gch:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le haut:	Calculé: 28 cm	Conforme
- Armature sup. direction Y vers le bas:	Calculé: 28 cm	Conforme

Toutes les conditions sont vérifiées

Informations supplémentaires:

- Semelle de type rigide
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1022.76 kN, Force produite par le glissement: 3.74 kN, Effort normal concomitante: 340.46 kN, Aire comprimée de la semelle: 1.44 m² (100 %)
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 926.65 kN, Force produite par le glissement: 14.32 kN, Effort normal concomitante: 214.64 kN, Aire comprimée de la semelle: 1.37761 m² (95.6675 %)
- Relation rupture la plus défavorable (En direction X): 0.11
- Relation rupture la plus défavorable (En direction Y): 0.11
- Effort tranchant ultime (En direction X): 0.00 kN
- Effort tranchant ultime (En direction Y): 0.00 kN

Référence: P11

Dimensions: 160 x 160 x 80



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Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i> - Contrainte moyenne en situations durables: - Contrainte moyenne en situations accidentelles sismiques: - Contrainte maximale en situations durables sans vent: - Contrainte maximale en situations durables avec vent: - Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.300 MPa Calculé: 0.203 MPa Maximum: 0.450 MPa Calculé: 0.136 MPa Maximum: 0.375 MPa Calculé: 0.209 MPa Maximum: 0.399 MPa Calculé: 0.216 MPa Maximum: 0.675 MPa Calculé: 0.224 MPa	Conforme Conforme Conforme Conforme Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i> - En direction X: - En direction Y:	Réserve de sécurité: 533.2 % Réserve de sécurité: 526.4 %	Conforme Conforme
Glissement de la semelle (A1 - Ensemble B): - Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i> - Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.5 Calculé: 466.53 Minimum: 1.2 Calculé: 109.2	Conforme Conforme
Flexion dans la semelle: - En direction X: - En direction Y:	Moment: 65.10 kN·m Moment: 67.39 kN·m	Conforme Conforme
Effort tranchant dans la semelle: - En direction X: - En direction Y:	Effort tranchant: 0.00 kN Effort tranchant: 0.00 kN	Conforme Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i> - Situations durables: - Situations accidentelles sismiques:	Maximum: 5000 kN/m² Calculé: 545 kN/m² Calculé: 356.1 kN/m²	Conforme Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P11:	Minimum: 16 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i> - Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0015	Conforme



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Référence: P11		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres:		
- Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1764.93 kN, Force produite par le glissement: 3.78 kN, Effort normal concomitante: 490.95 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1692.47 kN, Force produite par le glissement: 15.50 kN, Effort normal concomitante: 335.55 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.13		
- Relation rupture la plus défavorable (En direction Y): 0.14		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P12		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État



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Référence: P12		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.216 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.148 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.229 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.236 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.258 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 566.0 %	Conforme
- En direction Y:	Réserve de sécurité: 365.9 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 309.01	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 80.59	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 71.15 kN·m	Conforme
- En direction Y:	Moment: 69.74 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 588 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 394.9 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P12:	Minimum: 25 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	



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Référence: P12		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1779.25 kN, Force produite par le glissement: 5.76 kN, Effort normal concomitante: 521.65 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1708.44 kN, Force produite par le glissement: 21.20 kN, Effort normal concomitante: 369.81 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.15		
- Relation rupture la plus défavorable (En direction Y): 0.16		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P13		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		



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Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i> <ul style="list-style-type: none">- Contrainte moyenne en situations durables:- Contrainte moyenne en situations accidentelles sismiques:- Contrainte maximale en situations durables sans vent:- Contrainte maximale en situations durables avec vent:- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.300 MPa Calculé: 0.222 MPa Maximum: 0.450 MPa Calculé: 0.154 MPa Maximum: 0.375 MPa Calculé: 0.228 MPa Maximum: 0.399 MPa Calculé: 0.233 MPa Maximum: 0.675 MPa Calculé: 0.259 MPa	Conforme Conforme Conforme Conforme Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i> <ul style="list-style-type: none">- En direction X:- En direction Y:	Réserve de sécurité: 583.3 % Réserve de sécurité: 402.2 %	Conforme Conforme
Glissement de la semelle (A1 - Ensemble B): <ul style="list-style-type: none">- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.5 Calculé: 678.56 Minimum: 1.2 Calculé: 93.11	Conforme Conforme
Flexion dans la semelle: <ul style="list-style-type: none">- En direction X:- En direction Y:	Moment: 73.03 kN·m Moment: 69.83 kN·m	Conforme Conforme
Effort tranchant dans la semelle: <ul style="list-style-type: none">- En direction X:- En direction Y:	Effort tranchant: 0.00 kN Effort tranchant: 0.00 kN	Conforme Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i> <ul style="list-style-type: none">- Situations durables:- Situations accidentelles sismiques:	Maximum: 5000 kN/m ² Calculé: 606.9 kN/m ² Calculé: 417 kN/m ²	Conforme Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: <ul style="list-style-type: none">- P13:	Minimum: 22 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i> <ul style="list-style-type: none">- Armature inférieure direction X:- Armature inférieure direction Y:	Minimum: 0.0013 Calculé: 0.0015 Calculé: 0.0015	Conforme Conforme



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Référence: P13		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Maximum: 30 cm Calculé: 28 cm Calculé: 28 cm	Conforme Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Minimum: 10 cm Calculé: 28 cm Calculé: 28 cm	Conforme Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i> - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm	Conforme Conforme Conforme Conforme
Longueur minimum des crosses: - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm	Conforme Conforme Conforme Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires: - Semelle de type rigide - Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1787.64 kN, Force produite par le glissement: 2.63 kN, Effort normal concomitante: 539.65 kN, Aire comprimée de la semelle: 2.56 m ² (100 %) - Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1707.69 kN, Force produite par le glissement: 18.34 kN, Effort normal concomitante: 368.18 kN, Aire comprimée de la semelle: 2.56 m ² (100 %) - Relation rupture la plus défavorable (En direction X): 0.15 - Relation rupture la plus défavorable (En direction Y): 0.16 - Effort tranchant ultime (En direction X): 0.00 kN - Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P14		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		



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Référence: P14		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.208 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.134 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.223 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.228 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.251 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 474.5 %	Conforme
- En direction Y:	Réserve de sécurité: 433.5 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 393.04	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 89.82	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 68.84 kN·m	Conforme
- En direction Y:	Moment: 70.52 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 562.2 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 351.9 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>		
	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P14:	Minimum: 24 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>		
- Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0015	Conforme



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Référence: P14		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres:		
- Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1765.52 kN, Force produite par le glissement: 4.49 kN, Effort normal concomitante: 492.22 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1696.45 kN, Force produite par le glissement: 18.89 kN, Effort normal concomitante: 344.09 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.14		
- Relation rupture la plus défavorable (En direction Y): 0.14		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P15		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État



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Référence: P15		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.237 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.145 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.250 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.255 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.231 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 522.9 %	Conforme
- En direction Y:	Réserve de sécurité: 612.6 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 491.65	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 117.75	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 79.91 kN·m	Conforme
- En direction Y:	Moment: 80.85 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 658.2 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 386.6 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P15:	Minimum: 14 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	



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Référence: P15		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1797.32 kN, Force produite par le glissement: 3.66 kN, Effort normal concomitante: 560.41 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1691.06 kN, Force produite par le glissement: 14.36 kN, Effort normal concomitante: 332.53 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.16		
- Relation rupture la plus défavorable (En direction Y): 0.16		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P16		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		



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Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.228 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.140 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.245 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.249 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.237 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 509.7 %	Conforme
- En direction Y:	Réserve de sécurité: 613.4 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 396.89	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 108.56	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 76.84 kN·m	Conforme
- En direction Y:	Moment: 78.46 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 629 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 371.6 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P16:	Minimum: 16 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme



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Référence: P16		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Maximum: 30 cm Calculé: 28 cm Calculé: 28 cm	Conforme Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Minimum: 10 cm Calculé: 28 cm Calculé: 28 cm	Conforme Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i> - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm	Conforme Conforme Conforme Conforme
Longueur minimum des crosses: - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm Calculé: 24 cm	Conforme Conforme Conforme Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires: - Semelle de type rigide - Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1787.98 kN, Force produite par le glissement: 4.50 kN, Effort normal concomitante: 540.37 kN, Aire comprimée de la semelle: 2.56 m ² (100 %) - Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1703.60 kN, Force produite par le glissement: 15.69 kN, Effort normal concomitante: 359.43 kN, Aire comprimée de la semelle: 2.56 m ² (100 %) - Relation rupture la plus défavorable (En direction X): 0.16 - Relation rupture la plus défavorable (En direction Y): 0.16 - Effort tranchant ultime (En direction X): 0.00 kN - Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P17		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		



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Référence: P17 Dimensions: 160 x 160 x 80 Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.285 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.175 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.295 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.300 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.259 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 674.3 %	Conforme
- En direction Y:	Réserve de sécurité: 822.8 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 550.95	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 124.14	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 97.61 kN·m	Conforme
- En direction Y:	Moment: 99.33 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 815 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 484.9 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>		
	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P17:	Minimum: 14 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>		
- Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0015	Conforme



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Référence: P17		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres:		
- Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1850.77 kN, Force produite par le glissement: 3.36 kN, Effort normal concomitante: 675.02 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1723.70 kN, Force produite par le glissement: 13.89 kN, Effort normal concomitante: 402.52 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.20		
- Relation rupture la plus défavorable (En direction Y): 0.20		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P18		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État



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Référence: P18		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.182 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.111 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.201 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.205 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.186 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 369.2 %	Conforme
- En direction Y:	Réserve de sécurité: 431.3 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 349.53	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 112.26	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 59.42 kN·m	Conforme
- En direction Y:	Moment: 60.60 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 475.8 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 276.6 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation: - P18:	Minimum: 16 cm Calculé: 73 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	



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Référence: P18		
Dimensions: 160 x 160 x 80		
Armatures: Xi:HA20e=28 Yi:HA20e=28		
Vérification	Valeurs	État
- Armature inférieure direction X:	Calculé: 0.0015	Conforme
- Armature inférieure direction Y:	Calculé: 0.0015	Conforme
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 20 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 28 cm	Conforme
- Armature inférieure direction Y:	Calculé: 28 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 24 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Longueur minimum des crosses:	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 24 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 24 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 24 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 1736.11 kN, Force produite par le glissement: 4.97 kN, Effort normal concomitante: 429.13 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 1665.79 kN, Force produite par le glissement: 14.84 kN, Effort normal concomitante: 278.34 kN, Aire comprimée de la semelle: 2.56 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.12		
- Relation rupture la plus défavorable (En direction Y): 0.12		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P19		
Dimensions: 180 x 180 x 80		
Armatures: Xi:HA16e=18 Yi:HA16e=18		



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Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.269 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.173 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.283 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.288 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.238 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 878.3 %	Conforme
- En direction Y:	Réserve de sécurité: 959.8 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 422.91	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 137.06	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 136.62 kN·m	Conforme
- En direction Y:	Moment: 135.71 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 958.5 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 604 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P19:	Minimum: 16 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>	Minimum: 0.0013	
- Armature inférieure direction X:	Calculé: 0.0014	Conforme
- Armature inférieure direction Y:	Calculé: 0.0014	Conforme



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Référence: P19		
Dimensions: 180 x 180 x 80		
Armatures: Xi:HA16e=18 Yi:HA16e=18		
Vérification	Valeurs	État
Diamètre minimum des barres: - Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Maximum: 30 cm Calculé: 18 cm Calculé: 18 cm	Conforme Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i> - Armature inférieure direction X: - Armature inférieure direction Y:	Minimum: 10 cm Calculé: 18 cm Calculé: 18 cm	Conforme Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i> - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 19 cm Calculé: 19 cm Calculé: 19 cm Calculé: 19 cm Calculé: 19 cm	Conforme Conforme Conforme Conforme
Longueur minimum des crosses: - Armature inf. direction X vers la drt: - Armature inf. direction X vers la gch: - Armature inf. direction Y vers le haut: - Armature inf. direction Y vers le bas:	Minimum: 13 cm Calculé: 19 cm Calculé: 19 cm Calculé: 19 cm Calculé: 19 cm	Conforme Conforme Conforme Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires: - Semelle de type rigide - Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 2321.77 kN, Force produite par le glissement: 5.49 kN, Effort normal concomitante: 810.13 kN, Aire comprimée de la semelle: 3.24 m ² (100 %) - Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 2196.06 kN, Force produite par le glissement: 16.02 kN, Effort normal concomitante: 540.53 kN, Aire comprimée de la semelle: 3.24 m ² (100 %) - Relation rupture la plus défavorable (En direction X): 0.26 - Relation rupture la plus défavorable (En direction Y): 0.25 - Effort tranchant ultime (En direction X): 0.00 kN - Effort tranchant ultime (En direction Y): 0.00 kN		
Référence: P20		
Dimensions: 180 x 180 x 80		
Armatures: Xi:HA16e=18 Yi:HA16e=18		
Vérification	Valeurs	État
Contraintes sur le terrain (A1 - Ensemble B): <i>Critère de CYPE</i>		



