



CCI ROUEN METROPOLE

4-20 Passage Luciline
Bâtiment l'Opensen
76000 ROUEN

CBA Architectes

9 rue de Le Nostre – CS 70502
76005 ROUEN
Tél : 02 32 10 44 44 - Courriel : agence@cbaarchitectes.fr

PROUIN

Chemin du Gal
76113 SAHURS
Tél : 02 35 32 46 64 - Courriel : sp@prouin-metallerie.fr

CAMPUS IFA MARCEL SAUVAGE

MONT SAINT AIGNAN

Affaire 250036
Note de calculs NDC6

TOUTES ZONES – DETAILS D'ATTACHES

Ind. 16-04-25

Emission originelle

FR. KUENTZ

ESCALIERS FAÇADE OUEST

DÉTAILS ATTACHES

PIED DE POTEAU TUBE 150x150

Pas de soulèvement

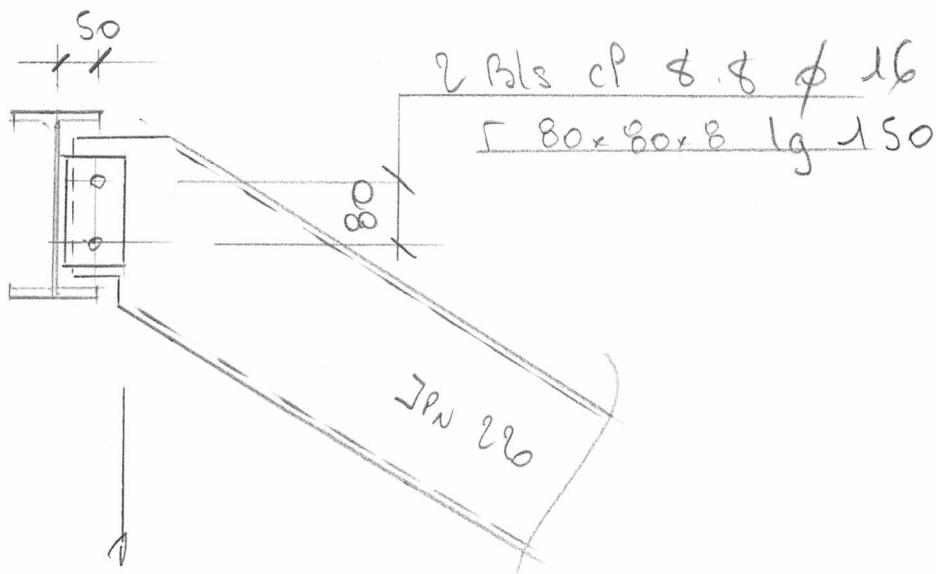
$$\text{Cisaillement (Eu)} = (180 + 800) \times 1,50 = 1170 \text{ dan}$$

$$\text{Cisaillement par cheville} = 1170 / 2 = 735 \text{ dan}$$

2 SPIT fix 3 ϕ 20

PLATINE (200x15)

