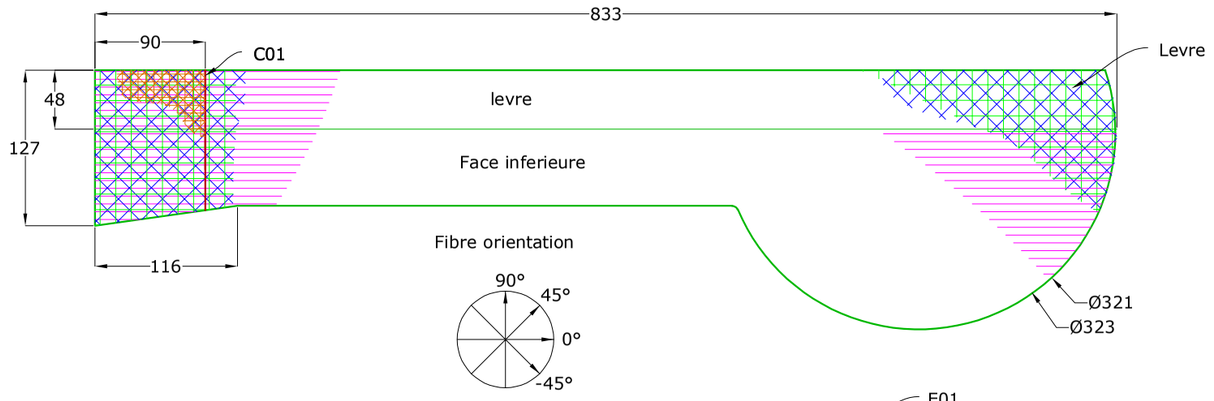
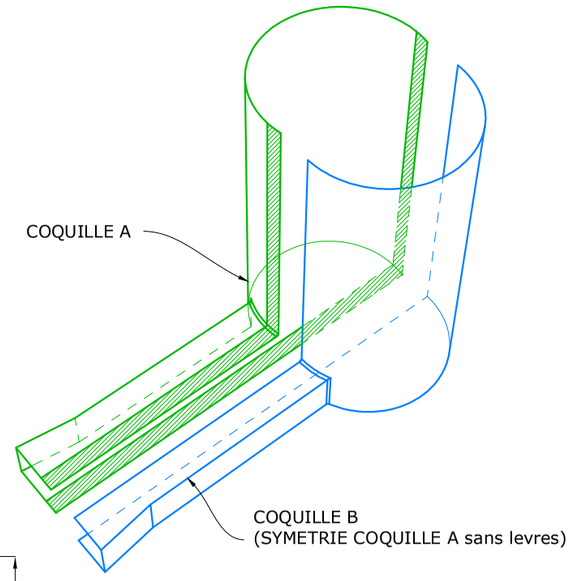
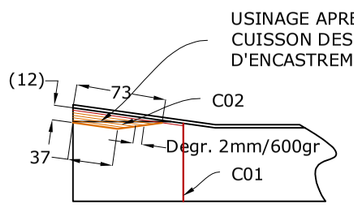
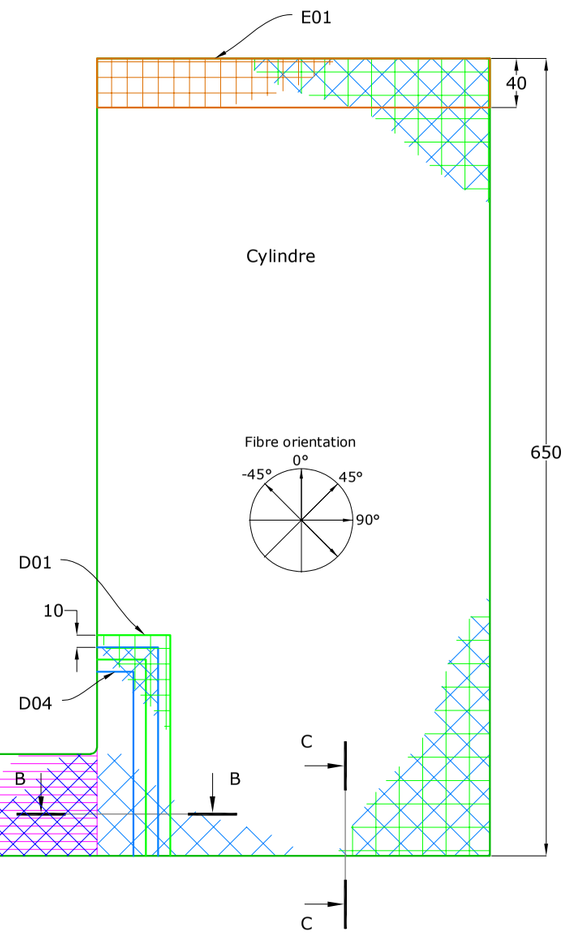
Chassis Peripheriques
Materiau: Prepreg Carbone Autoclavé
Qté: 3
Masse unitaire :4.8 Kg

