HYPOTHESE DE L'ETUDE

Classe de béton :	C25/30 sauf indications contraire
Classe de béton :	XC2
Degrés CF :	2h
Aciers :	B500A (HA)
Enrobage :	bas : 5 cm / haut : 5 cm / latérale : 5 cm
Kilotage :	18 319 Kg

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-12-	Béton=1.54 m3 Acier=142.2 kg d=92.4 kg/m3 Fi=11.1 mm Cof=3.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

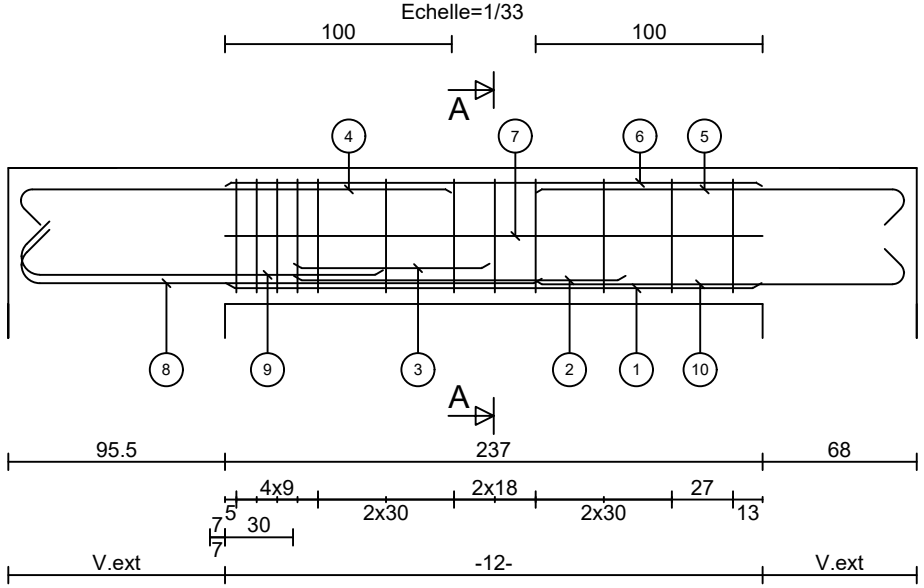
Section : 64 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

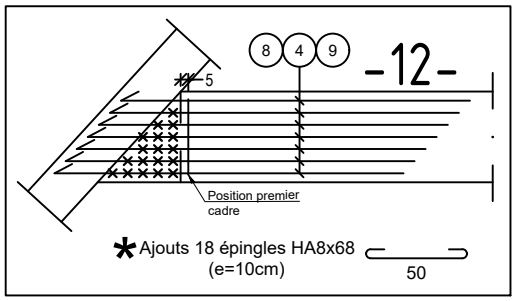
Béton C25/30

Elévation
Echelle=1/33

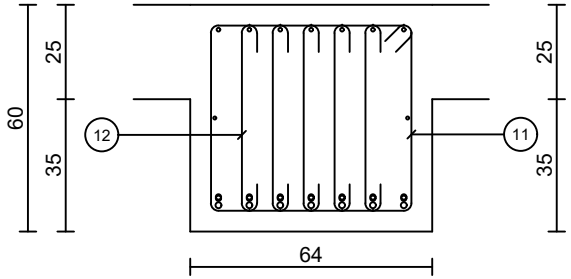


	Barre		Lg	Forme
	1	7HA16	237	237
	2	7HA14	147	147
	3	7HA14	87	87
*	4	7HA10	207	10 15 135° 191
*	5	7HA10	179	135° 16 10 163
	6	7HA8	237	237
	7	2HA8	237	237
*	8	7HA14	254	135° 23 16 231
*	9	7HA14	184	135° 23 16 161
*	10	7HA10	179	10 16 135° 163
	11	12HA8	217	50 54
	12	94HA8	68	50

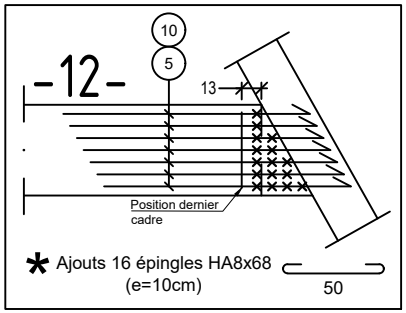
VEP - Aciers sur appui gauche
Echelle=1/50



Coupe A-A
Echelle=1/20



VEP - Aciers sur appui droite
Echelle=1/50



Barre	Lg/Poids
HA8	87.9/34.7
HA10	39.6/24.4
HA14	47.1/56.9
HA16	16.6/26.2

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-13-	Béton=0.72 m3 Acier=170.3 kg d=236.6 kg/m3 Fi=12.3 mm Cof=2.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

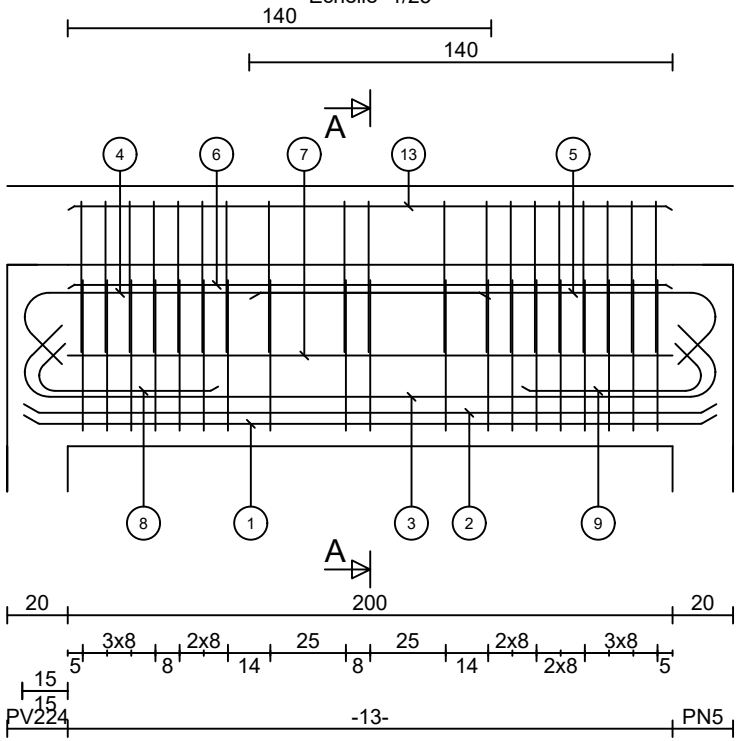
Section : 50 x 60ht

fck= 35 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

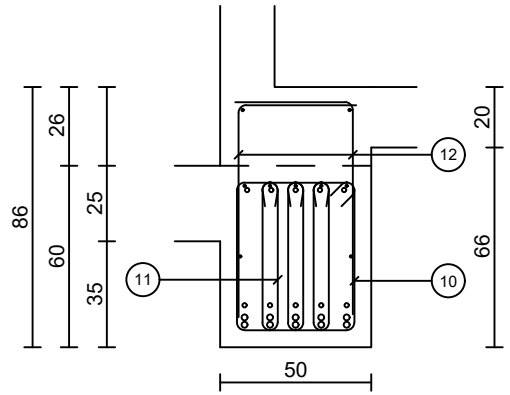
* Aciers non soudés

Béton
C35/45

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
1	5HA20		230	230
2	5HA20		230	230
3	5HA14		278	23 16 16 23 135° 135° 230
* 4	5HA14		179	16 23 155 135°
* 5	5HA14		179	23 16 135° 155
6	5HA8		200	200
7	2HA8		200	200
8	5HA10		76	15 10 135° 60
9	5HA10		76	10 16 60 135°
10	19HA10		189	50 40
11	57HA10		122	50
* 12	19x 2HA10 (à plier si nécessaire)		110	40 70
* 13	2HA8		200	200

Barre	Lg/Poids
HA8	14.0/5.5
HA10	113.0/69.7
HA14	31.8/38.4
HA20	23.0/56.7

Structuriste

Poutre n011 Niveau n01 BAT 1 - PH SS-1	-14-	Béton=2.27 m3 Acier=260.1 kg d=114.6 kg/m3 Fi=11.3 mm Cof=4.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 60 x 80ht

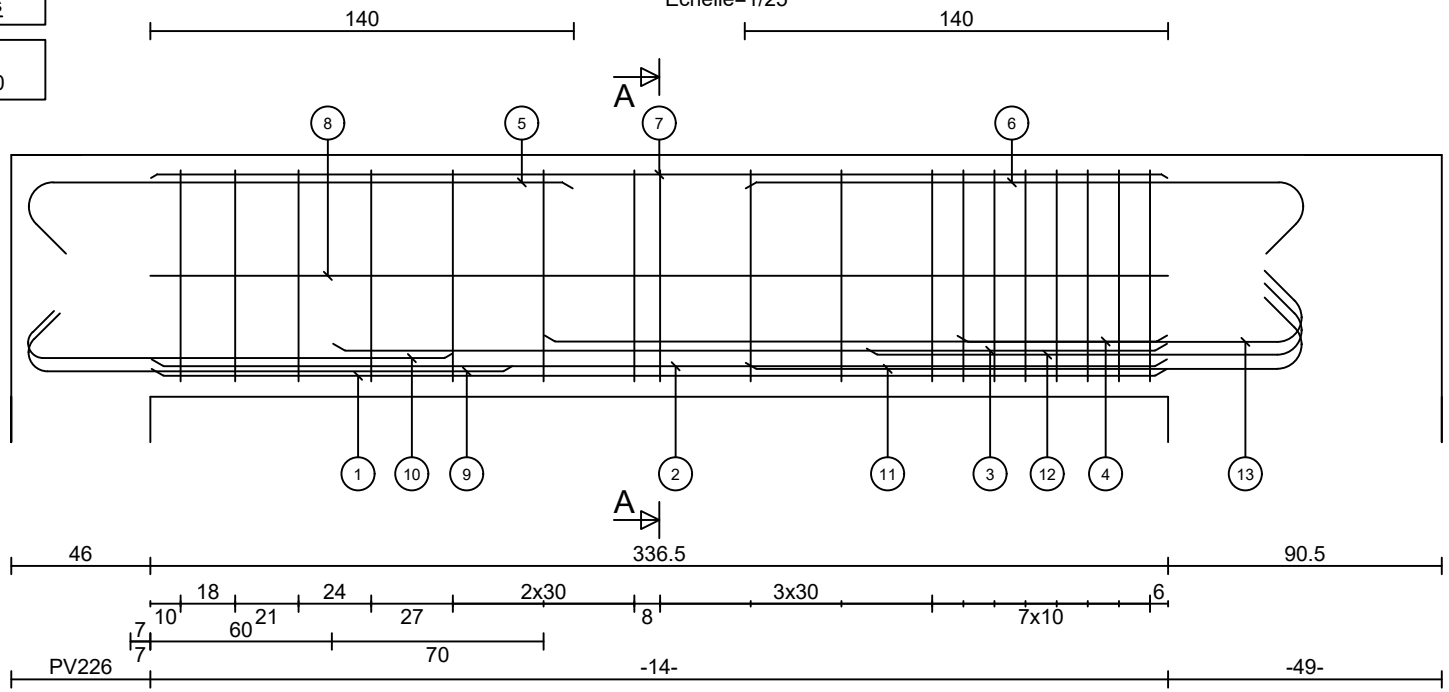
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