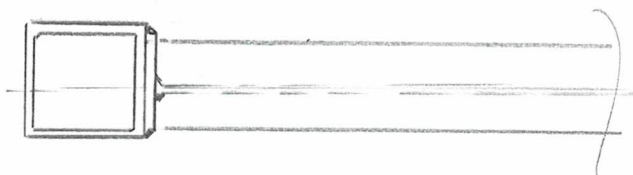
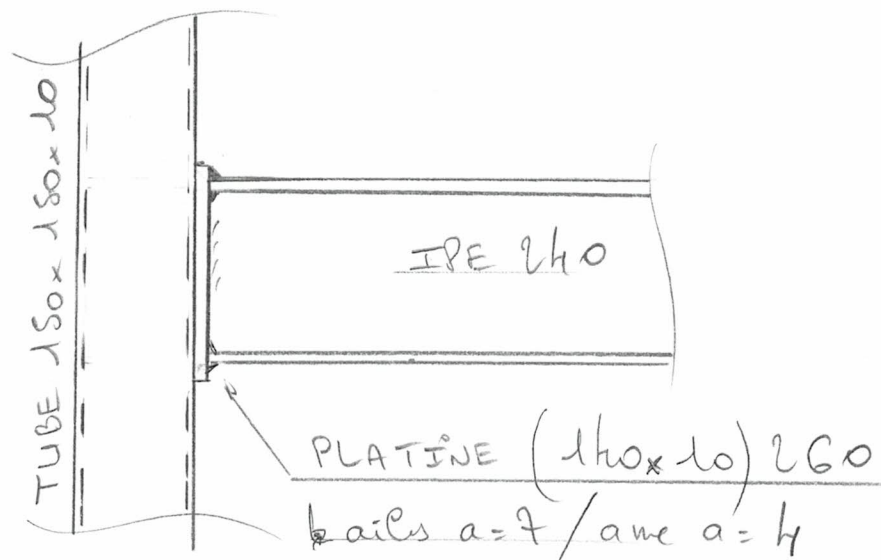
ATTACHE LIRON IPRN 220



$$(252 + 1044) \times 1,50 = 1944 \text{ dan (Eu)}$$

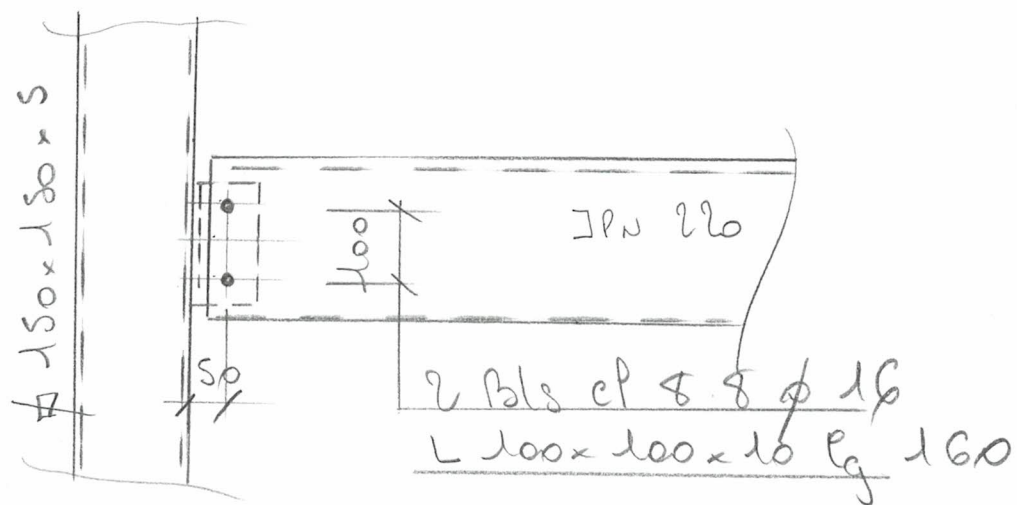
ATTACHES CONSOLES IPE 240 / files ② & ④

② F2



ATTACHE IPN 220 de rives sur poteaux

F3



GARDE-CORPS

(Fy)

— Poussee sur train. courante = 100 daN/mf

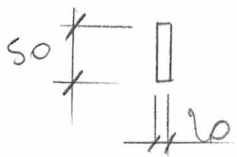
Entrée montante = 1,20 m.