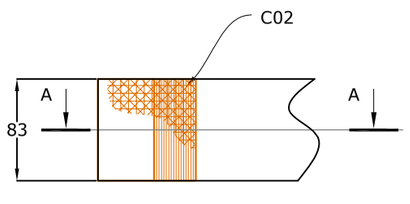


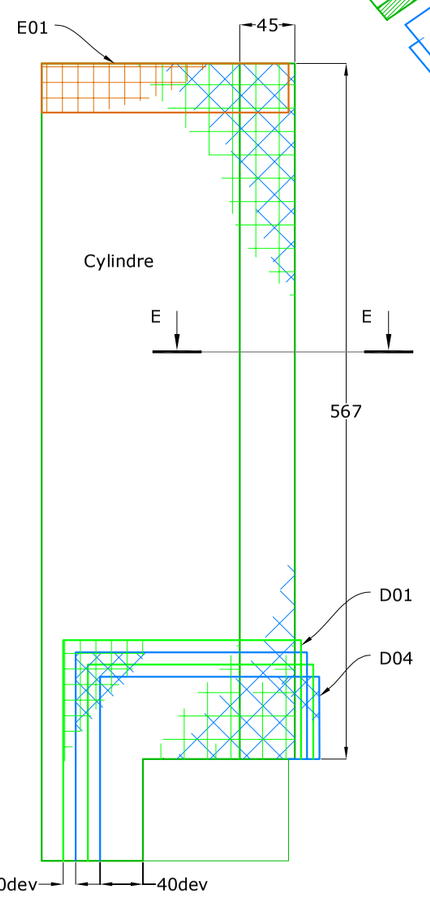


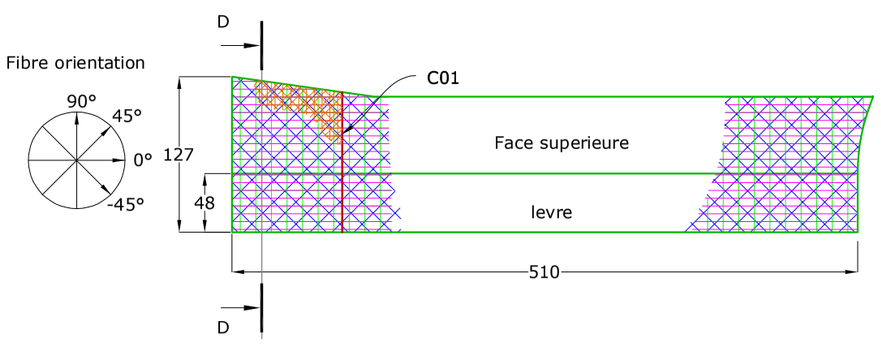


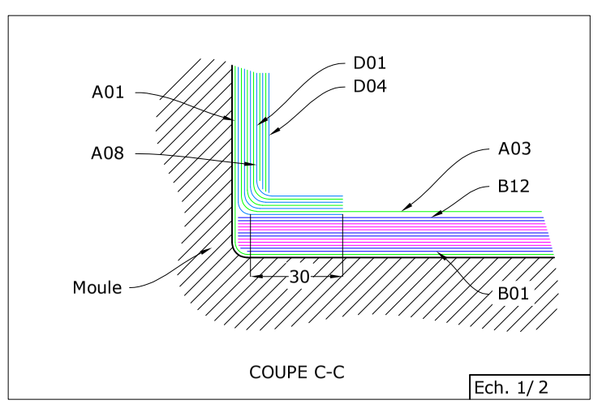
COUPE A-A





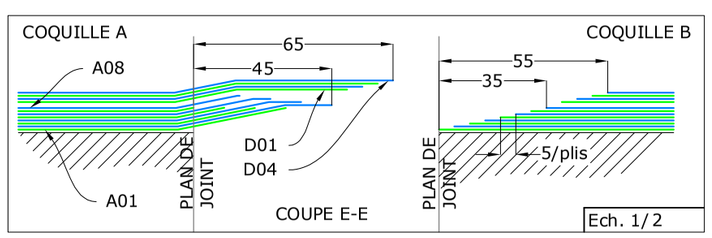






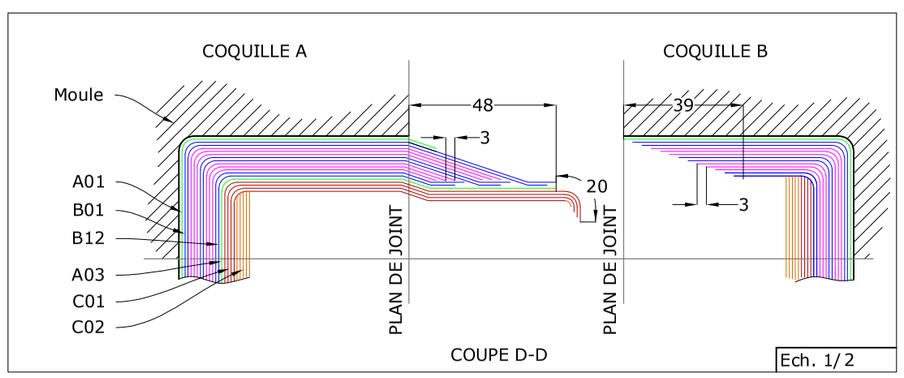
COUPE C-C

Ech. 1/ 2



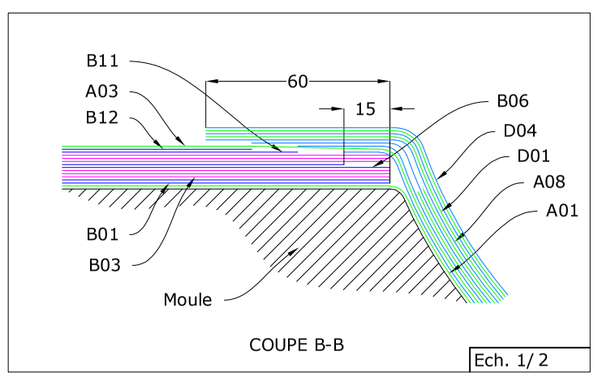
COUPE E-E

Ech. 1/ 2



COUPE D-D

Ech. 1/ 2



COUPE B-B

Ech. 1/ 2

Notes générales :

- Sauf mention contraire, les degressifs et recouvrements minimum doivent être de 15mm/pli de 300g EQC ou BBC, et de 25mm/pli de 300g UDC dans le sens de la fibre.
- n[EQC_HR_300_ 0/90°, EQC_HR_300_+/-45°] signifie n EQC_HR_300_ 0/90° plus n EQC_HR_300_+/-45° alternés.
- QI signifie " laminé quasi isotropique".
- toutes les cotes sont projetées sauf mention " dev", indiquant des cotes en développé
- le contour représenté est le contour extérieur de la pièce finie.
- un seul côté représenté, opposé symétrique sauf spécifié
- les cotes entre () sont à ajuster in-situ
- Sauf mention contraire sur zone monolithique, utiliser un film de colle 150g/m² mini.
- les renforts sont drapés en plus du nominal.
- sauf mention contraire, les renforts sont donnés par face et sont symétriques babord / tribord.
- sauf mention contraire, les renforts doivent êtres répartis également entre les peaux ext/int et intercalés dans les plis du nominal.
- Le dégressif des plis doit se faire au delà de la cote indiquée et dans le cas où plusieurs cotes sont indiquées de façon linéaire entre deux points.