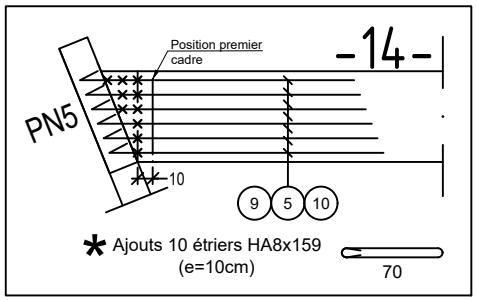
Elévation

Echelle=1/25



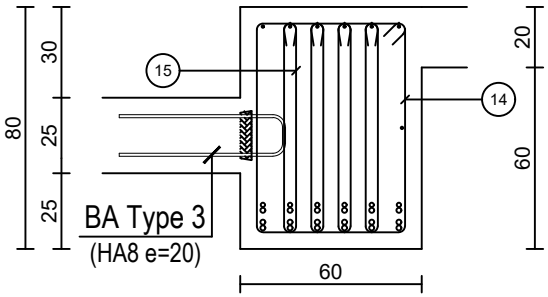
VEP - Aciers sur appui gauche

Echelle=1/50



Coupe A-A

Echelle=1/25



	Barre	Lg	Forme
1	6HA16	337	337
2	6HA16	337	337
3	6HA16	276	276
4	6HA14	207	207
* 5	6HA14	205	23 / 16 / 135° / 181
* 6	6HA14	209	23 / 135° / 16 / 185
7	6HA8	337	337
8	1HA8	337	337
* 9	6HA12	181	19 / 135° / 13 / 161
* 10	6HA10	157	16 / 135° / 10 / 141
* 11	6HA14	209	23 / 16 / 135° / 185
* 12	6HA14	169	23 / 16 / 135° / 145
* 13	6HA14	139	23 / 16 / 135° / 115
14	18HA8	249	70 / 50
15	82HA8	159	70

Barre	Lg/Poids
HA8	183.2/72.4
HA10	9.4/5.8
HA12	10.8/9.6
HA14	68.3/82.5
HA16	57.0/89.9

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-15-	Béton=2.43 m3 Acier=104.9 kg d=43.2 kg/m3 Fi=10.2 mm Cof=5.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

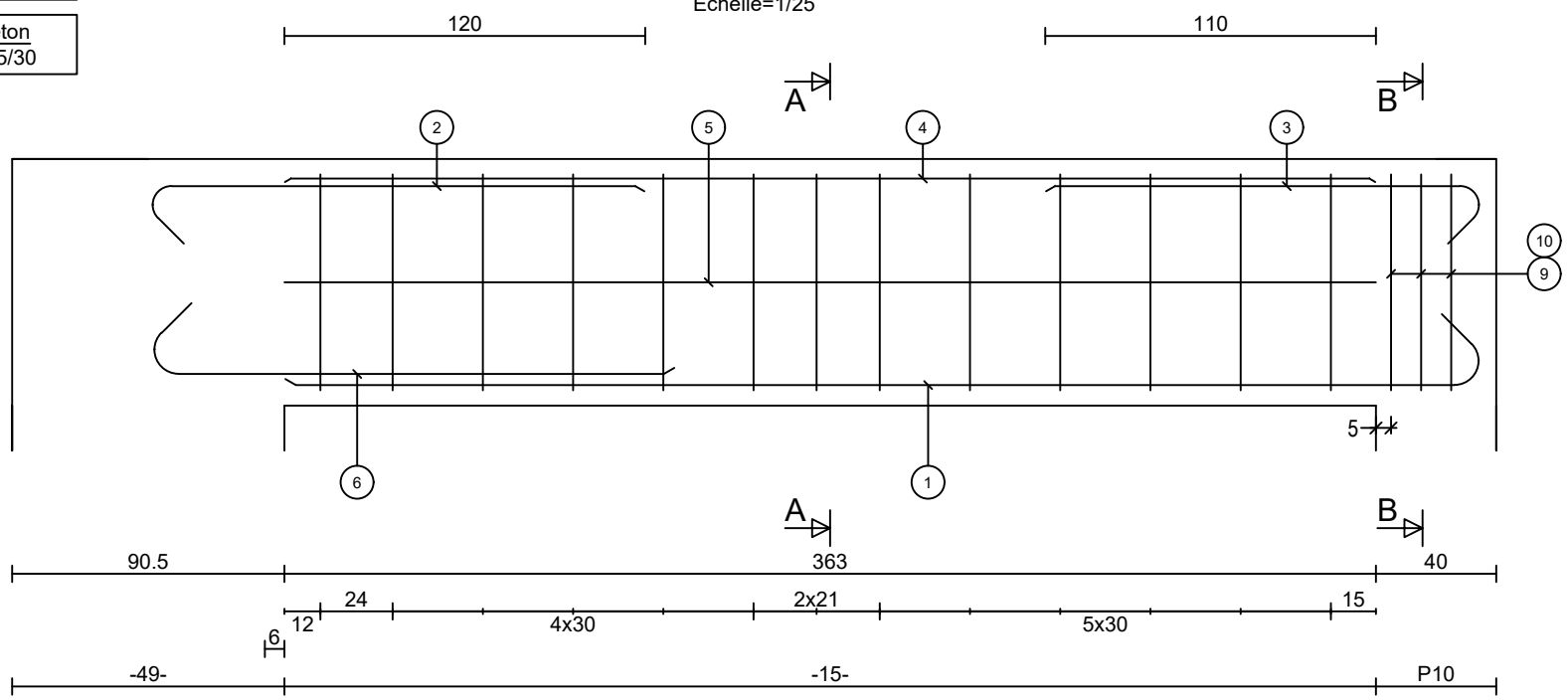
Section : 60 x 82ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

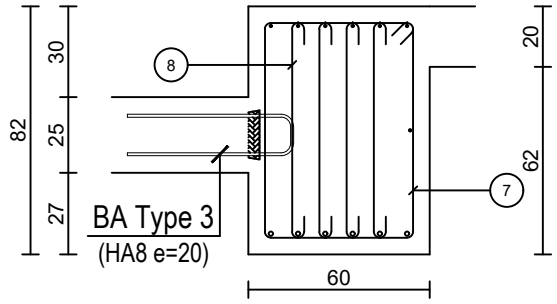
* Aciers non soudés

Béton C25/30

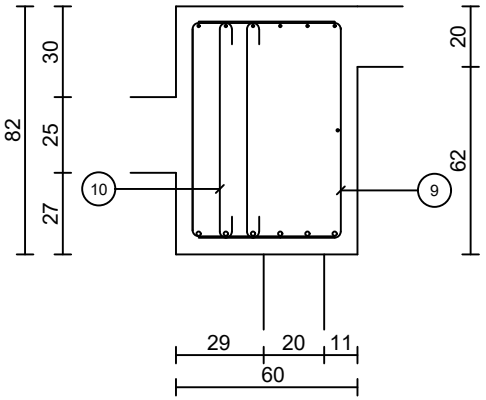
Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



		Barre	Lg	Forme
	1	6HA14	422	16 Ø 23 — 398 — 135°
*	2	6HA12	184	13 Ø 19 — 165 — 135°
*	3	6HA12	165	135° Ø 19 — 13 — 145
	4	6HA8	363	363
	5	1HA8	363	363
*	6	6HA14	198	135° 23 Ø 16 — 174
	7	13HA8	253	72 / 50
	8	52HA8	90	72
*	9	3x 2U HA8 (e=10cm)	172	72 / 50
*	10	3x 2HA8 (e=10cm)	90	72

Barre	Lg/Poids
HA8	104.9/41.4
HA12	20.9/18.6
HA14	37.2/44.9

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-16-	Béton=3.62 m3 Acier=261.5 kg d=72.2 kg/m3 Fi=10.9 mm Cof=8.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

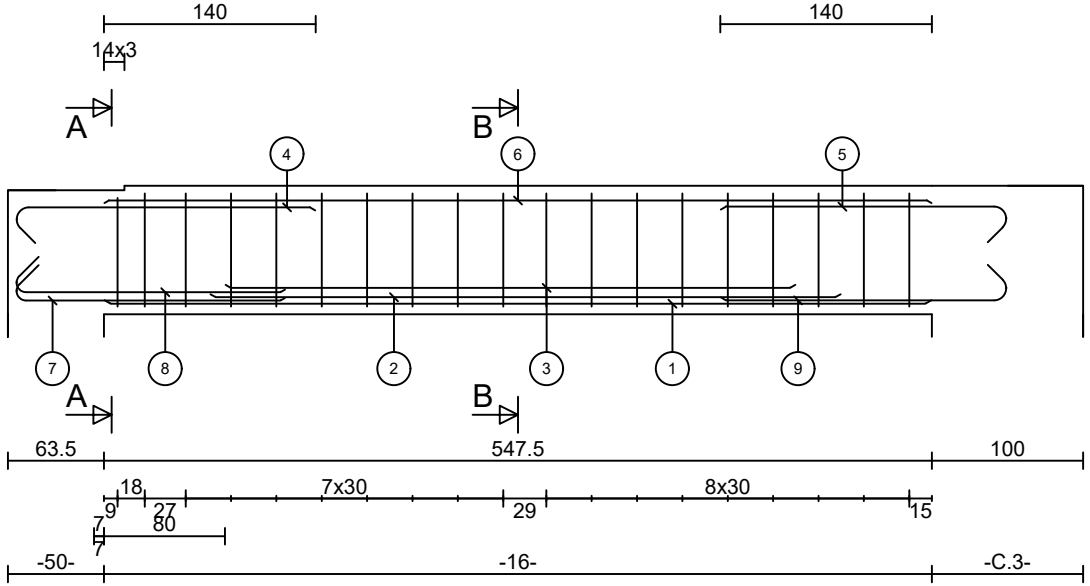
Section : 60 x 85ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