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P20		
Dimensions: 180 x 180 x 80		
Armatures: Xi:HA16e=18 Yi:HA16e=18		
Vérification	Valeurs	État
- Contrainte moyenne en situations durables:	Maximum: 0.300 MPa Calculé: 0.284 MPa	Conforme
- Contrainte moyenne en situations accidentelles sismiques:	Maximum: 0.450 MPa Calculé: 0.168 MPa	Conforme
- Contrainte maximale en situations durables sans vent:	Maximum: 0.375 MPa Calculé: 0.299 MPa	Conforme
- Contrainte maximale en situations durables avec vent:	Maximum: 0.399 MPa Calculé: 0.303 MPa	Conforme
- Contrainte maximale en situations accidentelles sismiques:	Maximum: 0.675 MPa Calculé: 0.244 MPa	Conforme
Renversement de la semelle: <i>Si le % de réserve de sécurité est supérieur à zéro, cela veut dire que les coefficients de sécurité au renversement sont supérieurs aux valeurs strictes exigées pour toutes les combinaisons d'équilibre.</i>		
- En direction X:	Réserve de sécurité: 891.4 %	Conforme
- En direction Y:	Réserve de sécurité: 618.9 %	Conforme
Glissement de la semelle (A1 - Ensemble B):		
- Situations durables: <i>Recommandation de l'ouvrage 'Cálculo de estructuras de cimentación', J. Calavera. 4ª edición, ed. INTEMAC, 2000..</i>	Minimum: 1.5 Calculé: 397.63	Conforme
- Situations accidentelles: <i>Recommandation de l'ouvrage 'Muros de Contención y Muros de Sótano', J. Calavera. 2ª edición, ed. INTEMAC, 1989.</i>	Minimum: 1.2 Calculé: 104.62	Conforme
Flexion dans la semelle:		
- En direction X:	Moment: 144.85 kN·m	Conforme
- En direction Y:	Moment: 146.18 kN·m	Conforme
Effort tranchant dans la semelle:		
- En direction X:	Effort tranchant: 0.00 kN	Conforme
- En direction Y:	Effort tranchant: 0.00 kN	Conforme
Compression oblique dans la semelle: <i>Critère de CYPE</i>		
- Situations durables:	Maximum: 5000 kN/m ² Calculé: 1021.7 kN/m ²	Conforme
- Situations accidentelles sismiques:	Calculé: 583.4 kN/m ²	Conforme
Hauteur minimale: <i>Critère de CYPE</i>		
	Minimum: 15 cm Calculé: 80 cm	Conforme
Espace pour ancrer des attentes en fondation:		
- P20:	Minimum: 19 cm Calculé: 74 cm	Conforme
Ratio géométrique minimum: <i>Norme EC-2. Article 9.2.1.1</i>		
- Armature inférieure direction X:	Minimum: 0.0013 Calculé: 0.0014	Conforme



Récapitulatif fondations

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Référence: P20		
Dimensions: 180 x 180 x 80		
Armatures: Xi:HA16e=18 Yi:HA16e=18		
Vérification	Valeurs	État
- Armature inférieure direction Y:	Calculé: 0.0014	Conforme
Diamètre minimum des barres:		
- Nappe d'acier inférieure: <i>Norme EC-2. Article 9.8.2.1</i>	Minimum: 8 mm Calculé: 16 mm	Conforme
Espacement maximal entre les barres: <i>Critère de CYPE</i>	Maximum: 30 cm	
- Armature inférieure direction X:	Calculé: 18 cm	Conforme
- Armature inférieure direction Y:	Calculé: 18 cm	Conforme
Espacement minimal entre les barres: <i>Critère de CYPE</i>	Minimum: 10 cm	
- Armature inférieure direction X:	Calculé: 18 cm	Conforme
- Armature inférieure direction Y:	Calculé: 18 cm	Conforme
Longueur d'ancrage: <i>Norme EC-2. Article 8.4</i>	Minimum: 19 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
Longueur minimum des crosses:	Minimum: 13 cm	
- Armature inf. direction X vers la drt:	Calculé: 19 cm	Conforme
- Armature inf. direction X vers la gch:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le haut:	Calculé: 19 cm	Conforme
- Armature inf. direction Y vers le bas:	Calculé: 19 cm	Conforme
Toutes les conditions sont vérifiées		
Informations supplémentaires:		
- Semelle de type rigide		
- Glissement de la semelle (A1 - Ensemble B) - Situations durables: Résistance face au glissement: 2333.40 kN, Force produite par le glissement: 5.87 kN, Effort normal concomitante: 835.08 kN, Aire comprimée de la semelle: 3.24 m ² (100 %)		
- Glissement de la semelle (A1 - Ensemble B) - Situations accidentelles: Résistance face au glissement: 2170.95 kN, Force produite par le glissement: 20.75 kN, Effort normal concomitante: 486.70 kN, Aire comprimée de la semelle: 3.24 m ² (100 %)		
- Relation rupture la plus défavorable (En direction X): 0.27		
- Relation rupture la plus défavorable (En direction Y): 0.27		
- Effort tranchant ultime (En direction X): 0.00 kN		
- Effort tranchant ultime (En direction Y): 0.00 kN		

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Vérifications E.L.U.

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1. NOTATION

Dans les tables de vérification des poteaux en acier, les vérifications avec un taux de travail inférieur à 10% n'apparaissent pas.

Disp.: Dispositions relatives aux armatures

Arm.: Armatures minimales et maximales

Q: État limite d'épuisement face au cisaillement

N,M: État limite d'épuisement face aux sollicitations normales

Disp. S.: Critères de conception par séisme

Cap.: Conception par capacité

Inc.: Calcul du comportement au feu. Poteaux (EN 1992-1-2:2004, 5.3)

2. POTEAUX

2.1. P5

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	22.5	19.4	Conforme	Conforme	22.5	G, S	Q S.	73.5	11.2	0.9	-0.1	-11.4	Conforme
										G, Q, S	N,M S.	153.1	-13.8	4.8	-4.0	11.7	
		2.633 m	Conforme	Conforme	22.2	42.5	Conforme	Conforme	42.5	G, S	Q S.,N,M S.	81.6	-30.1	0.5	-0.1	-11.4	Conforme
		0.207 m	Conforme	Conforme	22.2	42.5	Conforme	Conforme	42.5	G, S	Q S.,N,M S.	81.6	-30.1	0.5	-0.1	-11.4	Conforme
		Pied	Conforme	Conforme	22.2	42.5	Conforme	Conforme	42.5	G, S	Q S.,N,M S.	81.6	-30.1	0.5	-0.1	-11.4	Conforme
Fondation	30x30	Amorce	Conforme	Conforme	4.2	42.5	Conforme	Conforme	42.5	G, Q, S	Q S.	156.7	32.0	-1.9	-0.9	13.0	Conforme
										G, S	N,M S.	81.6	-30.1	0.5	-0.1	-11.4	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	108.2	-2.2	1.1	-0.5	0.8	Conforme
		2.633 m	Conforme	Conforme	G	116.2	0.9	-2.3	-0.5	0.8	Conforme
		0.207 m	Conforme	Conforme	G	116.2	0.9	-2.3	-0.5	0.8	Conforme
		Pied	Conforme	Conforme	G	116.2	0.9	-2.3	-0.5	0.8	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-



Vérifications E.L.U.

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2.2. P6

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	24.4	21.9	Conforme	Conforme	24.4	G, S	Q S.	185.3	-16.0	0.6	-0.7	15.2	Conforme
										G, Q, S	N,M S.	201.9	-15.2	5.0	-5.1	14.3	
		2.3 m	Conforme	Conforme	24.1	43.8	Conforme	Conforme	43.8	G, S	Q S.	192.5	33.4	-1.6	-0.7	15.2	Conforme
										G, Q, S	N,M S.	209.0	31.0	-11.6	-5.1	14.3	
		0.14 m	Conforme	Conforme	24.1	43.8	Conforme	Conforme	43.8	G, S	Q S.	192.5	33.4	-1.6	-0.7	15.2	Conforme
										G, Q, S	N,M S.	209.0	31.0	-11.6	-5.1	14.3	
		Pied	Conforme	Conforme	24.1	43.8	Conforme	Conforme	43.8	G, S	Q S.	192.5	33.4	-1.6	-0.7	15.2	Conforme
										G, Q, S	N,M S.	209.0	31.0	-11.6	-5.1	14.3	
Fondation	30x30	Amorce	Conforme	Conforme	4.9	43.8	Conforme	Conforme	43.8	G, Q, S	Q S.	209.7	33.7	-1.6	-0.7	15.5	Conforme
										G, Q, S	N,M S.	209.0	31.0	-11.6	-5.1	14.3	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	175.1	-3.5	-0.1	0.1	0.9	Conforme
		2.3 m	Conforme	Conforme	G	182.2	1.2	3.6	0.1	0.9	Conforme
		0.14 m	Conforme	Conforme	G	182.2	1.2	3.6	0.1	0.9	Conforme
		Pied	Conforme	Conforme	G	182.2	1.2	3.6	0.1	0.9	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.3. P7

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	21.6	20.0	Conforme	Conforme	21.6	G, S	Q S.	172.4	-12.9	5.1	-5.3	12.1	Conforme
										G, Q, S	N,M S.	188.7	-13.3	5.1	-5.3	12.3	
		2.3 m	Conforme	Conforme	21.3	39.2	Conforme	Conforme	39.2	G, S	Q S.	179.6	26.3	-11.9	-5.3	12.1	Conforme
										G, Q, S	N,M S.	195.8	26.6	-11.9	-5.3	12.3	
		0.14 m	Conforme	Conforme	21.3	39.2	Conforme	Conforme	39.2	G, S	Q S.	179.6	26.3	-11.9	-5.3	12.1	Conforme
										G, Q, S	N,M S.	195.8	26.6	-11.9	-5.3	12.3	
		Pied	Conforme	Conforme	21.3	39.2	Conforme	Conforme	39.2	G, S	Q S.	179.6	26.3	-11.9	-5.3	12.1	Conforme
										G, Q, S	N,M S.	195.8	26.6	-11.9	-5.3	12.3	
Fondation	30x30	Amorce	Conforme	Conforme	4.3	39.2	Conforme	Conforme	39.2	G, Q, S	Q S.,N,M S.	195.8	26.6	-11.9	-5.3	12.3	Conforme

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	167.2	-3.3	-0.2	0.1	0.9	Conforme
		2.3 m	Conforme	Conforme	G	174.3	1.2	3.5	0.1	0.9	Conforme
		0.14 m	Conforme	Conforme	G	174.3	1.2	3.5	0.1	0.9	Conforme
		Pied	Conforme	Conforme	G	174.3	1.2	3.5	0.1	0.9	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-



Vérifications E.L.U.

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2.4. P8

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN-m)	Myy (kN-m)	Qx (kN)		Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	22.3	20.6	Conforme	Conforme	22.3	G, S	Q S.	168.0	-12.2	7.2	-7.5	11.3	Conforme
										G, Q, S	N,M S.	183.7	-12.6	7.3	-7.5	11.5	
		2.3 m	Conforme	Conforme	22.0	41.8	Conforme	Conforme	41.8	G, S	Q S.	175.1	24.3	-17.0	-7.5	11.3	Conforme
										G, Q, S	N,M S.	190.8	24.6	-17.0	-7.5	11.5	
		0.14 m	Conforme	Conforme	22.0	41.8	Conforme	Conforme	41.8	G, S	Q S.	175.1	24.3	-17.0	-7.5	11.3	Conforme
										G, Q, S	N,M S.	190.8	24.6	-17.0	-7.5	11.5	
		Pied	Conforme	Conforme	22.0	41.8	Conforme	Conforme	41.8	G, S	Q S.	175.1	24.3	-17.0	-7.5	11.3	Conforme
										G, Q, S	N,M S.	190.8	24.6	-17.0	-7.5	11.5	
Fondation	30x30	Amorce	Conforme	Conforme	4.4	41.8	Conforme	Conforme	41.8	G, Q, S	Q S.,N,M S.	190.8	24.6	-17.0	-7.5	11.5	Conforme

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	159.4	-3.2	0.0	0.1	1.1	Conforme
		2.3 m	Conforme	Conforme	G	166.5	1.5	3.3	0.1	1.1	Conforme
		0.14 m	Conforme	Conforme	G	166.5	1.5	3.3	0.1	1.1	Conforme
		Pied	Conforme	Conforme	G	166.5	1.5	3.3	0.1	1.1	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.5. P9