Description	Sequence	orientation fibre	Materiau	Zone	Epaisseur	Surface par coquille	Masse/m²	recouvrement	nbre coquille	Poids Kg pour 2 coquilles
-	-	-	-	_	mm	m²	gsm	%	-	Kg
Chassis Peripheriques - COQUILLE A										
COQUILLE A	A01	0/90°	EQC_HR_300_40%	totale + levres 9mm /30mm	0.33	0.47	0.50	5%	1	0.25
COQUILLE A - BRAS	B01	+45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 48mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A - BRAS	B02	-45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 45mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A - BRAS	B03	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levre 30mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B04	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levres 27mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B05	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levres 24mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B06	+45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 33mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A - BRAS	B07	-45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 30mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A - BRAS	B08	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levres 15mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B09	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levres 12mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B10	0°	UDC_HM_300_38%	Faces sup. inf. et laterale + levres 9mm	0.31	0.15	0.48	0%	1	0.07
COQUILLE A - BRAS	B11	+45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 18mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A - BRAS	B12	-45°	UDC_HM_300_38%	Faces sup. inf lat. + levres 15mm	0.31	0.21	0.48	5%	1	0.03
COQUILLE A	A02	+/-45°	EQC_HR_300_40%	cylindre + levres 45mm	0.33	0.38	0.50	5%	1	0.20
COQUILLE A	A03	0/90°	EQC_HR_300_40%	totale + levres 48mm / 20mm	0.33	0.47	0.50	5%	1	0.25
COQUILLE A	A04	+/-45°	EQC_HR_300_40%	cylindre + levres 35mm	0.33	0.38	0.50	5%	1	0.20
COQUILLE A	A05	0/90°	EQC_HR_300_40%	cylindre + levres 10mm	0.33	0.32	0.50	5%	1	0.17
COQUILLE A	A06	+/-45°	EQC_HR_300_40%	cylindre + levres 25mm	0.33	0.38	0.50	5%	1	0.20
COQUILLE A	A07	0/90°	EQC_HR_300_40%	cylindre	0.33	0.32	0.50	5%	1	0.17
COQUILLE A	A08	+/-45°	EQC_HR_300_40%	cylindre + levres 15mm	0.33	0.38	0.50	5%	1	0.20
COQUILLE A	D01	0/90°	EQC_HR_300_40%	renforts cylindre + levre 50mm	0.33	0.01	0.50	5%	1	0.01
COQUILLE A	D02	+/-45°	EQC_HR_300_40%	renforts cylindre + levre 55mm	0.33	0.01	0.50	5%	1	0.01
COQUILLE A	D03	0/90°	EQC_HR_300_40%	renforts cylindre + levre 60mm	0.33	0.01	0.50	5%	1	0.01
COQUILLE A	D04	+/-45°	EQC_HR_300_40%	renforts cylindre + levre 65mm	0.33	0.01	0.50	5%	1	0.01
COQUILLE B - encastrement	C01	QISO	2x QIV_E_600_40%	Voir plan - peripherique	1.12	0.03	2.00	0%	1	0.06
COQUILLE B - encastrement	C02	QISO	20x QIV_E_600_40%	Voir plan - lateral	10.88	0.00	18.00	0%	1	0.09
COQUILLE A - isolation bouchon	E01	0/90°	4x EQV_E_300_40%	Voir plan	1.12	0.02	2.00	0%	1	0.04
Chassis Peripheriques - COQUILLE B										
COQUILLE B	A01	0/90°	EQC_HR_300_40%	totale	0.33	0.47	0.50	5%	1	0.25
COQUILLE B - BRAS	B01	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -3mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B - BRAS	B02	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -6mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B - BRAS	B03	0°	UDC_HM_300_38%	Faces sup. inf. et laterale -9mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B04	0°	UDC_HM_300_38%	Faces sup. inf. et laterale -12mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B05	0°	UDC_HM_300_38%	Faces sup. inf. et laterale -15mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B06	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -18mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B - BRAS	B07	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -21mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B - BRAS	B08	0°	UDC_HM_300_38%	Faces sup. et inf. -24mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B09	0°	UDC_HM_300_38%	Faces sup. et inf. -27mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B10	0°	UDC_HM_300_38%	Faces sup. et inf. -30mm levres	0.31	0.15	0.48	0%	1	0.07
COQUILLE B - BRAS	B11	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -33mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B - BRAS	B12	+/-45°	UDC_HM_300_38%	Faces sup. inf. et laterale -36mm levres	0.31	0.15	0.48	5%	1	0.03
COQUILLE B	A02	+/-45°	EQC_HR_300_40%	cylindre -5mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	A03	0/90°	EQC_HR_300_40%	totale -39mm / -10mm levres	0.33	0.47	0.50	5%	1	0.25
COQUILLE B	A04	+/-45°	EQC_HR_300_40%	cylindre -15mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	A05	0/90°	EQC_HR_300_40%	cylindre -20mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	A06	+/-45°	EQC_HR_300_40%	cylindre -25mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	A07	0/90°	EQC_HR_300_40%	cylindre -30mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	A08	+/-45°	EQC_HR_300_40%	cylindre -35mm levres	0.33	0.32	0.50	5%	1	0.17
COQUILLE B	D01	0/90°	EQC_HR_300_40%	renforts cylindre	0.33	0.01	0.50	5%	1	0.01
COQUILLE B	D02	+/-45°	EQC_HR_300_40%	renforts cylindre	0.33	0.01	0.50	5%	1	0.01
COQUILLE B	D03	0/90°	EQC_HR_300_40%	renforts cylindre	0.33	0.01	0.50	5%	1	0.01
COQUILLE B	D04	+/-45°	EQC_HR_300_40%	renforts cylindre	0.33	0.01	0.50	5%	1	0.01
COQUILLE B - encastrement	C01	QISO	2x QIV_E_600_40%	Voir plan - peripherique	1.12	0.03	2.00	0%	1	0.06
COQUILLE B - encastrement	C02	QISO	20x QIV_E_600_40%	Voir plan - lateral	10.88	0.00	18.00	0%	1	0.09
COQUILLE B - isolation bouchon	E01	0/90°	4x EQV_E_300_40%	Voir plan	1.12	0.02	2.00	0%	1	0.04