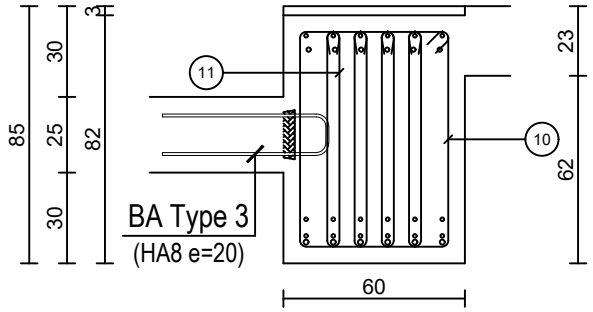
Béton C25/30

Elévation
Echelle=1/50

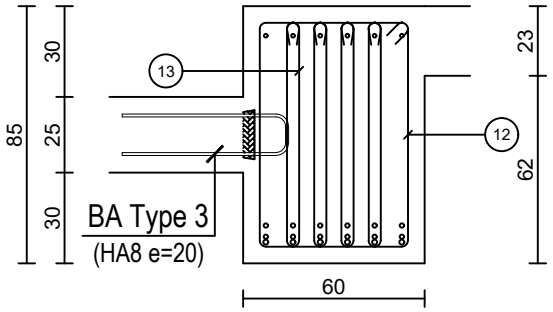


	Barre		Lg	Forme
	1	6HA16	548	548
	2	6HA14	417	417
	3	6HA14	377	377
*	4	6HA14	222	16 / 23 / 135° / 198
*	5	6HA14	214	23 / 135° / 16 / 190
	6	6HA8	547	547
*	7	6HA12	204	25 / 135° / 13 / 179
*	8	6HA12	204	25 / 135° / 13 / 179
*	9	6HA14	214	16 / 23 / 135° / 190
	10	1HA8	253	72 / 50
	11	4HA8	163	72
	12	18HA8	259	75 / 50
	13	72HA8	169	75

Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



Barre	Lg/Poids
HA8	210.5/83.2
HA12	24.5/21.8
HA14	86.7/104.8
HA16	32.9/51.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-17-	Béton=2.00 m3 Acier=200.1 kg d=100.2 kg/m3 Fi=11.3 mm Cof=4.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

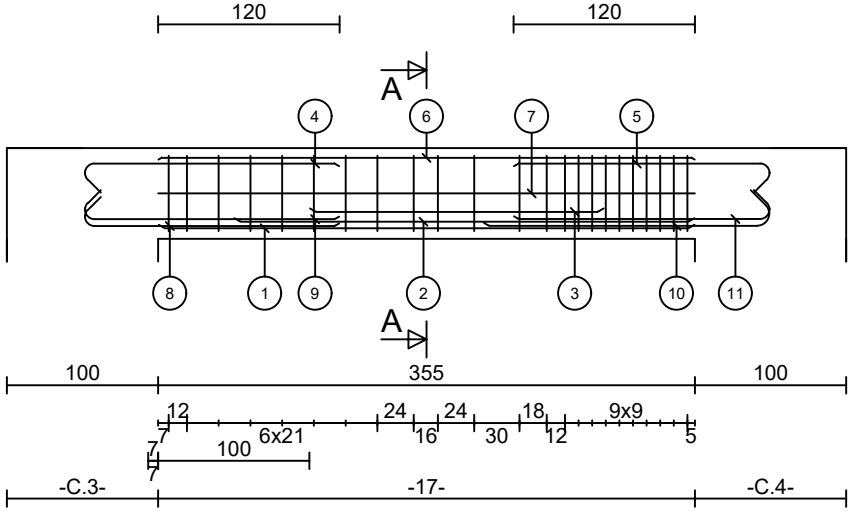
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

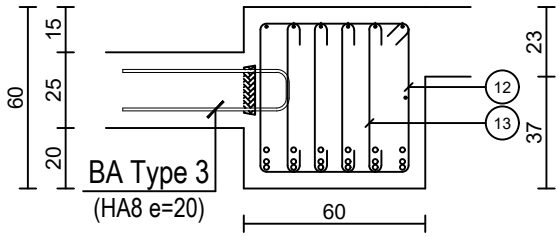
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
	1	6HA16	355	355
	2	6HA16	305	305
	3	6HA16	195	195
*	4	6HA12	189	19 13 135° 169
*	5	6HA12	190	19 135° 13 170
	6	6HA8	355	355
	7	1HA8	355	355
*	8	6HA12	189	19 135° 13 169
*	9	6HA12	189	19 135° 13 169
*	10	6HA14	214	23 16 135° 190
*	11	6HA12	190	19 13 135° 170
	12	23HA8	209	50 50
	13	92HA8	68	50

Barre	Lg/Poids
HA8	135.0/53.3
HA12	56.7/50.4
HA14	12.8/15.5
HA16	51.3/81.0

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-18-	Béton=2.40 m3 Acier=86.3 kg d=36.0 kg/m3 Fi=9.5 mm Cof=4.6 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

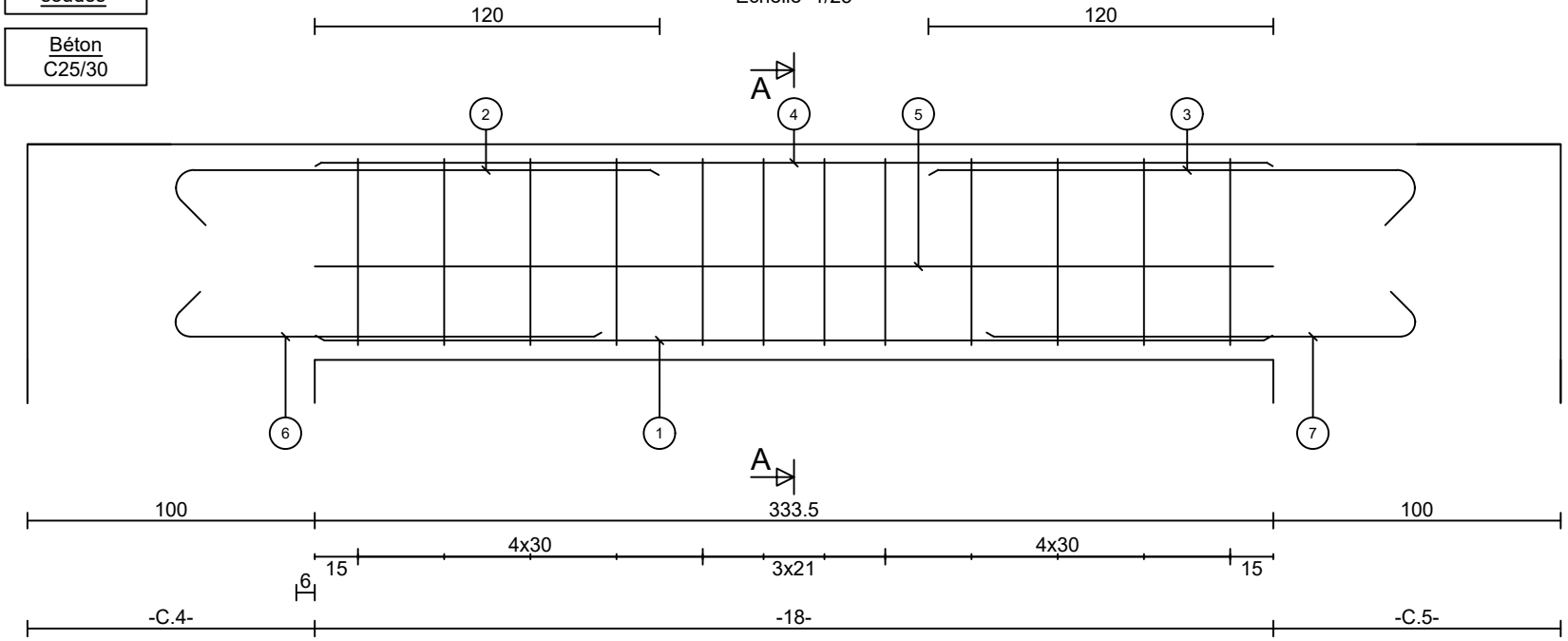
Section : 60 x 75ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

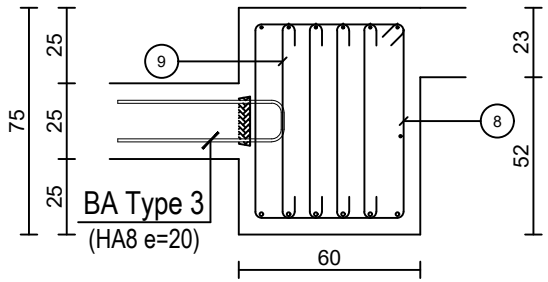
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	6HA12	333	333
2	6HA12	189	19, 13, 135°, 169
3	6HA12	190	19, 135°, 13, 170
4	6HA8	334	334
5	1HA8	334	334
6	6HA10	165	16, 135°, 10, 149
7	6HA10	166	15, 10, 135°, 150
8	12HA8	239	65, 50
9	48HA8	83	65

Barre	Lg/Poids
HA8 HA10 HA12	91.6/36.2 19.9/12.3 42.7/37.9

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-19-	Béton=3.61 m3 Acier=332.4 kg d=92.1 kg/m3 Fi=12.1 mm Cof=7.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 60 x 80ht