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications						Efforts les plus défavorables						État		
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN-m)	Myy (kN-m)		Qx (kN)	Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	22.5	20.8	Conforme	Conforme	22.5	G, S	Q S.	175.8	-5.8	12.8	-12.9	5.0	Conforme
										G, Q, S	N,M S.	195.0	-11.7	8.3	-8.3	10.6	
		2.3 m	Conforme	Conforme	22.2	41.1	Conforme	Conforme	41.1	G, S	Q S.	183.0	10.3	-28.9	-12.9	5.0	Conforme
										G, Q, S	N,M S.	202.2	22.8	-18.5	-8.3	10.6	
		0.14 m	Conforme	Conforme	22.2	41.1	Conforme	Conforme	41.1	G, S	Q S.	183.0	10.3	-28.9	-12.9	5.0	Conforme
										G, Q, S	N,M S.	202.2	22.8	-18.5	-8.3	10.6	
		Pied	Conforme	Conforme	22.2	41.1	Conforme	Conforme	41.1	G, S	Q S.	183.0	10.3	-28.9	-12.9	5.0	Conforme
										G, Q, S	N,M S.	202.2	22.8	-18.5	-8.3	10.6	
Fondation	30x30	Amorce	Conforme	Conforme	4.4	41.1	Conforme	Conforme	41.1	G, S	Q S.	183.0	10.3	-28.9	-12.9	5.0	Conforme
										G, Q, S	N,M S.	202.2	22.8	-18.5	-8.3	10.6	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	169.1	-3.4	0.2	-0.1	1.0	Conforme
		2.3 m	Conforme	Conforme	G	176.3	1.3	-3.5	-0.1	1.0	Conforme
		0.14 m	Conforme	Conforme	G	176.3	1.3	-3.5	-0.1	1.0	Conforme
		Pied	Conforme	Conforme	G	176.3	1.3	-3.5	-0.1	1.0	Conforme



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.6. P10

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN-m)	Myy (kN-m)	Qx (kN)		Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	23.6	20.9	Conforme	Conforme	23.6	G, S	Q S.	168.9	-7.3	12.6	-12.8	6.5	Conforme
		2.3 m	Conforme	Conforme	23.3	43.6	Conforme	Conforme	43.6	G, Q, S	N,M S.	185.0	-7.7	12.6	-12.8	6.7	
		0.14 m	Conforme	Conforme	23.3	43.6	Conforme	Conforme	43.6	G, S	Q S.,N,M S.	176.0	13.6	-28.8	-12.8	6.5	Conforme
		Pied	Conforme	Conforme	23.3	43.6	Conforme	Conforme	43.6	G, S	Q S.,N,M S.	176.0	13.6	-28.8	-12.8	6.5	Conforme
Fondation	30x30	Amorce	Conforme	Conforme	4.6	43.6	Conforme	Conforme	43.6	G, S	Q S.,N,M S.	176.0	13.6	-28.8	-12.8	6.5	Conforme

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	163.6	-3.3	-0.2	0.1	0.9	Conforme
		2.3 m	Conforme	Conforme	G	170.8	1.2	3.4	0.1	0.9	Conforme
		0.14 m	Conforme	Conforme	G	170.8	1.2	3.4	0.1	0.9	Conforme
		Pied	Conforme	Conforme	G	170.8	1.2	3.4	0.1	0.9	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.7. P11

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications						Efforts les plus défavorables						État		
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)		Qx (kN)	Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	22.5	34.0	Conforme	Conforme	34.0	G, S	Q S.	240.2	-8.7	13.3	-13.2	7.9	Conforme
										G, Q, V	N,M	415.4	-16.8	9.9	-0.9	1.8	
		0.14 m	Conforme	Conforme	22.3	35.9	Conforme	Conforme	35.9	G, S	Q S.	246.2	12.7	-22.3	-13.2	7.9	Conforme
										G, Q, V	N,M	425.0	12.1	-17.2	-0.6	3.1	
		Pied	Conforme	Conforme	22.3	46.4	Conforme	Conforme	46.4	G, S	Q S.	247.4	17.0	-29.4	-13.2	7.9	Conforme
										G, Q, S	N,M S.	266.9	17.2	-29.5	-13.2	8.1	
Fondation	30x30	Amorce	Conforme	Conforme	4.8	46.4	Conforme	Conforme	46.4	G, S	Q S.	247.4	17.0	-29.4	-13.2	7.9	Conforme
										G, Q, S	N,M S.	266.9	17.2	-29.5	-13.2	8.1	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	235.5	-4.7	0.6	-0.3	1.0	Conforme
		0.14 m	Conforme	Conforme	G	241.5	0.8	-4.8	-0.3	1.0	Conforme
		Pied	Conforme	Conforme	G	242.7	1.3	-4.9	-0.3	1.0	Conforme



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Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.8. P12

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	29.2	37.1	Conforme	Conforme	37.1	G, S	Q S.	272.1	-21.9	4.9	-5.4	20.2	Conforme
										G, Q, V	N,M	449.4	-18.2	-11.4	1.7	3.5	
		2.3 m	Conforme	Conforme	28.9	58.8	Conforme	Conforme	58.8	G, S	Q S.	279.3	43.6	-12.7	-5.4	20.2	Conforme
										G, Q,	N, M S.	301.1	44.0	-12.6	-5.4	20.5	
		0.14 m	Conforme	Conforme	28.9	58.8	Conforme	Conforme	58.8	G, S	Q S.	279.3	43.6	-12.7	-5.4	20.2	Conforme
										G, Q, S	N, M S.	301.1	44.0	-12.6	-5.4	20.5	
		Pied	Conforme	Conforme	28.9	58.8	Conforme	Conforme	58.8	G, S	Q S.	279.3	43.6	-12.7	-5.4	20.2	Conforme
										G, Q, S	N, M S.	301.1	44.0	-12.6	-5.4	20.5	
Fondation	30x30	Amorce	Conforme	Conforme	6.4	58.8	Conforme	Conforme	58.8	G, S	Q S.	279.3	43.6	-12.7	-5.4	20.2	Conforme
										G, Q, S	N, M S.	301.1	44.0	-12.6	-5.4	20.5	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	251.5	-5.0	-0.7	0.4	1.8	Conforme
		2.3 m	Conforme	Conforme	G	258.7	2.6	5.2	0.4	1.8	Conforme
		0.14 m	Conforme	Conforme	G	258.7	2.6	5.2	0.4	1.8	Conforme
		Pied	Conforme	Conforme	G	258.7	2.6	5.2	0.4	1.8	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.9. P13

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	26.0	38.5	Conforme	Conforme	38.5	G, S	Q S.	248.2	-16.3	6.9	-6.4	16.8	Conforme
										G, Q, V	N,M	463.6	18.8	12.1	-1.6	-0.8	
		0.14 m	Conforme	Conforme	25.8	42.4	Conforme	Conforme	42.4	G, S	Q S.	254.2	29.1	-10.4	-6.4	16.8	Conforme
										G, Q, S	N, M S.	312.1	-27.1	15.1	8.6	-15.8	
		Pied	Conforme	Conforme	25.7	55.6	Conforme	Conforme	55.6	G, S	Q S.	255.4	38.2	-13.9	-6.4	16.8	Conforme
										G, S	N, M S.	261.3	34.0	-21.4	-9.8	15.0	
Fondation	30x30	Amorce	Conforme	Conforme	5.5	55.6	Conforme	Conforme	55.6	G, S	Q S.	255.4	38.2	-13.9	-6.4	16.8	Conforme
										G, S	N, M S.	261.3	34.0	-21.4	-9.8	15.0	

Section de béton - Situation d'incendie											
Tronçon	Dimension	Position	Vérifications		Efforts les plus défavorables						État



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	(cm)		Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	270.3	5.4	1.0	-0.5	-0.4	Conforme
		0.14 m	Conforme	Conforme	G	276.3	-5.5	-0.5	-0.5	-0.4	Conforme
		Pied	Conforme	Conforme	G	277.5	-0.7	-5.5	-0.5	-0.4	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.10. P14

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	27.2	37.7	Conforme	Conforme	37.7	G, S	Q S.	241.0	14.4	-13.4	12.7	-13.7	Conforme
										G, Q, V	N,M	430.2	14.7	-17.4	1.4	-4.0	
		0.14 m	Conforme	Conforme	27.0	42.8	Conforme	Conforme	42.8	G, S	Q S.	247.0	-22.5	20.8	12.7	-13.7	Conforme
										G, Q, S	N,M S.	274.2	-22.8	20.9	12.7	-13.9	
		Pied	Conforme	Conforme	26.9	57.8	Conforme	Conforme	57.8	G, S	Q S.	248.2	-29.9	27.6	12.7	-13.7	Conforme
										G, Q, S	N,M S.	275.4	-30.3	27.8	12.7	-13.9	
Fondation	30x30	Amorce	Conforme	Conforme	5.7	57.8	Conforme	Conforme	57.8	G, S	Q S.	248.2	-29.9	27.6	12.7	-13.7	Conforme
										G, Q, S	N,M S.	275.4	-30.3	27.8	12.7	-13.9	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	217.3	2.1	-4.3	0.8	-1.3	Conforme
		0.14 m	Conforme	Conforme	G	223.2	-4.5	0.8	0.8	-1.3	Conforme
		Pied	Conforme	Conforme	G	224.4	-4.5	1.3	0.8	-1.3	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.11. P15

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	20.5	42.6	Conforme	Conforme	42.6	G, S	Q S.	256.7	0.5	15.3	-14.4	-0.1	Conforme
										G, Q, V	N,M	505.5	14.3	20.5	-1.8	-2.9	
		2.3 m	Conforme	Conforme	20.3	43.4	Conforme	Conforme	43.4	G, S	Q S.	263.9	0.3	-31.2	-14.4	-0.1	Conforme
										G, S	N,M S.	257.0	21.8	-22.2	-10.3	9.5	
		0.14 m	Conforme	Conforme	20.3	43.4	Conforme	Conforme	43.4	G,	Q S.	263.9	0.3	-31.2	-14.4	-0.1	Conforme
										G, S	N,M S.	257.0	21.8	-22.2	-10.3	9.5	
		Pied	Conforme	Conforme	20.3	43.4	Conforme	Conforme	43.4	G, S	Q S.	263.9	0.3	-31.2	-14.4	-0.1	Conforme
										G, S	N,M S.	257.0	21.8	-22.2	-10.3	9.5	
Fondation	30x30	Amorce	Conforme	Conforme	4.4	43.4	Conforme	Conforme	43.4	G, S	Q S.	263.9	0.3	-31.2	-14.4	-0.1	Conforme
										G, S	N,M S.	257.0	21.8	-22.2	-10.3	9.5	
										G, S	N,M S.	257.0	21.8	-22.2	-10.3	9.5	

Section de béton - Situation d'incendie						État
Tronçon	Dimension	Position	Vérifications	Efforts les plus défavorables		



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	(cm)		Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	255.9	5.1	1.9	-1.1	-0.8	Conforme
		2.3 m	Conforme	Conforme	G	263.0	-1.3	-5.3	-1.1	-0.8	Conforme
		0.14 m	Conforme	Conforme	G	263.0	-1.3	-5.3	-1.1	-0.8	Conforme
		Pied	Conforme	Conforme	G	263.0	-1.3	-5.3	-1.1	-0.8	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.12. P16

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	22.1	41.9	Conforme	Conforme	41.9	G, S	Q S.	253.6	12.3	-11.0	10.3	-11.5	Conforme
										G, Q, V	N,M	482.6	15.8	-19.6	1.6	-4.0	
		2.3 m	Conforme	Conforme	21.9	47.0	Conforme	Conforme	47.0	G, S	Q S.	260.7	-25.0	22.3	10.3	-11.5	Conforme
										G, Q, S	N,M S.	290.8	-25.5	22.5	10.4	-11.8	
		0.14 m	Conforme	Conforme	21.9	47.0	Conforme	Conforme	47.0	G, S	Q S.	260.7	-25.0	22.3	10.3	-11.5	Conforme
										G, Q, S	N,M S.	290.8	-25.5	22.5	10.4	-11.8	
		Pied	Conforme	Conforme	21.9	47.0	Conforme	Conforme	47.0	G, S	Q S.	260.7	-25.0	22.3	10.3	-11.5	Conforme
										G, Q, S	N,M S.	290.8	-25.5	22.5	10.4	-11.8	
Fondation	30x30	Amorce	Conforme	Conforme	4.7	47.0	Conforme	Conforme	47.0	G, S	Q S.	260.7	-25.0	22.3	10.3	-11.5	Conforme
										G, Q, S	N,M S.	290.8	-25.5	22.5	10.4	-11.8	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	245.9	2.2	-4.9	0.9	-1.4	Conforme
		2.3 m	Conforme	Conforme	G	253.0	-5.1	1.4	0.9	-1.4	Conforme
		0.14 m	Conforme	Conforme	G	253.0	-5.1	1.4	0.9	-1.4	Conforme
		Pied	Conforme	Conforme	G	253.0	-5.1	1.4	0.9	-1.4	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.13. P17