H = 120 daN



$$H = 100 \times 1,20 = 120 \text{ daN}$$

$$\text{Moment (Eu)} = (120 \times 1,00) \times 1,50 = 180 \text{ mdaN}$$



$$I_u = \frac{2 \times 5^3}{6} = 8,33 \text{ cm}^3$$

$$\sigma_g = \frac{180}{8,33} = 21,61 \text{ daN/cm}^2 < 29$$

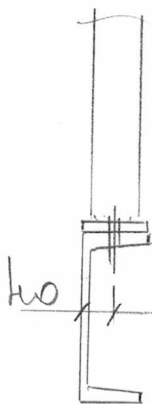
PLAT 50 x 20

Correct

ATTACHE

$$\text{Traction bp} = \frac{180}{2 \times 9,04} = 2250 \text{ daN}$$

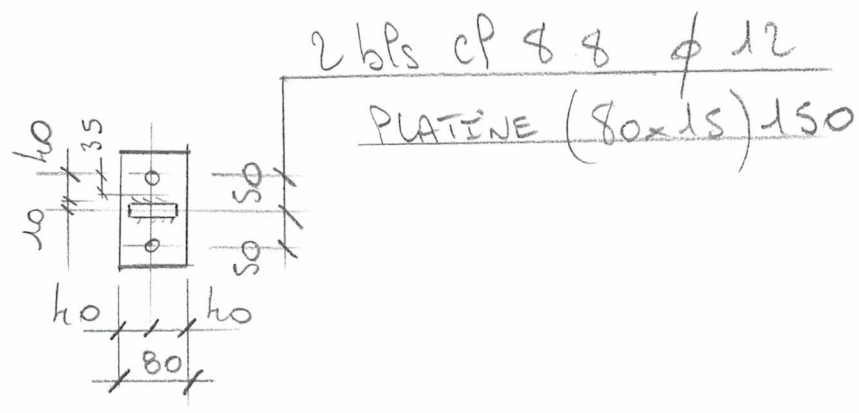
$$\text{bp cp 8 8 } \phi 12 \quad \text{Traction admissible} = 3709 \text{ daN} > 2250$$