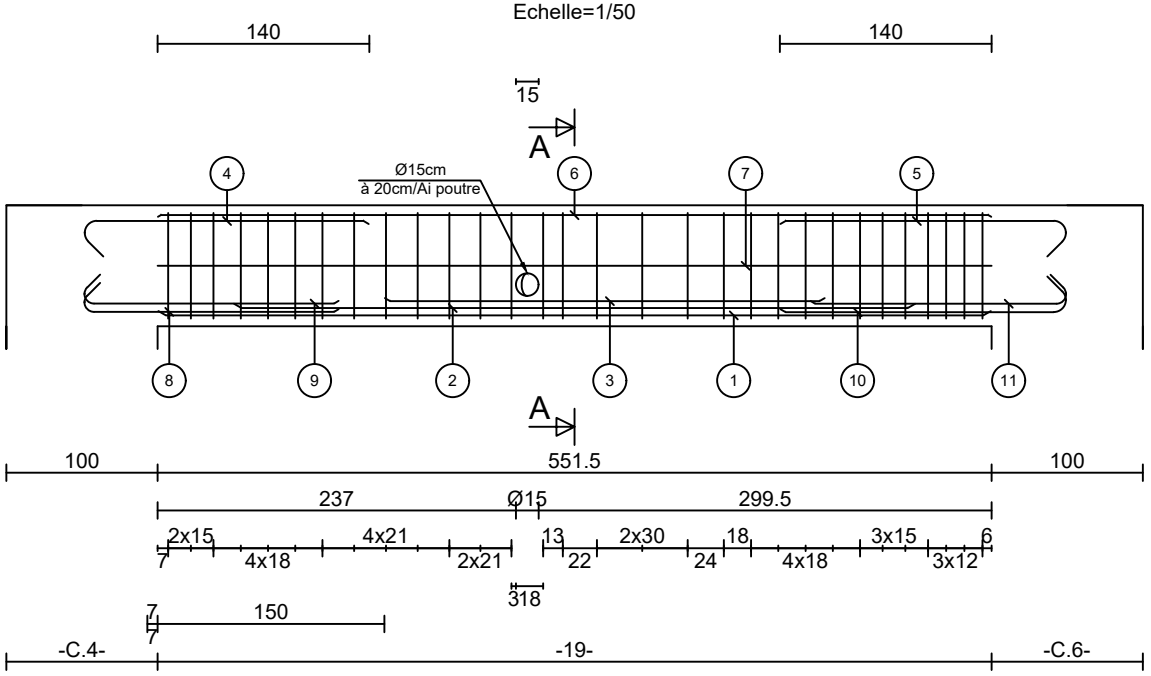
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

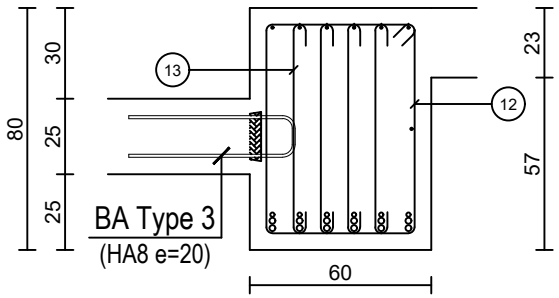
Elévation

Echelle=1/50



Coupe A-A

Echelle=1/25



	Barre	Lg	Forme
1	6HA20	551	551
2	6HA20	452	452
3	6HA14	291	291
* 4	6HA14	213	23 / 16 / 135° / 189
* 5	6HA14	214	23 / 135° / 16 / 190
6	6HA8	552	552
7	1HA8	552	552
* 8	6HA12	189	19 / 135° / 13 / 169
* 9	6HA12	189	19 / 135° / 13 / 169
* 10	6HA14	214	23 / 16 / 190 / 135°
* 11	6HA12	190	19 / 13 / 135° / 170
12	30HA8	249	70 / 50
13	120HA8	88	70

Barre	Lg/Poids
HA8	218.3/86.2
HA12	34.0/30.2
HA14	55.9/67.6
HA20	60.2/148.4

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-20-	Béton=2.00 m3 Acier=158.0 kg d=79.1 kg/m3 Fi=10.9 mm Cof=4.1 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

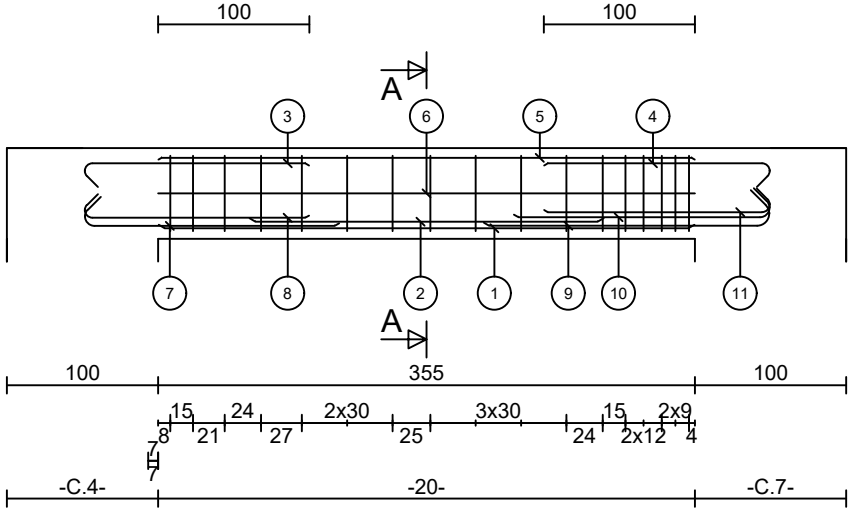
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

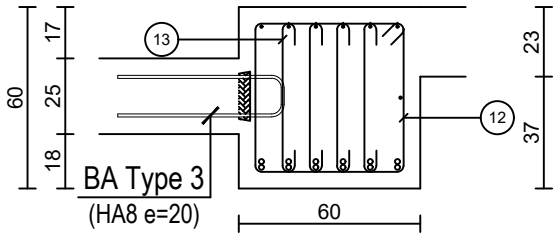
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
	1	6HA16	355	355
	2	6HA16	235	235
*	3	6HA10	165	10 / 15 / 135° / 149
*	4	6HA10	166	15 / 135° / 10 / 150
	5	6HA8	355	355
	6	1HA8	355	355
*	7	6HA12	189	19 / 135° / 13 / 169
*	8	6HA10	165	16 / 135° / 10 / 149
*	9	6HA14	214	13 / 16 / 135° / 190
*	10	6HA12	190	13 / 19 / 135° / 170
*	11	6HA10	166	10 / 15 / 135° / 150
	12	17HA8	209	50 / 50
	13	68HA8	68	50

Barre	Lg/Poids
HA8	106.3/42.0
HA10	39.8/24.5
HA12	22.7/20.2
HA14	12.8/15.5
HA16	35.4/55.9

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-25-	Béton=1.81 m3 Acier=232.0 kg d=128.2 kg/m3 Fi=10.9 mm Cof=4.6 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

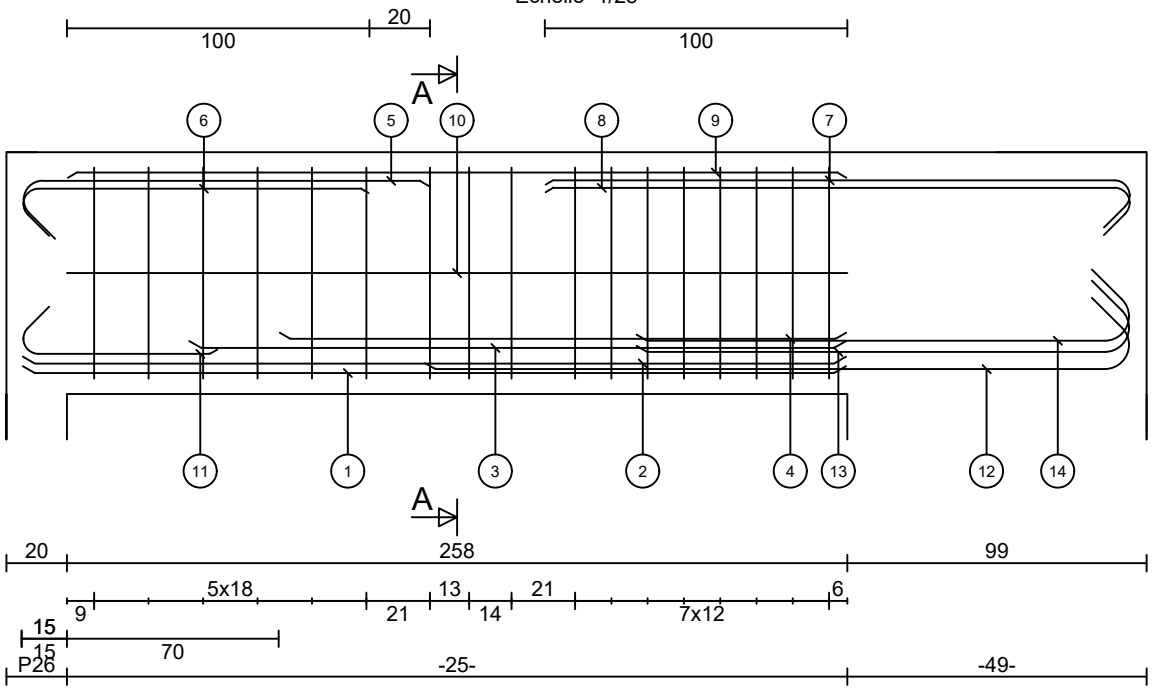
Section : 60 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

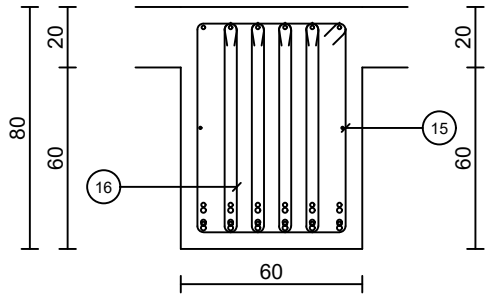
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
	1	6HA16	273	273
	2	6HA16	273	273
	3	6HA16	218	218
	4	6HA14	188	188
*	5	6HA12	155	19 13 135 135°
*	6	6HA10	131	15 10 115 135°
*	7	6HA10	210	16 135° 10 194
*	8	6HA10	210	16 135° 10 194
	9	6HA8	258	258
	10	2HA8	258	258
	11	6HA10	81	16 135° 10 65
*	12	6HA14	258	23 16 234 135°
*	13	6HA14	188	23 16 164 135°
*	14	6HA14	188	23 16 164 135°
	15	17HA8	249	70 50
	16	68HA8	159	70

Barre	Lg/Poids
HA8	171.4/67.7
HA10	39.2/24.2
HA12	9.3/8.2
HA14	49.3/59.6
HA16	45.8/72.3