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)		Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	18.7	52.1	Conforme	Conforme	52.1	G, Q, S	Q S.	364.0	1.2	14.6	-14.0	-0.7	Conforme
										G, Q, V	N,M	628.2	16.5	25.3	-1.1	-2.8	
		2.3 m	Conforme	Conforme	18.7	58.4	Conforme	Conforme	58.4	G, Q, S	Q S.	371.2	-1.1	-30.6	-14.0	-0.7	Conforme
										G, Q, S	N,M S.	378.0	-31.5	28.0	8.5	-10.4	
		0.14 m	Conforme	Conforme	18.7	58.4	Conforme	Conforme	58.4	G, Q, S	Q S.	371.2	-1.1	-30.6	-14.0	-0.7	Conforme
										G, Q, S	N,M S.	378.0	-31.5	28.0	8.5	-10.4	
		Pied	Conforme	Conforme	18.7	58.4	Conforme	Conforme	58.4	G, Q, S	Q S.	371.2	-1.1	-30.6	-14.0	-0.7	Conforme
										G, Q, S	N,M S.	378.0	-31.5	28.0	8.5	-10.4	
Fondation	30x30	Amorce	Conforme	Conforme	4.1	58.4	Conforme	Conforme	58.4	G, S	Q S.	333.9	-0.8	-30.5	-13.9	-0.5	Conforme
										G, Q, S	N,M S.	378.0	-31.5	28.0	8.5	-10.4	



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Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	326.6	1.2	6.5	-0.6	-0.8	Conforme
		2.3 m	Conforme	Conforme	G	333.8	-6.7	-0.8	-0.6	-0.8	Conforme
		0.14 m	Conforme	Conforme	G	333.8	-6.7	-0.8	-0.6	-0.8	Conforme
		Pied	Conforme	Conforme	G	333.8	-6.7	-0.8	-0.6	-0.8	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.14. P18

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	23.8	32.5	Conforme	Conforme	32.5	G, S	Q S.	178.3	2.2	-15.6	14.6	-1.3	Conforme
										G, Q, V	N,M	362.7	13.5	-14.7	2.3	-4.2	
		2.3 m	Conforme	Conforme	23.5	40.1	Conforme	Conforme	40.1	G, S	Q S.	185.4	-2.2	31.6	14.6	-1.3	Conforme
										G, Q, S	N,M S.	209.7	-2.6	31.9	14.8	-1.6	
		0.14 m	Conforme	Conforme	23.5	40.1	Conforme	Conforme	40.1	G, S	Q S.	185.4	-2.2	31.6	14.6	-1.3	Conforme
										G, Q, S	N,M S.	209.7	-2.6	31.9	14.8	-1.6	
		Pied	Conforme	Conforme	23.5	40.1	Conforme	Conforme	40.1	G, S	Q S.	185.4	-2.2	31.6	14.6	-1.3	Conforme
										G, Q, S	N,M S.	209.7	-2.6	31.9	14.8	-1.6	
Fondation	30x30	Amorce	Conforme	Conforme	4.7	40.1	Conforme	Conforme	40.1	G, S	Q S.	185.4	-2.2	31.6	14.6	-1.3	Conforme
										G, Q, S	N,M S.	209.7	-2.6	31.9	14.8	-1.6	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	178.3	2.2	-3.6	1.3	-1.4	Conforme
		2.3 m	Conforme	Conforme	G	185.5	-3.7	2.0	1.3	-1.4	Conforme
		0.14 m	Conforme	Conforme	G	185.5	-3.7	2.0	1.3	-1.4	Conforme
		Pied	Conforme	Conforme	G	185.5	-3.7	2.0	1.3	-1.4	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.15. P19

Section de béton - Température ambiante																		
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État		
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN.m)	Myy (kN.m)	Qx (kN)		Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	21.4	62.3	Conforme	Conforme	62.3	G, Q, S G, Q, V	Q S. N,M	446.5 742.3	11.8 28.9	28.3 22.1	-16.0 -4.7	-1.2 -1.7	Conforme	
			2.3 m	Conforme	Conforme	21.4	61.0	Conforme	Conforme	61.0	G, Q, S G, Q, V	Q S. N,M	447.7 746.1	11.2 29.0	19.7 19.4	-16.0 -4.4	-1.2 -2.9	Conforme
		Pied	Conforme	Conforme	21.4	67.8	Conforme	Conforme	67.8	G, Q, S G, Q, S	Q S. N,M S.	453.6 469.1	-12.5 -34.6	-44.0 -34.0	-16.0 -11.4	-1.2 -10.9	Conforme	
			Fondation	30x30	Amorce	Conforme	Conforme	4.7	67.8	Conforme	Conforme	67.8	G, Q, S Q S.,N,M S.	469.1	-34.6	-34.0	-11.4	-10.9



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	393.8	16.0	12.3	-2.4	-0.8	Conforme
		2.3 m	Conforme	Conforme	G	395.0	16.0	11.1	-2.4	-0.8	Conforme
		Pied	Conforme	Conforme	G	401.0	-9.6	-16.3	-2.4	-0.8	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.16. P20

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications						Efforts les plus défavorables						État		
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)		Qx (kN)	Qy (kN)
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	28.1	64.8	Conforme	Conforme	64.8	G, Q, S	Q S.	450.8	31.7	-16.0	4.4	-20.5	Conforme
										G, Q, V	N,M	794.3	21.0	-30.4	2.7	-4.6	
		2.3 m	Conforme	Conforme	28.1	75.9	Conforme	Conforme	75.9	G, Q, S	Q S.,N,M S.	457.9	-55.6	18.9	4.4	-20.5	Conforme
		0.14 m	Conforme	Conforme	28.1	75.9	Conforme	Conforme	75.9	G, Q, S	Q S.,N,M S.	457.9	-55.6	18.9	4.4	-20.5	Conforme
		Pied	Conforme	Conforme	28.1	75.9	Conforme	Conforme	75.9	G, Q,	Q S.,N,M S.	457.9	-55.6	18.9	4.4	-20.5	Conforme
Fondation	30x30	Amorce	Conforme	Conforme	5.9	75.9	Conforme	Conforme	75.9	G, S	Q S.	399.8	-53.8	17.4	4.3	-20.3	Conforme
										G, Q, S	N,M S.	457.9	-55.6	18.9	4.4	-20.5	

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 1 (-0.4 - 3.44 m)	30x30	Tête	Conforme	Conforme	G	372.3	10.5	-15.1	1.6	-1.7	Conforme
		2.3 m	Conforme	Conforme	G	379.5	-15.4	10.3	1.6	-1.7	Conforme
		0.14 m	Conforme	Conforme	G	379.5	-15.4	10.3	1.6	-1.7	Conforme
		Pied	Conforme	Conforme	G	379.5	-15.4	10.3	1.6	-1.7	Conforme
Fondation	30x30	-	-	-	-	-	-	-	-	-	-

2.17. P21

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications						Efforts les plus défavorables							État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)		Qy (kN)
Plancher 2 (3.44 - 7.23 m)	20x20	Tête	Conforme	Conforme	4.4	4.5	Conforme	Conforme	Conforme	G, Q, V	Q	15.1	0.1	1.3	-1.1	0.2	Conforme
										G, V	N,M	16.1	0.0	1.3	-0.9	0.2	
										G	Disp. S.	11.9	0.0	1.0	-0.7	0.2	
		6.165 m	Conforme	Conforme	4.3	8.3	Conforme	Conforme	Conforme	G, Q, V	Q	19.5	0.6	-2.3	-1.1	0.2	Conforme
										G, Q, V	N,M	19.4	0.6	-2.3	-1.1	0.2	
										G	Disp. S.	15.1	0.5	-1.2	-0.7	0.2	
		3.985 m	Conforme	Conforme	4.3	8.3	Conforme	Conforme	Conforme	G, Q, V	Q	19.5	0.6	-2.3	-1.1	0.2	Conforme
										G, Q, V	N,M	19.4	0.6	-2.3	-1.1	0.2	
										G	Disp. S.	15.1	0.5	-1.2	-0.7	0.2	
		Pied	Conforme	Conforme	4.3	8.3	Conforme	Conforme	Conforme	G, Q, V	Q	19.5	0.6	-2.3	-1.1	0.2	Conforme
										G, Q, V	N,M	19.4	0.6	-2.3	-1.1	0.2	
										G	Disp. S.	15.1	0.5	-1.2	-0.7	0.2	
Fondation	20x20	Amorce	Conforme	Conforme	0.9	8.3	Conforme	Conforme	8.3	G, Q, V	Q	19.5	0.6	-2.3	-1.1	0.2	Conforme
G, Q, V	N,M	19.4	0.6	-2.3	-1.1	0.2											



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 7.23 m)	20x20	Tête	Conforme	Conforme		11.9	0.0	1.0	-0.7	0.2	Conforme
		6.165 m	Conforme	Conforme	G	15.1	0.5	-1.2	-0.7	0.2	Conforme
		3.985 m	Conforme	Conforme	G	15.1	0.5	-1.2	-0.7	0.2	Conforme
		Pied	Conforme	Conforme	G	15.1	0.5	-1.2	-0.7	0.2	Conforme
Fondation	20x20	-	-	-	-	-	-	-	-	-	-

2.18. P23

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 7.29 m)	25x25	Tête	Conforme	Conforme	10.4	17.3	Conforme	Conforme	17.3	G, Q, V	Q,N,M	132.0	2.2	-5.9	3.5	-2.9	Conforme
		5.898 m	Conforme	Conforme	10.3	20.6	Conforme	Conforme	20.6	G, Q, V	Q,N,M	138.1	-6.3	4.4	3.5	-2.9	Conforme
		3.932 m	Conforme	Conforme	10.3	20.6	Conforme	Conforme	20.6	G, Q, V	Q,N,M	138.1	-6.3	4.4	3.5	-2.9	Conforme
		Pied	Conforme	Conforme	10.3	20.6	Conforme	Conforme	20.6	G, Q, V	Q,N,M	138.1	-6.3	4.4	3.5	-2.9	Conforme
Fondation	25x25	Amorce	Conforme	Conforme	2.2	20.6	Conforme	Conforme	20.6	G, Q, V	Q,N,M	138.1	-6.3	4.4	3.5	-2.9	Conforme

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 7.29 m)	25x25	Tête	Conforme	Conforme	G	77.7	1.2	-3.4	2.1	-1.6	Conforme
		5.898 m	Conforme	Conforme	G	82.2	-3.7	2.7	2.1	-1.6	Conforme
		3.932 m	Conforme	Conforme	G	82.2	-3.7	2.7	2.1	-1.6	Conforme
		Pied	Conforme	Conforme	G	82.2	-3.7	2.7	2.1	-1.6	Conforme
Fondation	25x25	-	-	-	-	-	-	-	-	-	-

2.19. P31

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables							État
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	3.2	41.0	Conforme	Conforme	41.0	G, Q, V	Q	321.0	6.5	-12.9	1.5	-0.7	Conforme
										G, Q, V	N,M	321.0	6.5	-12.9	1.4	-0.8	
		5.898 m	Conforme	Conforme	3.2	43.5	Conforme	Conforme	43.5	G, Q, V	Q,N,M	327.2	-13.1	8.3	1.5	-0.7	Conforme
		3.932 m	Conforme	Conforme	3.2	43.5	Conforme	Conforme	43.5	G, Q, V	Q,N,M	327.2	-13.1	8.3	1.5	-0.7	Conforme
Fondation	25x25	Pied	Conforme	Conforme	3.2	43.5	Conforme	Conforme	43.5	G, Q, V	Q,N,M	327.2	-13.1	8.3	1.5	-0.7	Conforme
		Amorce	Conforme	Conforme	0.8	43.5	Conforme	Conforme	43.5	G, Q, V	Q,N,M	327.2	-13.1	8.3	1.5	-0.7	Conforme



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	G	182.7	-1.4	-3.7	0.8	0.5	Conforme
		5.898 m	Conforme	Conforme	G	187.3	3.7	0.9	0.8	0.5	Conforme
		3.932 m	Conforme	Conforme	G	187.3	3.7	0.9	0.8	0.5	Conforme
		Pied	Conforme	Conforme	G	187.3	3.7	0.9	0.8	0.5	Conforme
Fondation	25x25	-	-	-	-	-	-	-	-	-	-

2.20. P32

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)		Qy (kN)
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	3.2	16.3	Conforme	Conforme	16.3	G, Q, V	Q	137.8	0.3	-2.8	1.1	-1.0	Conforme
										G, Q, V	N,M	172.1	-0.3	-3.4	1.3	-0.7	
		5.898 m	Conforme	Conforme	3.2	17.3	Conforme	Conforme	17.3	G, Q, V	Q	142.3	-2.8	1.5	1.1	-1.0	Conforme
										G, Q, V	N,M	178.2	-3.6	1.8	1.3	-0.8	
		3.932 m	Conforme	Conforme	3.2	17.3	Conforme	Conforme	17.3	G, Q, V	Q	142.3	-2.8	1.5	1.1	-1.0	Conforme
										G, Q, V	N,M	178.2	-3.6	1.8	1.3	-0.8	
		Pied	Conforme	Conforme	3.2	17.3	Conforme	Conforme	17.3	G, Q, V	Q	142.3	-2.8	1.5	1.1	-1.0	Conforme
										G, Q, V	N,M	178.2	-3.6	1.8	1.3	-0.8	
Fondation	25x25	Amorce	Conforme	Conforme	0.7	17.3	Conforme	Conforme	17.3	G, Q, V	Q,N,M	178.2	-3.6	1.8	1.3	-0.8	Conforme