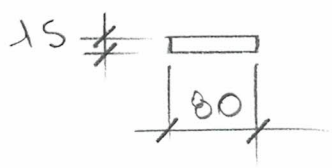
2 bts cp 8.8 $\phi 12$ $E_c = 100$

PLATINE (80 x 15) 150

PLATINE



Moment platine : $2250 \times 0,035 = 79 \text{ ndan}$



$$\frac{I}{u} = \frac{8 \times 1,5^2}{4} = 4,5 \text{ cm}^2$$

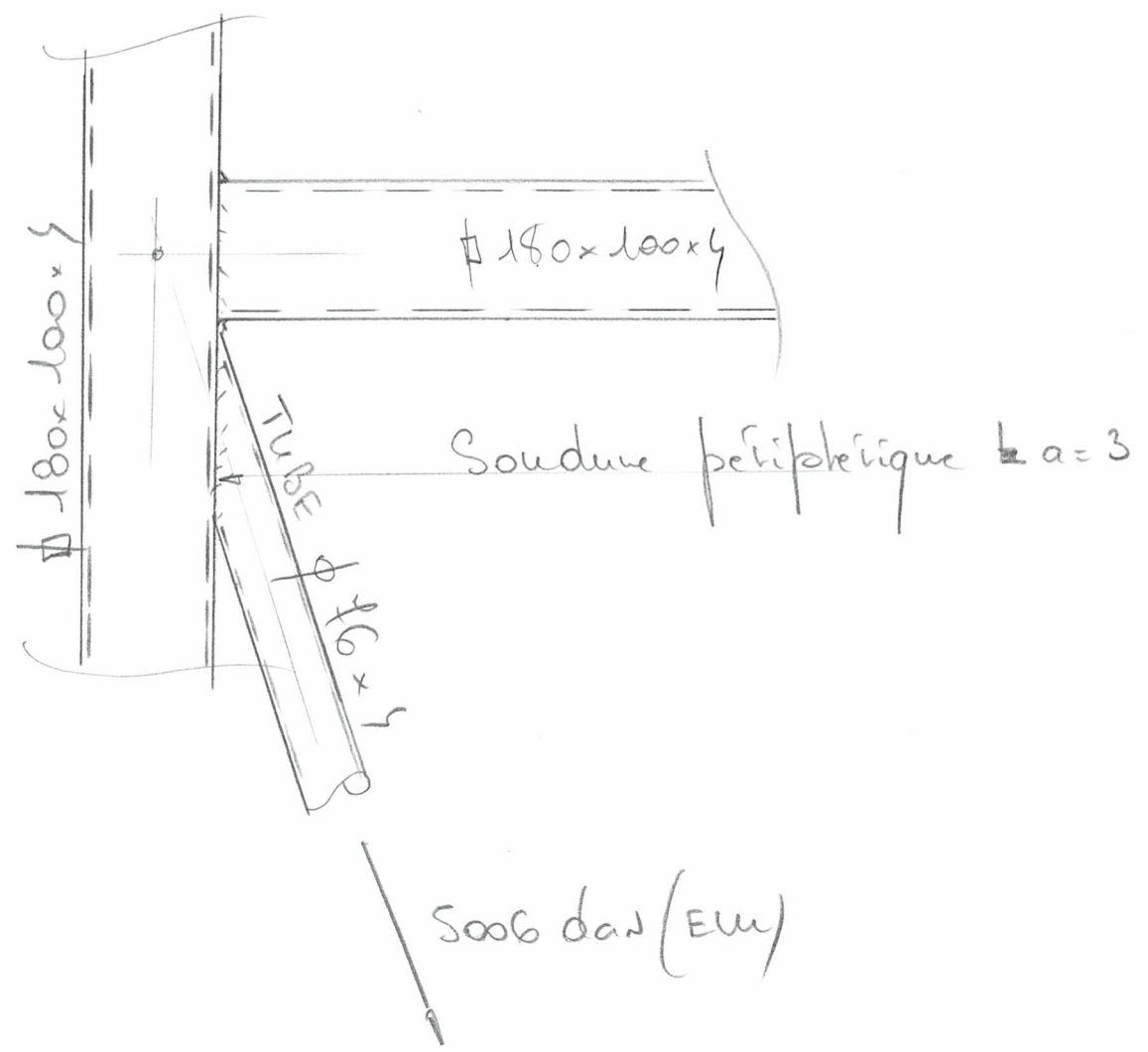
(plastikite)

$$\sigma_g = \frac{79}{4,5} = 17,56 \text{ dan/mm}^2 < 24$$

PLATINE (80x15) 150

Correct

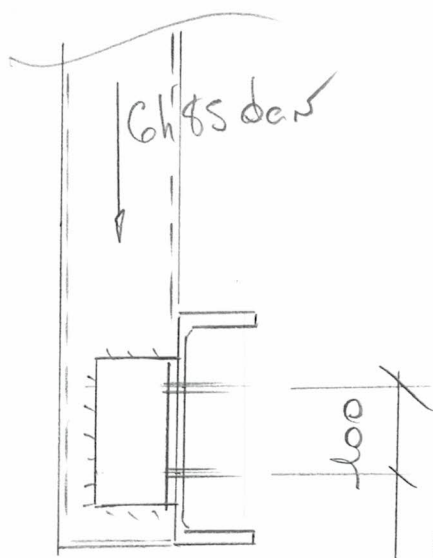
PASSERELLE FAÇADE SUD



ESCALIERS FAÇADE NORD

ATTACHES COURANTES : Site Escaliers façade Ouest

ATTACHE POTEAU (k20) sur JPE 300



$$P = h323 \times 1,50 = Gh85 \text{ dan (Elu)}$$

Cisaillement par boulon =
 $Gh85/4 = 1622 \text{ dan}$

h Bts cl 8 & 8 $\phi 16$
 $\frac{1}{2} 100 \times 100 \times 10 \text{ kg } 160$

ATTACHE CPE 300 sur POTEAU