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-29-	Béton=2.66 m3 Acier=321.4 kg d=120.6 kg/m3 Fi=11.5 mm Cof=6.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 60 x 80ht

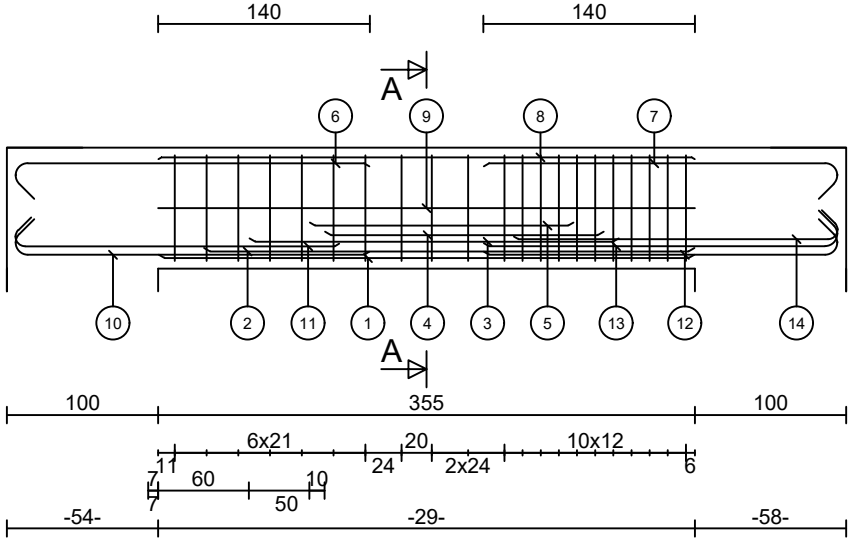
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

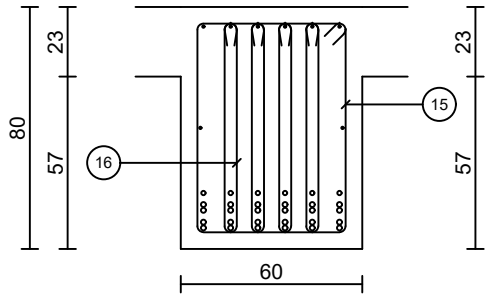
Elévation

Echelle=1/50



Coupe A-A

Echelle=1/25



	Barre		Lg	Forme
1	6HA16	355		355
2	6HA16	325		325
3	6HA16	245		245
4	6HA16	185		185
5	6HA14	175		175
* 6	6HA14	259		16 Ø 23 135° 235
* 7	6HA14	259		135° 23 Ø 16 235
8	6HA8	355		355
9	2HA8	355		355
* 10	6HA14	259		135° 23 Ø 16 235
* 11	6HA12	235		135° 19 Ø 13 215
* 12	6HA14	259		16 Ø 23 135° 235
* 13	6HA14	259		16 Ø 23 135° 235
* 14	6HA12	235		13 Ø 19 135° 215
15	21HA8	249		70 50
16	84HA8	159		70

Barre	Lg/Poids
HA8	214.6/84.8
HA12	28.2/25.0
HA14	88.2/106.5
HA16	66.6/105.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-30-	Béton=6.15 m3 Acier=478.8 kg d=77.9 kg/m3 Fi=10.5 mm Cof=14.6 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 80 x 113ht

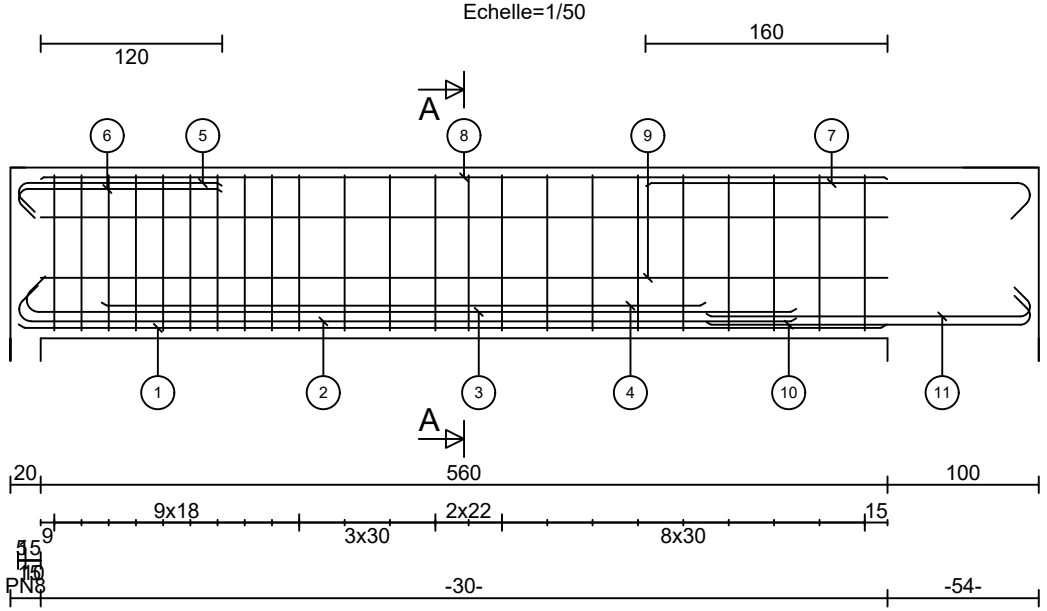
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

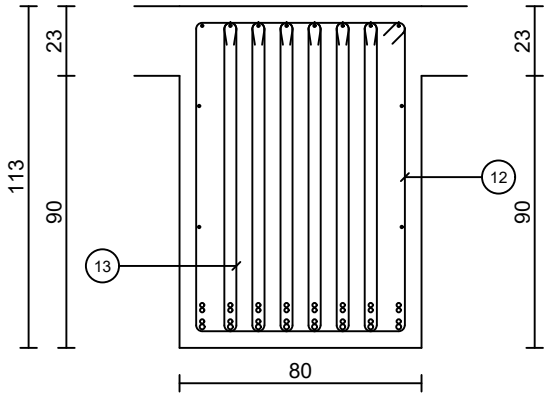
Elévation

Echelle=1/50



Coupe A-A

Echelle=1/25



	Barre		Lg	Forme
1	8HA16		575	575
2	8HA14		539	23 / 16 / 135° / 515
3	8HA14		534	23 / 16 / 135° / 510
4	8HA14		400	400
* 5	8HA12		155	19 / 13 / 135° / 135
* 6	8HA12		155	19 / 13 / 135° / 135
* 7	8HA14		279	23 / 16 / 135° / 255
8	8HA8		560	560
9	4HA8		560	560
* 10	8HA12		235	19 / 13 / 135° / 215
* 11	8HA12		235	19 / 13 / 135° / 215
12	23HA8		355	103 / 70
13	138HA8		225	103

Barre	Lg/Poids
HA8	460.0/181.7
HA12	62.3/55.3
HA14	140.2/169.3
HA16	46.0/72.6

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-31-	Béton=4.23 m3 Acier=899.3 kg d=212.7 kg/m3 Fi=14.5 mm Cof=11.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

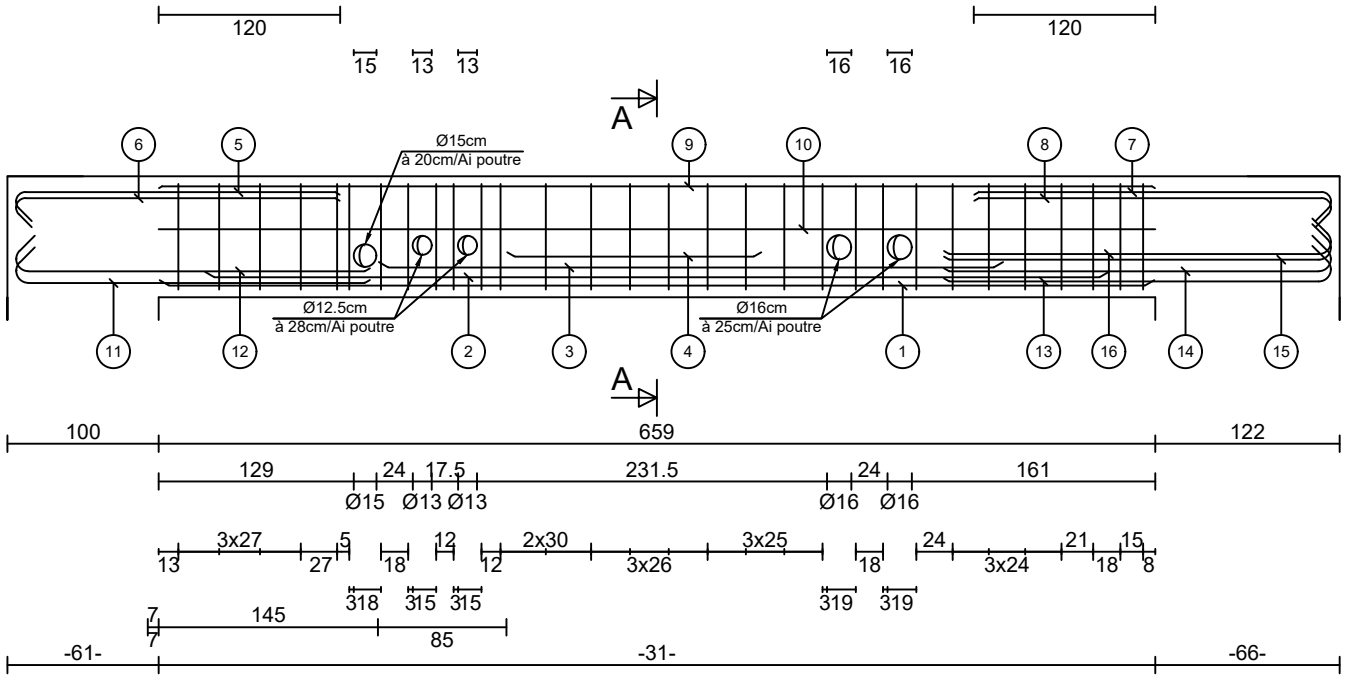
Section : 60 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