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	G	98.0	-2.0	-1.1	0.7	0.5	Conforme
		5.898 m	Conforme	Conforme	G	102.5	-2.1	0.8	0.7	0.5	Conforme
		3.932 m	Conforme	Conforme	G	102.5	-2.1	0.8	0.7	0.5	Conforme
		Pied	Conforme	Conforme	G	102.5	-2.1	0.8	0.7	0.5	Conforme
Fondation	25x25	-	-	-	-	-	-	-	-	-	-

2.21. P33

Section de béton - Température ambiante																	
Tronçon	Dimension (cm)	Position	Vérifications							Efforts les plus défavorables						État	
			Disp.	Arm.	Q (%)	N,M (%)	Disp. S.	Cap.	Taux de trav. (%)	Nature	Vérif.	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)		Qy (kN)
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	7.2	37.3	Conforme	Conforme	37.3	G, Q, V	Q	282.8	-6.7	11.5	-3.7	-0.2	Conforme
										G, Q, V	N,M	282.8	-6.7	11.5	-3.7	-0.1	
		5.898 m	Conforme	Conforme	7.2	38.5	Conforme	Conforme	38.5	G, Q, V	Q	288.9	-7.3	-11.6	-3.7	-0.2	Conforme
										G, Q, V	N,M	289.0	-7.4	-11.6	-3.7	-0.2	
		3.932 m	Conforme	Conforme	7.2	38.5	Conforme	Conforme	38.5	G, Q, V	Q	288.9	-7.3	-11.6	-3.7	-0.2	Conforme
										G, Q, V	N,M	289.0	-7.4	-11.6	-3.7	-0.2	
		Pied	Conforme	Conforme	7.2	38.5	Conforme	Conforme	38.5	G, Q, V	Q	288.9	-7.3	-11.6	-3.7	-0.2	Conforme
										G, Q, V	N,M	289.0	-7.4	-11.6	-3.7	-0.2	
Fondation	25x25	Amorce	Conforme	Conforme	1.8	38.5	Conforme	Conforme	38.5	G, Q, V	Q	288.9	-7.3	-11.6	-3.7	-0.2	Conforme
										G, Q, V	N,M	289.0	-7.4	-11.6	-3.7	-0.2	



Vérifications E.L.U.

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Date: 25/08/25

Section de béton - Situation d'incendie											
Tronçon	Dimension (cm)	Position	Vérifications		Efforts les plus défavorables						État
			Inc.	Taux de trav. (%)	Nature	N (kN)	Mxx (kN·m)	Myy (kN·m)	Qx (kN)	Qy (kN)	
Plancher 2 (3.44 - 6.89 m)	25x25	Tête	Conforme	Conforme	G	161.1	-2.0	3.3	-2.1	0.8	Conforme
		5.898 m	Conforme	Conforme	G	165.6	0.4	-3.3	-2.1	0.8	Conforme
		3.932 m	Conforme	Conforme	G	165.6	0.4	-3.3	-2.1	0.8	Conforme
		Pied	Conforme	Conforme	G	165.6	0.4	-3.3	-2.1	0.8	Conforme
Fondation	25x25	-	-	-	-	-	-	-	-	-	-

3. POUTRES

3.1. Plancher 1

Poutres	CONTRÔLES DE RÉSISTANCE (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)																	État
	Disp.	Arm.	Q	Q.S.	N,M	N,M.S.	T _c	T _{st}	TNM _c	TV _x	TV _y	TV _{st}	TV _{st}	T,Disp.-st	T,Disp.-st	Disp. S.	Cap. S	
P22 - P13	Conforme	Conforme	'0.075 m' η = 88.7	'0.075 m' η = 71.1	'P22' η = 47.1	'P22' η = 33.7	η = 12.0	η = 19.0	'0.000 m' η = 35.7	N.V.(1)	'0.075 m' η = 33.8	N.V.(1)	'0.075 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 96.9
P13 - P14	Conforme	Conforme	'0.681 m' η = 88.2	'0.681 m' η = 65.9	'0.908 m' η = 49.0	'0.908 m' η = 27.0	'2.271 m' η = 4.4	N.V.(2)	N.V.(3)	N.V.(2)	'2.725 m' η = 25.9	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	'0.558 m' Conforme	CONFORME η = 95.2
P14 - P15	Conforme	Conforme	'1.948 m' η = 60.4	'1.948 m' η = 41.6	'P14' η = 65.6	'P14' η = 39.8	'0.000 m' η = 5.7	N.V.(2)	N.V.(3)	N.V.(1)	'0.000 m' η = 17.5	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	'0.558 m' Conforme	CONFORME η = 65.6
P15 - P16	Conforme	Conforme	'3.050 m' η = 65.2	'3.050 m' η = 42.1	'P16' η = 86.0	'P16' η = 47.1	'2.848 m' η = 6.9	'2.848 m' η = 9.4	'3.050 m' η = 77.8	N.V.(2)	'3.050 m' η = 36.0	N.V.(2)	'3.050 m' Conforme	'2.848 m' Conforme	'2.848 m' Conforme	Conforme	'0.973 m' Conforme	CONFORME η = 92.9
P16 - P17	Conforme	Conforme	'3.050 m' η = 76.6	'3.050 m' η = 50.3	'P17' η = 86.7	'P17' η = 48.0	'0.000 m' η = 5.3	'0.000 m' η = 8.5	'0.000 m' η = 76.1	N.V.(1)	'0.000 m' η = 23.2	N.V.(1)	'0.000 m' Conforme	'0.000 m' Conforme	'0.000 m' Conforme	Conforme	'1.623 m' Conforme	CONFORME η = 86.7
P17 - P18	Conforme	Conforme	'0.000 m' η = 62.6	'0.000 m' η = 41.1	'P17' η = 85.0	'P17' η = 47.0	'2.898 m' η = 7.6	'2.898 m' η = 10.5	'2.898 m' η = 45.7	N.V.(2)	'3.050 m' η = 33.7	N.V.(2)	'3.050 m' Conforme	'2.898 m' Conforme	'2.898 m' Conforme	Conforme	'1.023 m' Conforme	CONFORME η = 88.9
P18 - P19	Conforme	Conforme	'1.923 m' η = 86.9	'1.923 m' η = 58.4	'P19' η = 62.8	'P19' η = 35.7	'0.000 m' η = 11.5	N.V.(2)	N.V.(3)	N.V.(1)	'0.000 m' η = 23.7	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.923 m' Conforme	'0.558 m' Conforme	CONFORME η = 86.9
P19 - P20	Conforme	Conforme	'0.000 m' η = 74.9	'0.000 m' η = 50.7	'4.198 m' η = 78.4	'4.198 m' η = 44.0	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'2.734 m' Conforme	'0.000 m' Conforme	CONFORME η = 78.4
P20 - P23	Conforme	Conforme	'0.000 m' η = 48.4	'0.000 m' η = 28.3	'P20' η = 76.4	'P20' η = 40.6	'1.008 m' η = 6.3	'1.008 m' η = 7.2	'1.105 m' η = 53.2	N.V.(2)	'1.105 m' η = 25.7	N.V.(2)	'1.105 m' Conforme	'1.008 m' Conforme	'1.008 m' Conforme	Conforme	Conforme	CONFORME η = 93.4
P42 - P43	Conforme	Conforme	'1.400 m' η = 32.3	'1.400 m' η = 22.6	'0.933 m' η = 33.4	'0.933 m' η = 19.4	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	'0.000 m' Conforme	CONFORME η = 96.1
P3 - P4	Conforme	Conforme	'24.840 m' η = 83.0	'24.840 m' η = 58.5	'24.407 m' η = 42.0	'24.407 m' η = 25.6	'0.450 m' η = 4.5	'0.450 m' η = 16.5	'0.900 m' η = 13.4	N.V.(2)	'0.900 m' η = 6.9	N.V.(2)	'0.900 m' Conforme	'0.450 m' Conforme	'0.450 m' Conforme	Conforme	'0.000 m' Conforme	CONFORME η = 88.2
P21 - P3	Conforme	Conforme	'1.840 m' η = 86.4	'1.840 m' η = 70.3	'1.125 m' η = 39.7	'2.326 m' η = 27.5	'5.728 m' η = 5.0	'5.242 m' η = 31.6	'5.242 m' η = 21.8	N.V.(2)	'5.728 m' η = 7.7	N.V.(2)	'5.242 m' Conforme	'5.242 m' Conforme	'5.242 m' Conforme	Conforme	'0.063 m' Conforme	CONFORME η = 86.9
P14 - P6	Conforme	Conforme	'1.360 m' η = 85.0	'2.325 m' η = 61.5	'1.985 m' η = 55.8	'2.110 m' η = 26.8	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	'0.558 m' Conforme	CONFORME η = 85.0
P6 - P39	Conforme	Conforme	'0.000 m' η = 79.8	'0.000 m' η = 53.2	'P39' η = 41.6	'P39' η = 31.2	η = 9.1	η = 16.1	'0.038 m' η = 30.5	N.V.(1)	'0.000 m' η = 25.1	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 79.8
P25 - P15	Conforme	Conforme	'1.125 m' η = 72.4	'1.125 m' η = 41.4	'1.125 m' η = 38.9	'1.250 m' η = 20.7	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	Conforme	CONFORME η = 72.4
P15 - P7	Conforme	Conforme	'3.110 m' η = 69.2	'3.110 m' η = 50.2	'1.985 m' η = 56.4	'0.558 m' η = 26.8	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	'3.860 m' Conforme	CONFORME η = 69.2
P7 - P38	Conforme	Conforme	'0.000 m' η = 90.2	'0.000 m' η = 60.7	'P38' η = 37.7	'P38' η = 27.5	η = 8.9	η = 18.9	'0.075 m' η = 28.1	N.V.(1)	'0.000 m' η = 23.9	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 90.2
P16 - P8	Conforme	Conforme	'1.360 m' η = 88.7	'2.325 m' η = 59.7	'1.860 m' η = 57.6	'1.985 m' η = 27.3	'4.235 m' η = 3.3	N.V.(2)	N.V.(3)	N.V.(2)	'4.435 m' η = 11.6	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.118 m' Conforme	'0.558 m' Conforme	CONFORME η = 88.7
P8 - P37	Conforme	Conforme	'0.000 m' η = 78.8	'0.000 m' η = 51.9	'P37' η = 36.9	'P37' η = 26.9	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	Conforme	CONFORME η = 78.8
P27 - P17	Conforme	Conforme	'1.125 m' η = 75.4	'1.125 m' η = 42.5	'1.125 m' η = 40.0	'1.250 m' η = 21.2	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	Conforme	CONFORME η = 75.4
P17 - P9	Conforme	Conforme	'3.110 m' η = 69.7	'3.110 m' η = 50.5	'1.985 m' η = 56.6	'0.485 m' η = 27.0	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	'3.860 m' Conforme	CONFORME η = 69.7
P9 - P36	Conforme	Conforme	'0.000 m' η = 90.7	'0.000 m' η = 60.9	'P36' η = 38.2	'P36' η = 28.1	η = 8.9	η = 18.8	'0.075 m' η = 29.8	N.V.(1)	'0.000 m' η = 24.2	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 90.7
P18 - P10	Conforme	Conforme	'1.360 m' η = 81.6	'2.325 m' η = 56.1	'1.985 m' η = 53.9	'1.985 m' η = 26.6	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	'0.558 m' Conforme	CONFORME η = 81.6
P10 - P35	Conforme	Conforme	'0.000 m' η = 88.8	'0.000 m' η = 57.0	'P35' η = 38.0	'P35' η = 28.0	η = 8.8	η = 18.6	'0.038 m' η = 25.8	N.V.(1)	'0.000 m' η = 22.9	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 88.8
P29 - P19	Conforme	Conforme	'1.590 m' η = 48.9	'1.590 m' η = 27.9	'1.125 m' η = 39.7	'1.250 m' η = 22.4	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	Conforme	CONFORME η = 48.9
P19 - P11	Conforme	Conforme	'0.000 m' η = 66.5	'0.000 m' η = 50.1	'1.735 m' η = 55.9	'1.735 m' η = 34.4	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	'0.000 m' Conforme	CONFORME η = 89.6
P11 - P34	Conforme	Conforme	'0.000 m' η = 85.7	'0.000 m' η = 54.6	'P34' η = 40.7	'P34' η = 29.0	η = 8.6	η = 13.7	'0.075 m' η = 27.9	N.V.(1)	'0.000 m' η = 26.4	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 87.8
P41 - P44	Conforme	Conforme	'0.907 m' η = 52.7	'0.907 m' η = 41.0	'2.493 m' η = 47.9	'2.493 m' η = 29.5	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	Conforme	'0.000 m' Conforme	CONFORME η = 96.0
P30 - P20	Conforme	Conforme	'1.590 m' η = 45.2	'1.590 m' η = 24.1	'1.125 m' η = 84.2	'1.250 m' η = 40.6	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.250 m' Conforme	Conforme	CONFORME η = 84.2
P20 - B0	Conforme	Conforme	'0.558 m' η = 47.5	'0.558 m' η = 28.4	'P20' η = 82.5	'P20' η = 43.6	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'0.000 m' Conforme	'2.062 m' Conforme	CONFORME η = 82.5
B0 - P12	Conforme	Conforme	'0.957 m' η = 24.1	'0.957 m' η = 18.9	'B0' η = 70.6	'P12' η = 40.3	N.V.(2)	N.V.(2)	N.V.(3)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	N.V.(2)	'1.190 m' Conforme	'0.000 m' Conforme	CONFORME η = 70.6
P12 - P48	Conforme	Conforme	'0.000 m' η = 47.3	'0.000 m' η = 33.6	'P48' η = 74.6	'P48' η = 52.8	'0.038 m' η = 9.7	'0.038 m' η = 7.4	'0.038 m' η = 60.2	N.V.(1)	'0.000 m' η = 36.0	N.V.(1)	'0.000 m' Conforme	Conforme	Conforme	Conforme	Conforme	CONFORME η = 74.6