Code	Type	Fibre	Dry areal weight	Cured areal weight	RC
UDC_HM_300	UD	Carbon HM400	300	_	38%
EQC_HR_300	Tissé	Carbon HR240	300	_	40%
EQV_E_300	Tissé	Verre E	300	_	40%

REV	DATE	DESCRIPTION	DWN	CKD
D	18/12/2025	BBC remplacés par nappes UDC à + et - 45deg	JB	
C	15/12/2025	optimisation C01 en C01 peripherique et C02 local	JB	
B	15/12/2025	Ajout 3 plis sacrificiels verre en E01 + detail degressif plis D01 à D04	JB	
A	12/12/2025	Ajout renforts jonction bras + details bouclages + ajout plis verre	JB	- -
P1	10/12/2025	Version Preliminaire	JB	- -

ST2 DESIGN
5, rue Turenne
29200 BREST
FRANCE
steven.robert707@gmail.com

DRAWING NUMBER/TITLE

2509-ECN-CIMSUB-002-Chassis Peripheriques.dwg

STANDARDS & TOLERANCES

1. IF ST2 DESIGN SUPPLIES 3D GEOMETRY FOR MANUFACTURING, THE DIMENSIONS SHOWN ON THE DRAWING ARE FOR REFERENCE ONLY.
THE 3D GEOMETRY WILL TAKE PREFERENCE OVER ALL NON SPECIFIED DIMENSIONS AND GEOMETRIES LIKE RADI ETC...

2. WHEN THE PART IS SYMMETRIC, ALL NOTES AND DIMENSIONS SHOWN ON ONE SIDE MUST BE APPLIED TO THE OTHER SIDE.

3. TOLERANCES FOR LINEAR AND ANGULAR DIMENSIONS WITHOUT INDIVIDUAL TOLERANCE INDICATIONS WILL USE STANDARD SHEET:
ISO 2768-1 - TOLERANCE CLASS M.
GEOMETRICAL TOLERANCES FOR FEATURES WITHOUT INDIVIDUAL TOLERANCE INDICATIONS WILL USE STANDARD SHEET ISO 2768-2 -TOLERANCE CLASS K.
HOLES WILL USE TOLERANCE H11 UNLESS OTHERWISE INDICATED.
SHAFTS WILL USE TOLERANCE h11 UNLESS OTHERWISE INDICATED.
ALL OUT SIDE SHARP EDGES WILL BE CHAMFERED 0.2 X 45°. ALL IN SIDE SHARP EDGES WILL HAVE 0.2 RADIUS.

4. IF WEIGHTS ARE SPECIFIED IN THE DRAWING, ALL WEIGHT DIFFERENCES FOUND BY THE BUILDER WILL BE PRESENTED TO THE DESIGNER.

5. ALL DIMENSIONS ARE IN MILLIMETERS.

SHEET NAME

DEFINITION CHASSIS PERIPHERIQUES

SIZE	SCALE	SHEET
A2	1:5	1/1

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