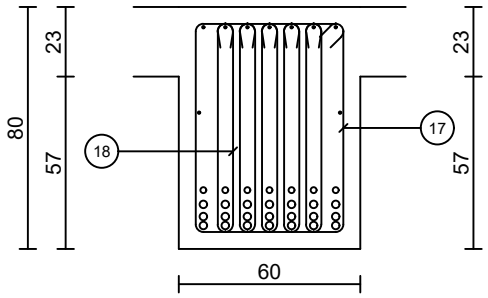
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-31-	Béton=4.23 m3 Acier=899.3 kg d=212.7 kg/m3 Fi=14.5 mm Cof=11.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

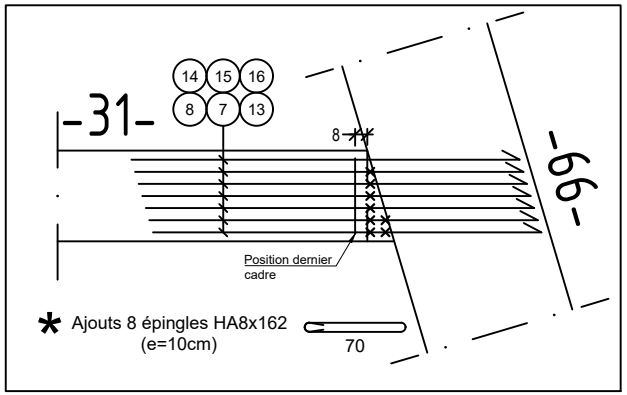
Section : 60 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton
C25/30

VEP - Aciers sur appui droite
Echelle=1/50



	Barre		Lg	Forme
	1	7HA25	659	659
	2	7HA25	599	599
	3	7HA25	414	414
	4	7HA20	169	169
*	5	7HA12	235	19 / 13 / 135° / 215
*	6	7HA12	235	19 / 13 / 135° / 215
*	7	7HA12	257	19 / 135° / 13 / 237
*	8	7HA12	257	19 / 135° / 13 / 237
	9	7HA8	659	659
	10	2HA8	659	659
*	11	7HA14	259	23 / 135° / 16 / 235
*	12	7HA14	259	23 / 135° / 16 / 235
*	13	7HA14	281	16 / 23 / 135° / 257
*	14	7HA14	281	16 / 23 / 135° / 257
*	15	7HA14	281	16 / 23 / 135° / 257
*	16	7HA14	281	16 / 23 / 135° / 257
	17	30HA10	249	70 / 50
	18	158HA10	162	70

Barre	Lg/Poids	Barre	Lg/Poids
HA8	59.3/23.4	HA14	114.9/138.8
HA10	317.5/195.9	HA20	11.8/29.2
HA12	68.8/61.1	HA25	117.0/451.0

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-35-	Béton=1.79 m3 Acier=232.5 kg d=130.0 kg/m3 Fi=12.4 mm Cof=3.1 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

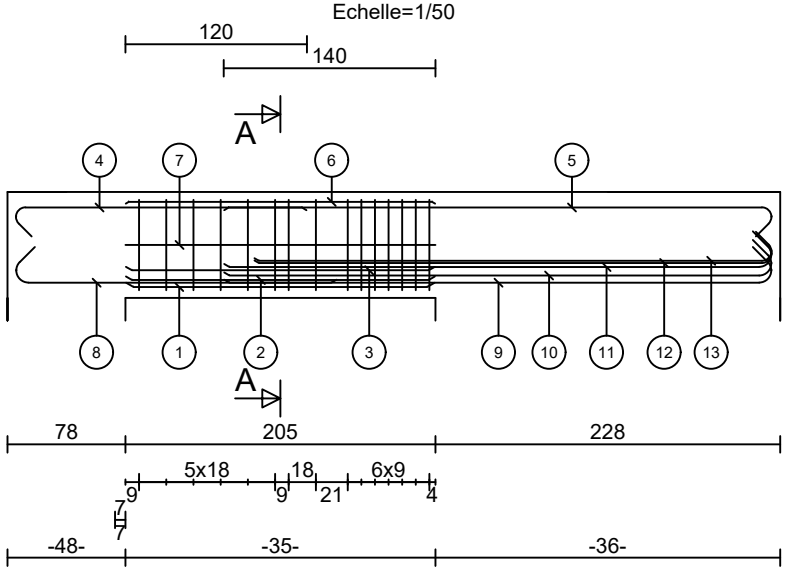
Section : 50 x 70ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

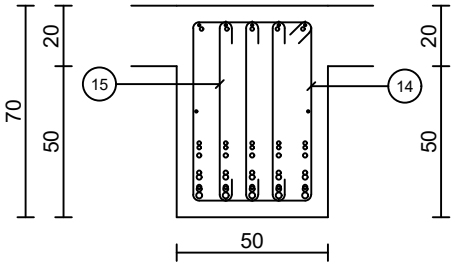
* Aciers non soudés

Béton C25/30

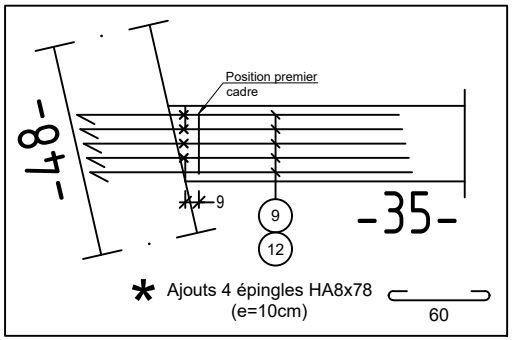
Elévation
Echelle=1/50



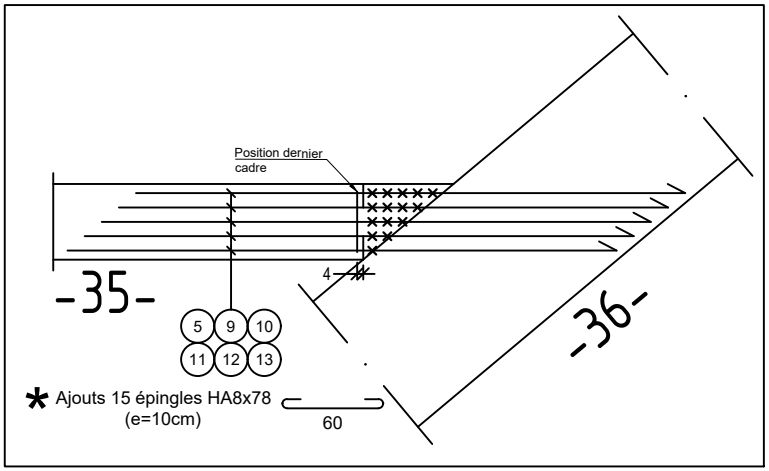
Coupe A-A
Echelle=1/25



VEP - Aciers sur appui gauche
Echelle=1/50



VEP - Aciers sur appui droite
Echelle=1/50



	Barre		Lg	Forme
	1	5HA20	205	205
	2	5HA16	205	205
	3	5HA16	205	205
*	4	5HA12	213	19 13 135° 193
*	5	5HA12	383	19 135° 13 363
	6	5HA8	205	205
	7	2HA8	205	205
*	8	5HA14	237	23 135° 16 213
*	9	5HA14	387	23 16 135° 363
*	10	5HA14	387	23 16 135° 363
*	11	5HA14	387	23 16 135° 363
*	12	5HA12	363	19 13 135° 343
*	13	5HA12	363	19 13 135° 343
	14	15HA8	209	60 40
	15	64HA8	78	60

Barre	Lg/Poids
HA8	80.6/31.8
HA12	66.0/58.6
HA14	69.9/84.4
HA16	20.5/32.3
HA20	10.2/25.3

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-36-	Béton=10.34 m3 Acier=1321.9 kg d=127.9 kg/m3 Fi=12.3 mm Cof=16.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

Section : 108 x 134/118/110ht

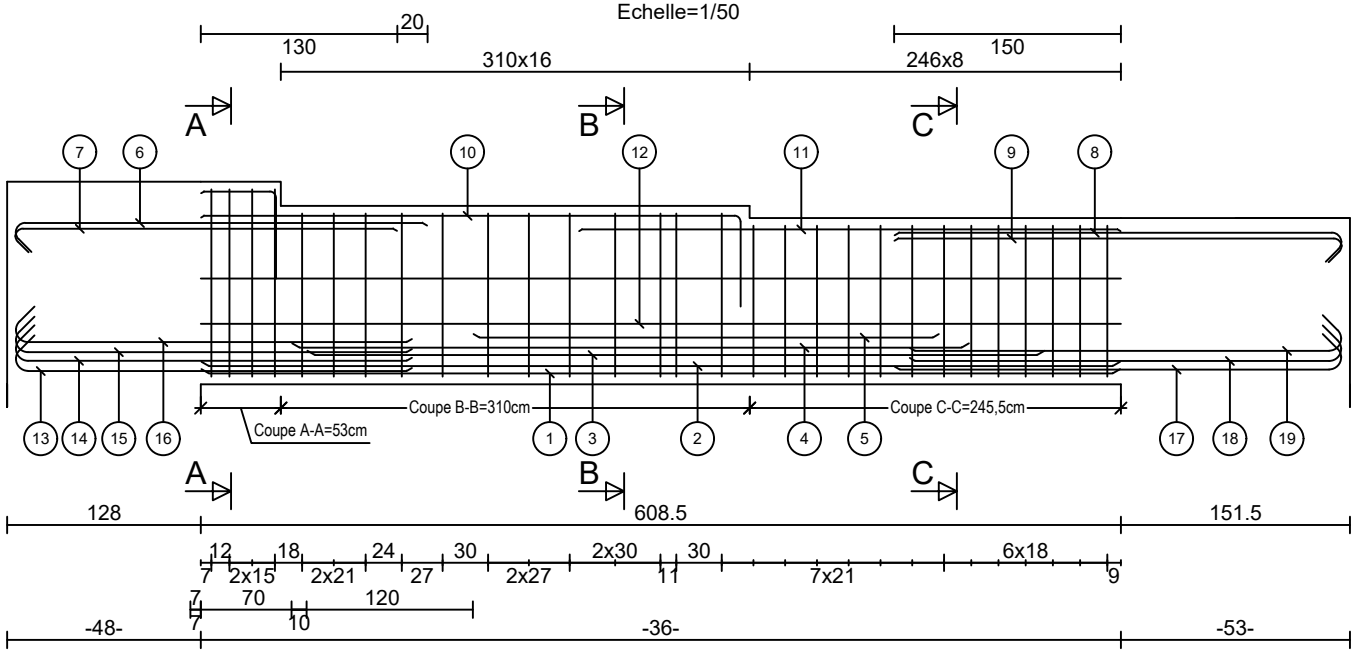
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