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

Date: 25/08/25

CONTRÔLES DE RÉSISTANCE (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)																État		
Poutres	Disp.	Arm.	Q	Q S.	N,M	N,M S.	T _c	T _{st}	TNM _x	TV _x	TV _y	TV _{xSt}	TV _{ySt}	T,Disp _{-st}	T,Disp _{-st}		Disp. S.	Cap. S
	<p>Notation:</p> <p>Disp. : Dispositions relatives aux armatures</p> <p>Arm. : Armatures minimales et maximales</p> <p>Q : État limite d'épuisement face au cisaillement (combinaisons non sismiques)</p> <p>Q S. : État limite d'épuisement face à l'effort tranchant (combinaisons sismiques)</p> <p>N,M : État limite d'épuisement face aux sollicitations normales (combinaisons non sismiques)</p> <p>N,M S. : État limite d'épuisement face aux sollicitations normales (combinaisons sismiques)</p> <p>T_c : État limite d'épuisement par torsion. Compression oblique.</p> <p>T_{st} : État limite d'épuisement par torsion. Traction dans l'âme.</p> <p>TNM_x : État limite d'épuisement par torsion. Interaction entre torsion et efforts normaux. Flexion autour de l'axe X.</p> <p>TV_x : État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe X. Compression oblique</p> <p>TV_y : État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe Y. Compression oblique</p> <p>TV_{xSt} : État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe X. Traction dans l'âme.</p> <p>TV_{ySt} : État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe Y. Traction dans l'âme.</p> <p>T,Disp_{-st} : État limite d'épuisement par torsion. Espacement entre les barres de l'armature longitudinale.</p> <p>T,Disp_{-st} : État limite d'épuisement par torsion. Espacement entre les barres de l'armature transversale.</p> <p>Disp. S. : Critères de conception par séisme</p> <p>Cap. S. : Effets de l'action de calcul. Poutres (5.4.2.2)</p> <p>x : Distance à l'origine de la barre</p> <p>η : Taux de travail (%)</p> <p>N.V. : Sans objet</p> <p>Vérifications non réalisées (N.V.):</p> <p>(1) Il n'y a interaction entre torsion et effort tranchant pour aucune combinaison. La vérification n'est donc pas réalisée.</p> <p>(2) La vérification de l'état limite d'épuisement par torsion n'a pas lieu car il n'y a pas de moment torseur.</p> <p>(3) La vérification n'a pas lieu car il n'y a pas d'interaction entre torsion et efforts normaux.</p>																	

Poutres	VÉRIFICATIONS DE FISSURATION (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)						État
	W _{k,F,Sup.}	W _{k,F,Lat.Drt.}	W _{k,F,inf.}	W _{k,F,Lat.Gch.}	σ _{sr}	V _{ris}	
P22 - P13	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P13 - P14	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P14 - P15	x: 3.05 m Conforme	x: 3.05 m Conforme	N.V. ⁽¹⁾	x: 3.05 m Conforme	x: 3.05 m Conforme	Conforme	CONFORME
P15 - P16	x: 3.05 m Conforme	x: 3.05 m Conforme	x: 1.495 m Conforme	x: 3.05 m Conforme	x: 3.05 m Conforme	Conforme	CONFORME
P16 - P17	x: 0 m Conforme	x: 0 m Conforme	N.V. ⁽²⁾	x: 0 m Conforme	x: 3.05 m Conforme	Conforme	CONFORME
P17 - P18	x: 0 m Conforme	x: 0 m Conforme	x: 1.545 m Conforme	x: 0 m Conforme	x: 0 m Conforme	Conforme	CONFORME
P18 - P19	x: 3.05 m Conforme	x: 3.05 m Conforme	N.V. ⁽¹⁾	x: 3.05 m Conforme	x: 2.423 m Conforme	Conforme	CONFORME
P19 - P20	x: 4.64 m Conforme	x: 4.64 m Conforme	x: 2.734 m Conforme	x: 4.64 m Conforme	x: 0 m Conforme	Conforme	CONFORME
P20 - P23	x: 0 m Conforme	x: 0 m Conforme	N.V. ⁽²⁾	x: 0 m Conforme	x: 0 m Conforme	Conforme	CONFORME
P42 - P43	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P3 - P4	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P21 - P3	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P14 - P6	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P6 - P39	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P25 - P15	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	Conforme	CONFORME
P15 - P7	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P7 - P38	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P16 - P8	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P8 - P37	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P27 - P17	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	Conforme	CONFORME
P17 - P9	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P9 - P36	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P18 - P10	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P10 - P35	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P29 - P19	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	Conforme	CONFORME
P19 - P11	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P11 - P34	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P41 - P44	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P30 - P20	x: 1.59 m Conforme	x: 1.59 m Conforme	N.V. ⁽³⁾	x: 1.59 m Conforme	x: 1.59 m Conforme	Conforme	CONFORME



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Poutres	VÉRIFICATIONS DE FISSURATION (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)						État
	$W_{k,F, \text{sup.}}$	$W_{k,F, \text{Lat. Drt.}}$	$W_{k,F, \text{inf.}}$	$W_{k,F, \text{Lat. Gch.}}$	σ_{sr}	V_{fis}	
P20 - B0	N.V. ⁽¹⁾	x: 2.62 m Conforme	x: 2.62 m Conforme	x: 2.62 m Conforme	x: 1.485 m Conforme	Conforme	CONFORME
B0 - P12	N.V. ⁽²⁾	x: 0 m Conforme	x: 0 m Conforme	x: 0 m Conforme	x: 0.44 m Conforme	Conforme	CONFORME
P12 - P48	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
<p>Notation:</p> <p>$W_{k,F, \text{sup.}}$: Calcul de la largeur de fissure: Face supérieure</p> <p>$W_{k,F, \text{Lat. Drt.}}$: Calcul de la largeur de fissure: Face latérale droite</p> <p>$W_{k,F, \text{inf.}}$: Calcul de la largeur de fissure: Face inférieure</p> <p>$W_{k,F, \text{Lat. Gch.}}$: Calcul de la largeur de fissure: Face latérale gauche</p> <p>σ_{sr}: Aire minimale d'armature</p> <p>V_{fis}: Fissuration due à des contraintes tangentielles de cisaillement</p> <p>x: Distance à l'origine de la barre</p> <p>η: Taux de travail (%)</p> <p>N.V.: Sans objet</p>							
<p>Vérifications non réalisées (N.V.):</p> <p>(1) La vérification n'est pas effectuée car la contrainte de traction maximale dans le béton ne dépasse pas la résistance à la traction de celui-ci.</p> <p>(2) La vérification n'est pas effectuée car il n'y a aucune armature en traction.</p> <p>(3) Il n'y a aucun effort qui produit des contraintes normales pour aucune combinaison. La vérification n'a donc pas lieu.</p>							

Vérifications de flèche			
Poutres	À long terme (Quasi permanente)	Active (Quasi permanente)	État
	$f_{T, \text{max}} \leq f_{T, \text{lim}}$ $f_{T, \text{lim}} = L/250$	$f_{A, \text{max}} \leq f_{A, \text{lim}}$ $f_{A, \text{lim}} = L/500$	
P22 - P13	$f_{T, \text{max}}$: 0.01 mm $f_{T, \text{lim}}$: 0.60 mm	$f_{A, \text{max}}$: 0.01 mm $f_{A, \text{lim}}$: 0.15 mm	CONFORME
P13 - P14	$f_{T, \text{max}}$: 0.37 mm $f_{T, \text{lim}}$: 10.90 mm	$f_{A, \text{max}}$: 0.24 mm $f_{A, \text{lim}}$: 5.45 mm	CONFORME
P14 - P15	$f_{T, \text{max}}$: 0.20 mm $f_{T, \text{lim}}$: 12.20 mm	$f_{A, \text{max}}$: 0.13 mm $f_{A, \text{lim}}$: 6.10 mm	CONFORME
P15 - P16	$f_{T, \text{max}}$: 1.91 mm $f_{T, \text{lim}}$: 12.20 mm	$f_{A, \text{max}}$: 1.64 mm $f_{A, \text{lim}}$: 6.10 mm	CONFORME
P16 - P17	$f_{T, \text{max}}$: 0.11 mm $f_{T, \text{lim}}$: 6.09 mm	$f_{A, \text{max}}$: 0.08 mm $f_{A, \text{lim}}$: 3.05 mm	CONFORME
P17 - P18	$f_{T, \text{max}}$: 1.65 mm $f_{T, \text{lim}}$: 12.20 mm	$f_{A, \text{max}}$: 1.39 mm $f_{A, \text{lim}}$: 6.10 mm	CONFORME
P18 - P19	$f_{T, \text{max}}$: 0.57 mm $f_{T, \text{lim}}$: 12.20 mm	$f_{A, \text{max}}$: 0.38 mm $f_{A, \text{lim}}$: 6.10 mm	CONFORME
P19 - P20	$f_{T, \text{max}}$: 5.17 mm $f_{T, \text{lim}}$: 18.56 mm	$f_{A, \text{max}}$: 4.28 mm $f_{A, \text{lim}}$: 9.28 mm	CONFORME
P20 - P23	$f_{T, \text{max}}$: 1.51 mm $f_{T, \text{lim}}$: 8.84 mm	$f_{A, \text{max}}$: 1.12 mm $f_{A, \text{lim}}$: 4.42 mm	CONFORME
P42 - P43	$f_{T, \text{max}}$: 0.20 mm $f_{T, \text{lim}}$: 10.72 mm	$f_{A, \text{max}}$: 0.12 mm $f_{A, \text{lim}}$: 5.36 mm	CONFORME
P3 - P4	$f_{T, \text{max}}$: 0.61 mm $f_{T, \text{lim}}$: 19.46 mm	$f_{A, \text{max}}$: 0.35 mm $f_{A, \text{lim}}$: 9.84 mm	CONFORME
P21 - P3	$f_{T, \text{max}}$: 0.37 mm $f_{T, \text{lim}}$: 11.87 mm	$f_{A, \text{max}}$: 0.21 mm $f_{A, \text{lim}}$: 7.78 mm	CONFORME
P14 - P6	$f_{T, \text{max}}$: 1.11 mm $f_{T, \text{lim}}$: 17.74 mm	$f_{A, \text{max}}$: 0.81 mm $f_{A, \text{lim}}$: 8.87 mm	CONFORME
P6 - P39	$f_{T, \text{max}}$: 0.00 mm $f_{T, \text{lim}}$: 0.30 mm	$f_{A, \text{max}}$: 0.00 mm $f_{A, \text{lim}}$: 0.15 mm	CONFORME