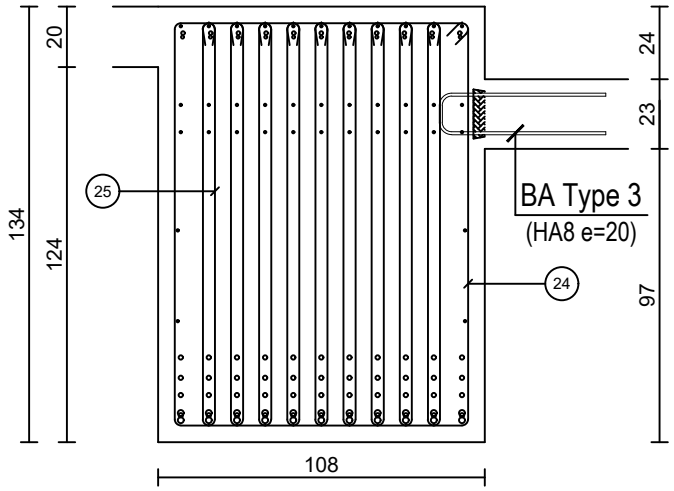
Elévation

Echelle=1/50



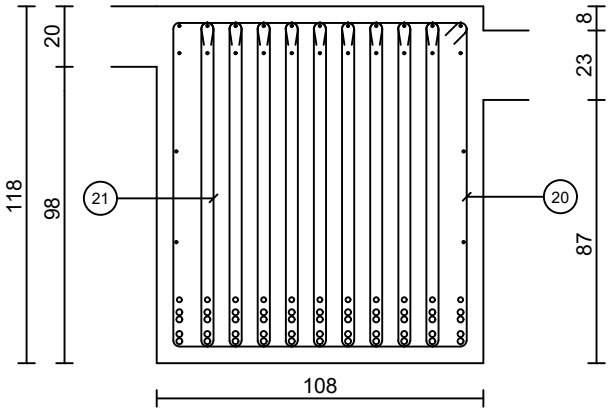
Coupe A-A

Echelle=1/25



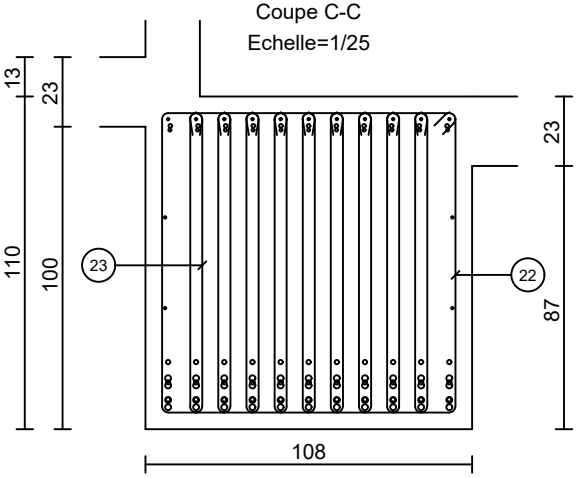
Coupe B-B

Echelle=1/25



Coupe C-C

Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-36-	Béton=10.34 m3 Acier=1321.9 kg d=127.9 kg/m3 Fi=12.3 mm Cof=16.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

Section : 108 x 110ht

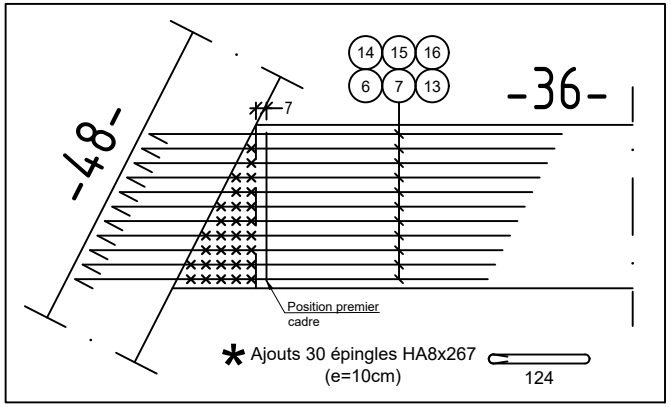
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

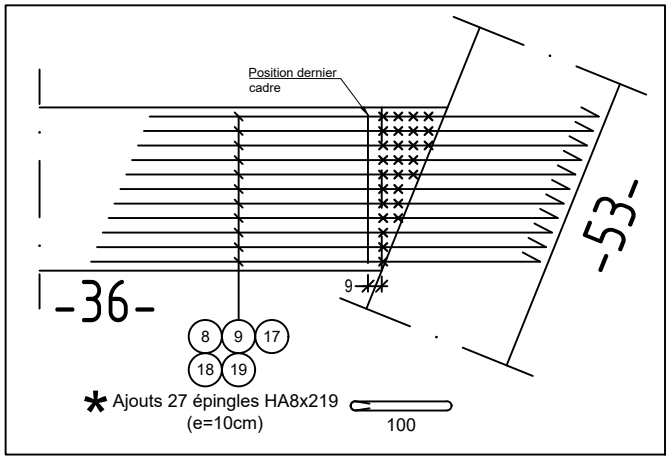
VEP - Aciers sur appui gauche

Echelle=1/50



VEP - Aciers sur appui droite

Echelle=1/50



	Barre		Lg	Forme
1	11HA20		608	608
2	11HA20		609	609
3	11HA20		488	488
4	11HA20		448	448
5	11HA16		308	308
* 6	11HA12		293	19 / 13 / 135° / 273
* 7	11HA10		269	15 / 10 / 135° / 253
* 8	11HA12		316	19 / 135° / 13 / 297
* 9	11HA10		313	16 / 135° / 10 / 297
10	11HA8		415	60 / 90° / 8 / 358
11	11HA8		359	359
12	4HA8		609	609
* 13	11HA14		287	23 / 135° / 16 / 263
* 14	11HA14		287	23 / 135° / 16 / 263
* 15	11HA14		287	23 / 135° / 16 / 263
* 16	11HA14		287	23 / 135° / 16 / 263
* 17	11HA14		320	23 / 16 / 135° / 297

	Barre		Lg	Forme
* 18	11HA14		310	23 / 16 / 135° / 287
* 19	11HA14		310	23 / 16 / 135° / 287
20	16HA8		421	108 / 98
21	144HA8		235	108
22	13HA8		405	100 / 98
23	144HA8		219	100
24	4HA8		453	124 / 98
25	66HA8		267	124

Barre	Lg/Poids	Barre	Lg/Poids
HA8	778.9/307.7	HA14	229.8/277.7
HA10	64.0/39.5	HA16	33.9/53.5
HA12	67.0/59.5	HA20	236.9/584.3

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-37-	Béton=3.48 m3 Acier=343.7 kg d=98.8 kg/m3 Fi=11.4 mm Cof=9.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

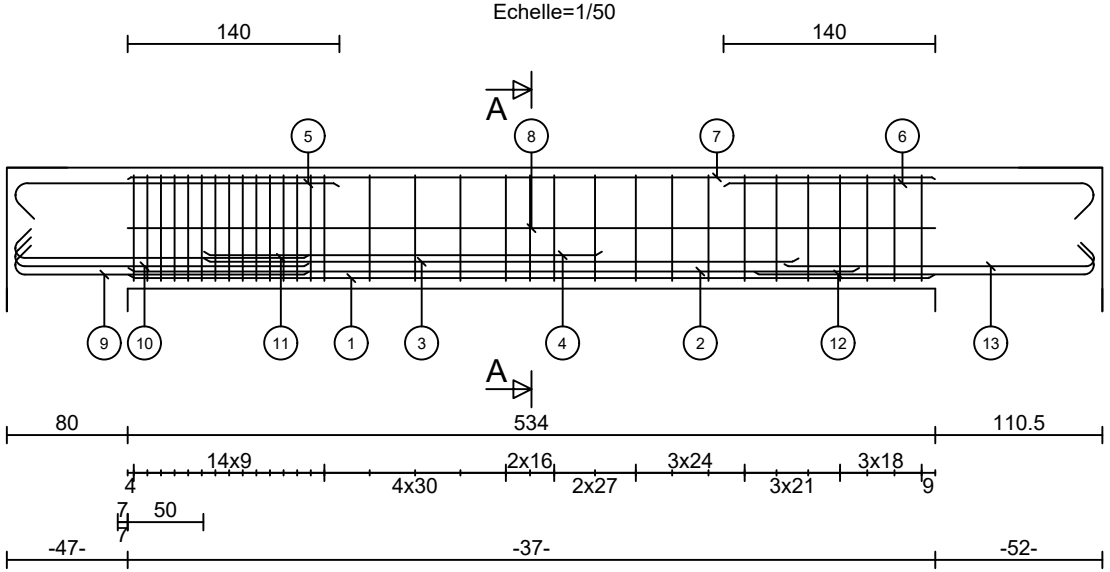
Section : 60 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

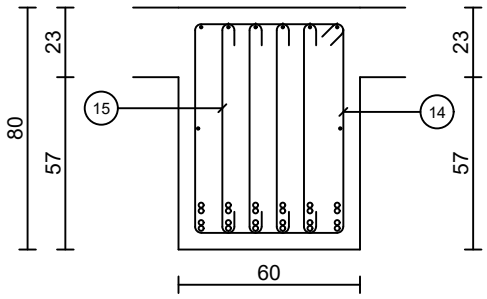
* Aciers non soudés

Béton
C25/30

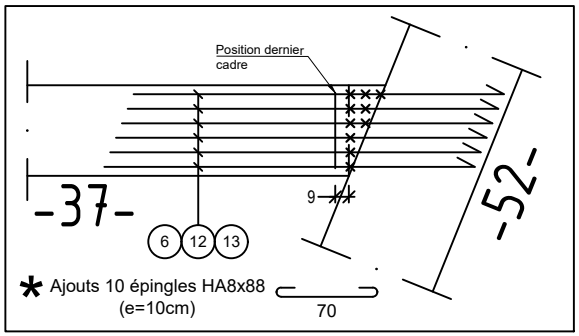
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