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Vérifications de flèche			
Poutres	À long terme (Quasi permanente) $f_{T,max} \leq f_{T,lim}$ $f_{T,lim} = L/250$	Active (Quasi permanente) $f_{A,max} \leq f_{A,lim}$ $f_{A,lim} = L/500$	État
P25 - P15	$f_{T,max}$: 0.59 mm $f_{T,lim}$: 12.72 mm	$f_{A,max}$: 0.46 mm $f_{A,lim}$: 6.36 mm	CONFORME
P15 - P7	$f_{T,max}$: 0.87 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 0.60 mm $f_{A,lim}$: 8.87 mm	CONFORME
P7 - P38	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 0.30 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME
P16 - P8	$f_{T,max}$: 1.36 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 1.03 mm $f_{A,lim}$: 8.87 mm	CONFORME
P8 - P37	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 0.30 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME
P27 - P17	$f_{T,max}$: 0.63 mm $f_{T,lim}$: 12.72 mm	$f_{A,max}$: 0.50 mm $f_{A,lim}$: 6.36 mm	CONFORME
P17 - P9	$f_{T,max}$: 0.89 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 0.61 mm $f_{A,lim}$: 8.87 mm	CONFORME
P9 - P36	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 0.30 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME
P18 - P10	$f_{T,max}$: 0.97 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 0.66 mm $f_{A,lim}$: 8.87 mm	CONFORME
P10 - P35	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 0.30 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME
P29 - P19	$f_{T,max}$: 0.65 mm $f_{T,lim}$: 12.72 mm	$f_{A,max}$: 0.51 mm $f_{A,lim}$: 6.36 mm	CONFORME
P19 - P11	$f_{T,max}$: 0.85 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 0.53 mm $f_{A,lim}$: 8.87 mm	CONFORME
P11 - P34	$f_{T,max}$: 0.01 mm $f_{T,lim}$: 0.60 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME
P41 - P44	$f_{T,max}$: 1.09 mm $f_{T,lim}$: 19.44 mm	$f_{A,max}$: 0.64 mm $f_{A,lim}$: 9.72 mm	CONFORME
P30 - P20	$f_{T,max}$: 1.52 mm $f_{T,lim}$: 12.72 mm	$f_{A,max}$: 1.36 mm $f_{A,lim}$: 6.36 mm	CONFORME
P20 - B0	$f_{T,max}$: 3.18 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 2.57 mm $f_{A,lim}$: 8.87 mm	CONFORME
B0 - P12	$f_{T,max}$: 2.82 mm $f_{T,lim}$: 17.74 mm	$f_{A,max}$: 2.28 mm $f_{A,lim}$: 8.87 mm	CONFORME
P12 - P48	$f_{T,max}$: 0.01 mm $f_{T,lim}$: 0.60 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.15 mm	CONFORME

3.2. Plancher 2

Poutres	CONTRÔLES DE RÉSISTANCE (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)															État
	Disp.	Arm.	Q	Q S.	N,M	N,M S.	T _c	T _{st}	TNM _k	TV _k	TV _r	TV _s	TV _s	TV _s	TV _s	
P21 - P2	Conforme	Conforme	'16.123 m' $\eta = 24.4$	'16.123 m' $\eta = 16.1$	'17.748 m' $\eta = 31.3$	'17.748 m' $\eta = 18.0$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 31.3$
B5 - B6	Conforme	Conforme	'2.593 m' $\eta = 40.6$	'2.593 m' $\eta = 24.6$	'B6' $\eta = 69.8$	'B6' $\eta = 37.6$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 69.8$
B7 - B8	Conforme	Conforme	'2.405 m' $\eta = 25.3$	'2.405 m' $\eta = 20.3$	'1.795 m' $\eta = 17.7$	'1.795 m' $\eta = 12.0$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 25.3$
B8 - B9	Conforme	Conforme	'2.205 m' $\eta = 18.1$	'2.205 m' $\eta = 11.1$	'2.815 m' $\eta = 14.2$	'2.815 m' $\eta = 8.1$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 18.1$
B9 - B10	Conforme	Conforme	'0.685 m' $\eta = 37.8$	'0.685 m' $\eta = 25.1$	'0.685 m' $\eta = 12.1$	'1.905 m' $\eta = 7.6$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 37.8$
B10 - B11	Conforme	Conforme	'2.215 m' $\eta = 29.0$	'2.215 m' $\eta = 22.0$	'2.215 m' $\eta = 20.6$	'2.215 m' $\eta = 12.5$	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	CONFORME $\eta = 29.0$



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Poutres	CONTRÔLES DE RÉSISTANCE (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)																	État	
	Disp.	Arm.	Q	Q S.	N,M	N,M S.	T _c	T _{st}	TNM _x	TV _x	TV _y	TV _{5St}	TV _{5St}	T,Disp _{-st}	T,Disp _{-st}	Disp. S.	Cap. S		-
B11 - B12	Conforme	Conforme	'1.305 m' η = 16.4	'2.525 m' η = 12.0	'1.305 m' η = 10.9	'2.525 m' η = 7.0	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'0.000 m' Conforme	N.V. ⁽³⁾	CONFORME η = 16.4
B12 - B13	Conforme	Conforme	'1.005 m' η = 21.0	'1.005 m' η = 15.3	'1.615 m' η = 14.9	'1.615 m' η = 10.5	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'3.250 m' Conforme	'3.250 m' Conforme	N.V. ⁽³⁾	CONFORME η = 21.0
B13 - B14	Conforme	Conforme	'2.435 m' η = 19.6	'2.435 m' η = 15.5	'2.435 m' η = 18.0	'2.435 m' η = 11.2	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'3.340 m' Conforme	N.V. ⁽³⁾	CONFORME η = 19.6
B14 - B15	Conforme	Conforme	'0.315 m' η = 5.7	'0.315 m' η = 3.8	'0.925 m' η = 15.6	'0.925 m' η = 8.5	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.158 m' Conforme	'0.158 m' Conforme	N.V. ⁽³⁾	CONFORME η = 15.6
B15 - B16	Conforme	Conforme	'0.645 m' η = 7.9	'0.645 m' η = 5.0	'B16' η = 31.8	'B16' η = 17.9	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.168 m' Conforme	'0.168 m' Conforme	N.V. ⁽³⁾	CONFORME η = 31.8
P21 - B0	Conforme	Conforme	'1.161 m' η = 2.5	'1.161 m' η = 2.3	'B0' η = 13.0	'B0' η = 8.7	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	'1.161 m' Conforme	N.V. ⁽³⁾	CONFORME η = 13.0
B0 - B7	Conforme	Conforme	'1.444 m' η = 12.2	'2.430 m' η = 13.0	'B0' η = 39.5	'B0' η = 26.4	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'0.168 m' Conforme	N.V. ⁽³⁾	CONFORME η = 39.5
- B18	Conforme	Conforme	'0.000 m' η = 1.6	'1.185 m' η = 0.9	'0.000 m' η = 27.4	'0.000 m' η = 18.8	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'0.000 m' Conforme	N.V. ⁽³⁾	CONFORME η = 27.4
B4 - B5	Conforme	Conforme	'1.048 m' η = 19.1	'1.048 m' η = 19.0	'B4' η = 11.8	'B5' η = 15.6	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'2.552 m' Conforme	N.V. ⁽³⁾	CONFORME η = 19.1

Poutres	CONTRÔLES DE RÉSISTANCE (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)																	État
	Disp.	Arm.	Q	Q S.	N,M	N,M S.	T _c	T _{st}	TNM _x	TV _x	TV _y	TV _{xs}	TV _{ys}	T _{Disp-sl}	T _{Disp-st}	Disp. S.	Cap. S	
B0 - B1	Conforme	Conforme	'B0' η = 5.8	'B0' η = 4.3	'B0' η = 15.5	'B0' η = 10.3	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	Conforme	CONFORME η = 15.5
B1 - B2	Conforme	Conforme	'2.790 m' η = 16.0	'2.790 m' η = 9.9	'2.857 m' η = 42.4	'2.857 m' η = 25.1	'0.000 m' η = 9.9	'0.000 m' η = 6.5	'2.857 m' η = 65.9	N.V. ⁽⁴⁾	'2.790 m' η = 25.6	N.V. ⁽⁴⁾	'2.790 m' Conforme	Conforme	Conforme	'0.000 m' Conforme	'0.000 m' Conforme	CONFORME η = 65.9
B2 - P31	Conforme	Conforme	'4.287 m' η = 49.0	'4.287 m' η = 30.2	'P31' η = 77.5	'P31' η = 42.2	'4.623 m' η = 42.5	'2.815 m' η = 63.5	'1.595 m' η = 75.0	N.V. ⁽¹⁾	'4.645 m' η = 83.6	N.V. ⁽¹⁾	'2.873 m' Conforme	'0.123 m' Conforme	'0.123 m' Conforme	'4.248 m' Conforme	'4.287 m' Conforme	CONFORME
P31 - P32	Conforme	Conforme	'0.458 m' η = 45.4	'0.458 m' η = 27.8	'P31' η = 83.4	'P31' η = 45.5	'3.878 m' η = 42.2	'2.090 m' η = 50.7	'2.090 m' η = 83.8	N.V. ⁽⁴⁾	'3.920 m' η = 70.0	N.V. ⁽¹⁾	'3.378 m' Conforme	'0.628 m' Conforme	'0.628 m' Conforme	'3.582 m' Conforme	'3.582 m' Conforme	CONFORME η = 83.8
P32 - P33	Conforme	Conforme	'1.752 m' η = 31.4	'1.752 m' η = 19.3	'P33' η = 80.6	'P33' η = 44.1	'2.070 m' η = 39.0	'0.838 m' η = 64.2	'0.838 m' η = 74.8	N.V. ⁽¹⁾	'2.088 m' η = 64.6	N.V. ⁽⁴⁾	'1.588 m' Conforme	'0.458 m' Conforme	'0.458 m' Conforme	'0.000 m' Conforme	'1.713 m' Conforme	CONFORME η = 80.6
P33 - B3	Conforme	Conforme	'0.458 m' η = 52.7	'0.458 m' η = 32.6	'P33' η = 78.3	'P33' η = 43.0	'0.128 m' η = 30.2	'2.628 m' η = 73.8	'4.434 m' η = 74.0	N.V. ⁽⁴⁾	'0.128 m' η = 67.6	N.V. ⁽¹⁾	'2.050 m' Conforme	'0.628 m' Conforme	'0.628 m' Conforme	'0.000 m' Conforme	'0.458 m' Conforme	CONFORME
B3 - B4	Conforme	Conforme	'0.000 m' η = 35.0	'0.000 m' η = 22.8	'3.340 m' η = 51.6	'3.340 m' η = 31.7	'1.010 m' η = 11.1	'1.010 m' η = 18.5	'0.353 m' η = 64.6	N.V. ⁽¹⁾	'1.315 m' η = 17.7	N.V. ⁽¹⁾	'1.315 m' Conforme	'0.353 m' Conforme	'0.353 m' Conforme	'0.000 m' Conforme	'0.000 m' Conforme	CONFORME η = 64.6
B4 - P23	Conforme	Conforme	'0.458 m' η = 24.4	'0.458 m' η = 15.3	'1.083 m' η = 39.9	'B4' η = 26.2	'1.795 m' η = 10.7	'1.795 m' η = 30.0	'1.083 m' η = 46.1	N.V. ⁽⁴⁾	'2.405 m' η = 17.4	N.V. ⁽⁴⁾	'1.833 m' Conforme	'0.458 m' Conforme	'0.458 m' Conforme	'0.000 m' Conforme	'0.458 m' Conforme	CONFORME
B18 - B13	Conforme	Conforme	'0.100 m' η = 3.4	'0.100 m' η = 4.0	'B13' η = 13.5	'B13' η = 12.2	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	Conforme	CONFORME η = 13.5
P2 - P23	Conforme	Conforme	'1.615 m' η = 53.9	'1.615 m' η = 37.2	'P23' η = 62.3	'P23' η = 37.9	'1.600 m' η = 4.5	'1.600 m' η = 19.4	'1.615 m' η = 52.5	N.V. ⁽¹⁾	'1.615 m' η = 14.7	N.V. ⁽¹⁾	'1.615 m' Conforme	'1.600 m' Conforme	'1.600 m' Conforme	'1.100 m' Erreur ⁽¹⁾	Conforme	CONFORME
P23 - B6	Conforme	Conforme	'0.568 m' η = 36.4	'0.568 m' η = 23.0	'B6' η = 94.7	'B6' η = 57.5	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'0.000 m' Conforme	'0.568 m' Conforme	CONFORME η = 94.7
B6 - B16	Conforme	Conforme	'1.372 m' η = 18.8	'1.372 m' η = 11.9	'B6' η = 92.4	'B6' η = 50.8	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽²⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	'1.372 m' Conforme	'0.568 m' Conforme	CONFORME η = 92.4

Notation:

Disp.: Dispositions relatives aux armatures

Arm.: Armatures minimales et maximales

Q: État limite d'épuisement face au cisaillement (combinaisons non sismiques)

Q S.: État limite d'épuisement face à l'effort tranchant (combinaisons sismiques)

N,M: État limite d'épuisement face aux sollicitations normales (combinaisons non sismiques)

N,M S.: État limite d'épuisement face aux sollicitations normales (combinaisons sismiques)

T_c: État limite d'épuisement par torsion. Compression oblique.

T_{st}: État limite d'épuisement par torsion. Traction dans l'âme.

TNM_x: État limite d'épuisement par torsion. Interaction entre torsion et efforts normaux. Flexion autour de l'axe X.

TV_x: État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe X. Compression oblique

TV_y: État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe Y. Compression oblique

TV_{xs}: État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe X. Traction dans l'âme.

TV_{ys}: État limite d'épuisement par torsion. Interaction entre torsion et effort tranchant sur l'axe Y. Traction dans l'âme.

T_{Disp.sl}: État limite d'épuisement par torsion. Espacement entre les barres de l'armature longitudinale.

T_{Disp.st}: État limite d'épuisement par torsion. Espacement entre les barres de l'armature transversale.

Disp. S.: Critères de conception par séisme

Cap. S: Effets de l'action de calcul. Poutres (5.4.2.2)

-: -

x: Distance à l'origine de la barre

η: Taux de travail (%)

N.V.: Sans objet

Vérifications non réalisées (N.V.):

(1) La vérification de l'état limite d'épuisement par torsion n'a pas lieu car il n'y a pas de moment torseur.

(2) La vérification n'a pas lieu car il n'y a pas d'interaction entre torsion et efforts normaux.

(3) Il n'y a aucun effort qui produit des contraintes normales pour aucune combinaison. La vérification n'a donc pas lieu.

(4) Il n'y a interaction entre torsion et effort tranchant pour aucune combinaison. La vérification n'est donc pas réalisée.

Erreurs:

(1) Non conforme: 'Critère de conception par séisme'

Poutres	VÉRIFICATIONS DE FISSURATION (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)						État
	W _{k,F,sup.}	W _{k,F,lat.Drt.}	W _{k,F,inf.}	W _{k,F,lat.Gch.}	σ _{sr}	V _{vis}	



Vérifications E.L.U.

C.H. Louis PASTEUR Dole Extension et restructuration de la dialyse

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Poutres	VÉRIFICATIONS DE FISSURATION (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)						État
	$W_{k,F, \text{sup.}}$	$W_{k,F, \text{Lat. Drt.}}$	$W_{k,F, \text{inf.}}$	$W_{k,F, \text{Lat. Gch.}}$	σ_{sr}	V_{fis}	
P21 - P2	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B0 - B1	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B1 - B2	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B2 - P31	x: 4.745 m Conforme	x: 4.745 m Conforme	x: 2.205 m Conforme	x: 4.745 m Conforme	x: 1.054 m Conforme	Conforme	CONFORME
P31 - P32	x: 0 m Conforme	x: 0 m Conforme	x: 2.128 m Conforme	x: 0 m Conforme	x: 1.984 m Conforme	Conforme	CONFORME
P32 - P33	x: 2.21 m Conforme	x: 2.21 m Conforme	N.V. ⁽²⁾	x: 2.21 m Conforme	x: 0.088 m Conforme	Conforme	CONFORME
P33 - B3	x: 0 m Conforme	x: 0 m Conforme	x: 2.66 m Conforme	x: 0 m Conforme	x: 1.378 m Conforme	Conforme	CONFORME
B3 - B4	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B4 - P23	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B18 - B13	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
P2 - P23	x: 1.615 m Conforme	x: 1.615 m Conforme	N.V. ⁽¹⁾	x: 1.615 m Conforme	x: 1.615 m Conforme	Conforme	CONFORME
P23 - B6	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME
B6 - B16	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	CONFORME

Poutres	VÉRIFICATIONS DE FISSURATION (EUROCODE 2 NF EN 1992-1-1:2005/NA:2007)							État
	$W_{k,F, \text{sup.}}$	$W_{k,F, \text{Lat. Drt.}}$	$W_{k,F, \text{inf.}}$	$W_{k,F, \text{Lat. Gch.}}$	σ_{sr}	V_{fis}	-	
B5 - B6	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B7 - B8	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B8 - B9	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B9 - B10	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B10 - B11	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B11 - B12	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B12 - B13	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	N.V. ⁽³⁾	Conforme	N.V. ⁽³⁾	CONFORME
B13 - B14	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B14 - B15	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B15 - B16	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
P21 - B0	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B0 - B7	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
- B18	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME
B4 - B5	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	N.V. ⁽¹⁾	Conforme	N.V. ⁽³⁾	CONFORME

Notation:

$W_{k,F, \text{sup.}}$: Calcul de la largeur de fissure: Face supérieure
 $W_{k,F, \text{Lat. Drt.}}$: Calcul de la largeur de fissure: Face latérale droite
 $W_{k,F, \text{inf.}}$: Calcul de la largeur de fissure: Face inférieure
 $W_{k,F, \text{Lat. Gch.}}$: Calcul de la largeur de fissure: Face latérale gauche
 σ_{sr} : Aire minimale d'armature
 V_{fis} : Fissuration due à des contraintes tangentielles de cisaillement
 x : Distance à l'origine de la barre
 η : Taux de travail (%)
 $N.V.$: Sans objet
 $-$: -

Vérifications non réalisées (N.V.):

- ⁽¹⁾ La vérification n'est pas effectuée car la contrainte de traction maximale dans le béton ne dépasse pas la résistance à la traction de celui-ci.
⁽²⁾ La vérification n'est pas effectuée car il n'y a aucune armature en traction.
⁽³⁾ Il n'y a aucun effort qui produit des contraintes normales pour aucune combinaison. La vérification n'a donc pas lieu.



Vérifications E.L.U.

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Date: 25/08/25

Vérifications de flèche			
Poutres	À long terme (Quasi permanente) $f_{T,max} \leq f_{T,lim}$ $f_{T,lim} = L/250$	Active (Quasi permanente) $f_{A,max} \leq f_{A,lim}$ $f_{A,lim} = L/500$	État
P21 - P2	$f_{T,max}$: 7.25 mm $f_{T,lim}$: 104.88 mm	$f_{A,max}$: 3.37 mm $f_{A,lim}$: 52.44 mm	CONFORME
B0 - B1	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 0.90 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 0.45 mm	CONFORME
B1 - B2	$f_{T,max}$: 0.31 mm $f_{T,lim}$: 12.10 mm	$f_{A,max}$: 0.20 mm $f_{A,lim}$: 6.05 mm	CONFORME
B2 - P31	$f_{T,max}$: 5.70 mm $f_{T,lim}$: 18.98 mm	$f_{A,max}$: 4.79 mm $f_{A,lim}$: 9.49 mm	CONFORME
P31 - P32	$f_{T,max}$: 1.07 mm $f_{T,lim}$: 14.72 mm	$f_{A,max}$: 0.77 mm $f_{A,lim}$: 7.38 mm	CONFORME
P32 - P33	$f_{T,max}$: 0.60 mm $f_{T,lim}$: 8.84 mm	$f_{A,max}$: 0.43 mm $f_{A,lim}$: 4.42 mm	CONFORME
P33 - B3	$f_{T,max}$: 16.04 mm $f_{T,lim}$: 44.80 mm	$f_{A,max}$: 12.19 mm $f_{A,lim}$: 22.40 mm	CONFORME
B3 - B4	$f_{T,max}$: 9.79 mm $f_{T,lim}$: 44.80 mm	$f_{A,max}$: 7.32 mm $f_{A,lim}$: 22.40 mm	CONFORME
B4 - P23	$f_{T,max}$: 6.68 mm $f_{T,lim}$: 44.80 mm	$f_{A,max}$: 4.85 mm $f_{A,lim}$: 22.40 mm	CONFORME
B5 - B6	$f_{T,max}$: 0.21 mm $f_{T,lim}$: 10.72 mm	$f_{A,max}$: 0.13 mm $f_{A,lim}$: 5.36 mm	CONFORME
B7 - B8	$f_{T,max}$: 0.15 mm $f_{T,lim}$: 14.17 mm	$f_{A,max}$: 0.11 mm $f_{A,lim}$: 7.25 mm	CONFORME
B8 - B9	$f_{T,max}$: 0.01 mm $f_{T,lim}$: 0.90 mm	$f_{A,max}$: 0.03 mm $f_{A,lim}$: 2.44 mm	CONFORME
B9 - B10	$f_{T,max}$: 0.18 mm $f_{T,lim}$: 24.01 mm	$f_{A,max}$: 0.12 mm $f_{A,lim}$: 12.29 mm	CONFORME
B10 - B11	$f_{T,max}$: 0.11 mm $f_{T,lim}$: 24.01 mm	$f_{A,max}$: 0.08 mm $f_{A,lim}$: 12.29 mm	CONFORME
B11 - B12	$f_{T,max}$: 0.17 mm $f_{T,lim}$: 31.39 mm	$f_{A,max}$: 0.09 mm $f_{A,lim}$: 15.21 mm	CONFORME
B12 - B13	$f_{T,max}$: 0.15 mm $f_{T,lim}$: 31.39 mm	$f_{A,max}$: 0.07 mm $f_{A,lim}$: 15.21 mm	CONFORME
B13 - B14	$f_{T,max}$: 0.17 mm $f_{T,lim}$: 10.54 mm	$f_{A,max}$: 0.12 mm $f_{A,lim}$: 5.59 mm	CONFORME
B14 - B15	$f_{T,max}$: 0.19 mm $f_{T,lim}$: 12.54 mm	$f_{A,max}$: 0.11 mm $f_{A,lim}$: 5.90 mm	CONFORME
B15 - B16	$f_{T,max}$: 0.19 mm $f_{T,lim}$: 12.54 mm	$f_{A,max}$: 0.11 mm $f_{A,lim}$: 5.90 mm	CONFORME
P21 - B0	$f_{T,max}$: 0.00 mm $f_{T,lim}$: 6.56 mm	$f_{A,max}$: 0.00 mm $f_{A,lim}$: 3.28 mm	CONFORME
B0 - B7	$f_{T,max}$: 0.04 mm $f_{T,lim}$: 4.49 mm	$f_{A,max}$: 0.04 mm $f_{A,lim}$: 2.51 mm	CONFORME
- B18	$f_{T,max}$: 0.04 mm $f_{T,lim}$: 7.63 mm	$f_{A,max}$: 0.02 mm $f_{A,lim}$: 3.36 mm	CONFORME
B18 - B13	$f_{T,max}$: 0.02 mm $f_{T,lim}$: 7.63 mm	$f_{A,max}$: 0.01 mm $f_{A,lim}$: 5.14 mm	CONFORME
B4 - B5	$f_{T,max}$: 0.37 mm $f_{T,lim}$: 21.76 mm	$f_{A,max}$: 0.11 mm $f_{A,lim}$: 10.88 mm	CONFORME



Vérifications E.L.U.

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Date: 25/08/25

Vérifications de flèche			
Poutres	À long terme (Quasi permanente) $f_{T,max} \leq f_{T,lim}$ $f_{T,lim} = L/250$	Active (Quasi permanente) $f_{A,max} \leq f_{A,lim}$ $f_{A,lim} = L/500$	État
P2 - P23	$f_{T,max}$: 1.65 mm $f_{T,lim}$: 12.92 mm	$f_{A,max}$: 1.28 mm $f_{A,lim}$: 6.46 mm	CONFORME
P23 - B6	$f_{T,max}$: 1.00 mm $f_{T,lim}$: 19.34 mm	$f_{A,max}$: 0.65 mm $f_{A,lim}$: 9.67 mm	CONFORME
B6 - B16	$f_{T,max}$: 1.00 mm $f_{T,lim}$: 19.34 mm	$f_{A,max}$: 0.65 mm $f_{A,lim}$: 9.67 mm	CONFORME

4. NOEUDS EN BÉTON

4.1. Plancher 1

Noeuds en béton	VÉRIFICATIONS (EUROCÓDIGO 8)			
	Conf.	ω_{wd}	Sép.	Adh.
P14	2 faces	Conforme	Conforme	Conforme
P6	2 faces	Conforme	Conforme	Conforme
P15	4 faces	Conforme	Conforme	Conforme
P7	2 faces	Conforme	Conforme	Conforme
P16	3 faces	Conforme	Conforme	Conforme
P8	2 faces	Conforme	Conforme	Conforme
P17	4 faces	Conforme	Conforme	Conforme
P9	2 faces	Conforme	Conforme	Conforme
P18	3 faces	Conforme	Conforme	Conforme
P10	2 faces	Conforme	Conforme	Conforme
P19	3 faces	Conforme	Conforme	Conforme
P20	4 faces	Conforme	Conforme	Conforme
P12	2 faces	Conforme	Conforme	Conforme

Notation:
Conf.: Confinement des faces du noeud
 ω_{wd} : Dispositions relatives aux armatures. Armature horizontale de confinement. Ratio volumétrique d'armature.
Sép.: Dispositions relatives aux armatures. Armature horizontale de confinement. Séparation de l'armature.
Adh.: Rupture d'adhérence

4.2. Plancher 2

Noeuds en béton	VÉRIFICATIONS (EUROCÓDIGO 8)			
	Conf.	ω_{wd}	Sép.	Adh.
P21	2 faces	Conforme	Conforme	Conforme
P31	2 faces	Conforme	Conforme	Conforme
P32	2 faces	Conforme	Conforme	Conforme
P33	2 faces	Conforme	Conforme	Conforme
P23	3 faces	Conforme	Conforme	Conforme

Notation:
Conf.: Confinement des faces du noeud
 ω_{wd} : Dispositions relatives aux armatures. Armature horizontale de confinement. Ratio volumétrique d'armature.
Sép.: Dispositions relatives aux armatures. Armature horizontale de confinement. Séparation de l'armature.
Adh.: Rupture d'adhérence