	Barre		Lg	Forme
1	6HA16	534		534
2	6HA16	484		484
3	6HA16	394		394
4	6HA16	264		264
* 5	6HA14	239		23 16 135° 215
* 6	6HA14	269		23 135° 16 245
7	6HA8	534		534
8	2HA8	534		534
* 9	6HA12	215		19 135° 13 195
* 10	6HA12	215		19 135° 13 195
* 11	6HA12	215		19 135° 13 195
* 12	6HA12	245		19 13 135° 226
* 13	6HA10	222		15 10 135° 206
14	32HA8	249		70 50
15	138HA8	88		70

Barre	Lg/Poids
HA8	234.4/92.6
HA10	13.3/8.2
HA12	53.4/47.4
HA14	30.5/36.9
HA16	100.6/158.7

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-38-	Béton=0.74 m3 Acier=44.7 kg d=60.3 kg/m3 Fi=10.3 mm Cof=2.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

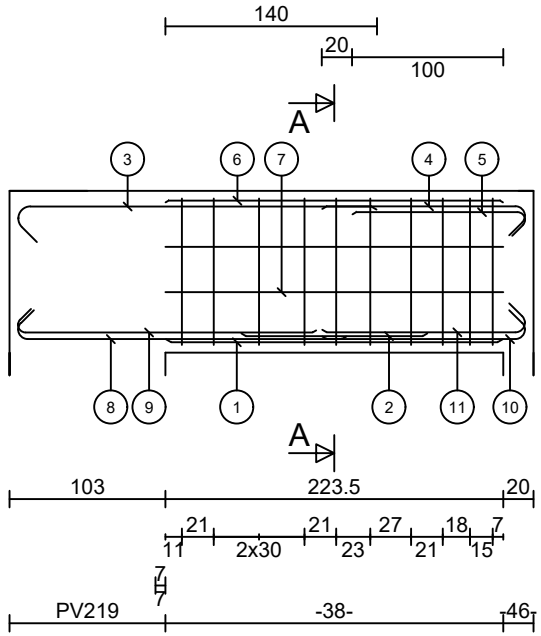
Section : 20 x 107ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

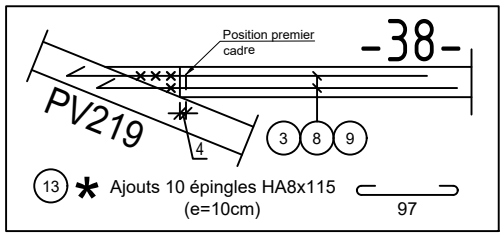
* Aciers non soudés

Béton C25/30

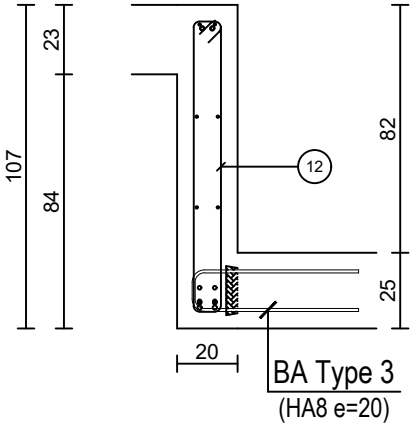
Elévation
Echelle=1/50



VEP - Aciers sur appui gauche
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	2HA14	224	224
2	2HA12	123	123
* 3	2HA14	262	16 / 23 / 135° / 238
* 4	2HA12	155	135° / 19 / 13 / 135
* 5	2HA10	131	135° / 16 / 10 / 115
6	2HA8	224	224
7	4HA8	223	223
* 8	2HA12	238	135° / 19 / 13 / 218
* 9	2HA10	214	135° / 16 / 10 / 198
* 10	2HA12	155	13 / 19 / 135° / 135
* 11	2HA12	155	13 / 19 / 135° / 135
12	10HA8	223	97 / 10
13	4HA8	115	97

Barre	Lg/Poids
HA8	35.7/14.1
HA10	6.9/4.3
HA12	16.5/14.7
HA14	9.7/11.7

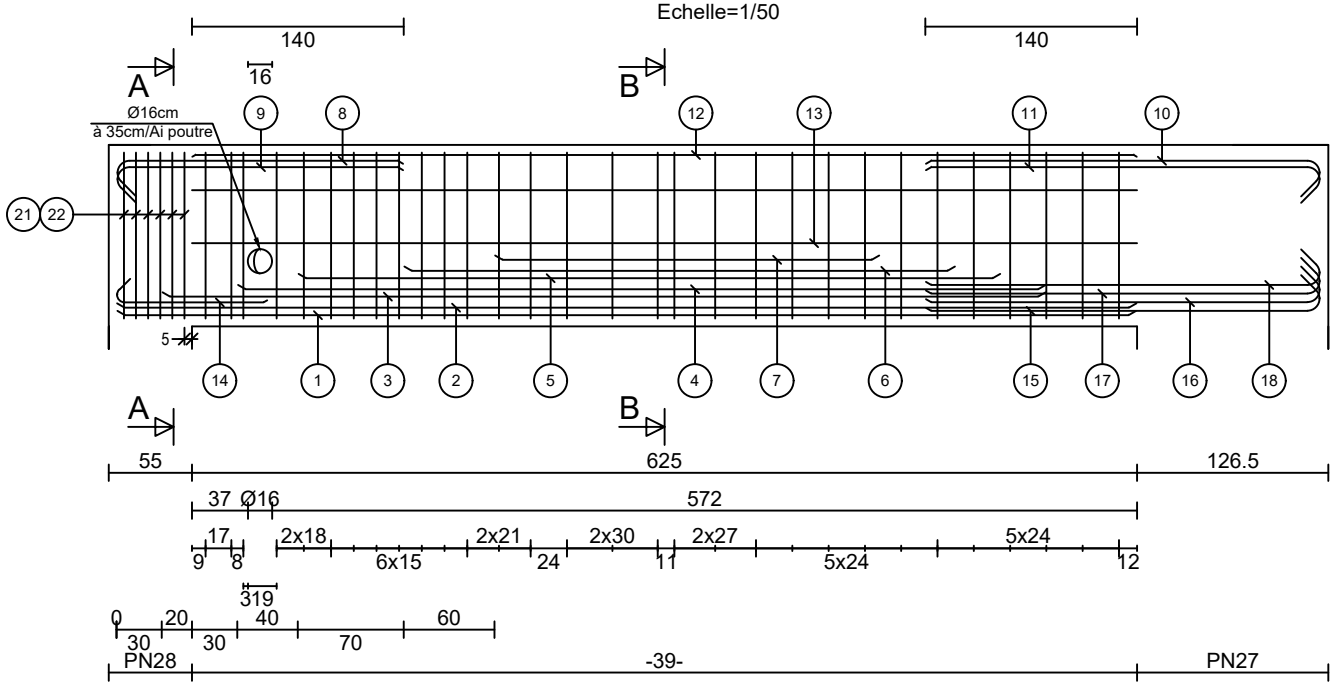
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-39-	Béton=9.68 m3 Acier=1610.6 kg d=166.4 kg/m3 Fi=13.8 mm Cof=18.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2
Section : 100 x 120ht				
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

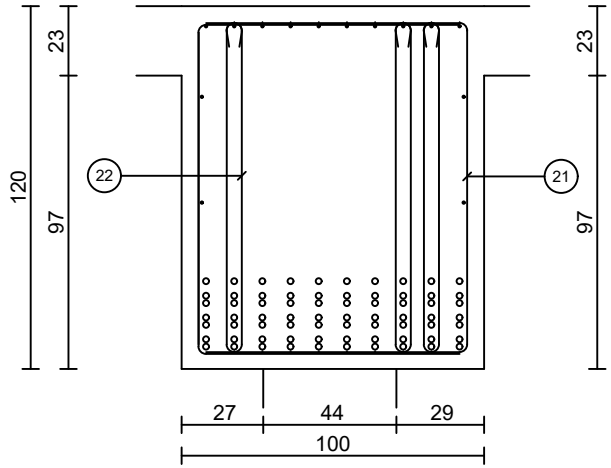
* Aciers non soudés

Béton
C25/30

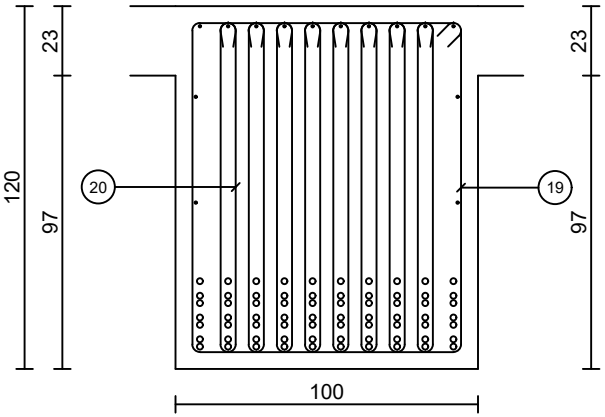
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-39-	Béton=9.68 m3 Acier=1610.6 kg d=166.4 kg/m3 Fi=13.8 mm Cof=18.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

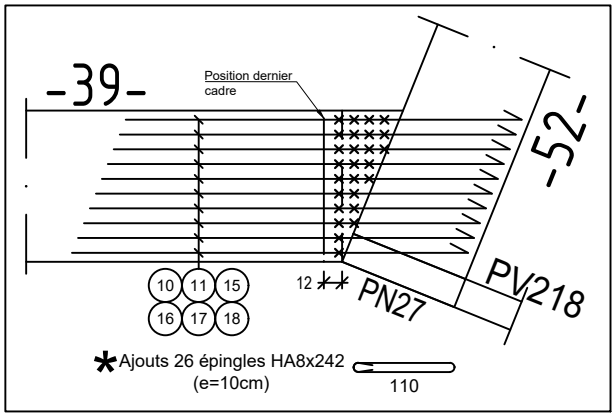
Section : 100 x 120ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton
C25/30

VEP - Aciers sur appui droite
Echelle=1/50



	Barre		Lg	Forme
	1	10HA20	675	675
	2	10HA20	675	675
	3	10HA20	585	585
	4	10HA20	535	535
	5	10HA20	465	465
	6	10HA20	365	365
	7	10HA20	255	255
*	8	10HA14	214	16 23 135° 190
*	9	10HA14	214	16 23 135° 190
*	10	10HA14	285	23 16 135° 261
*	11	10HA14	285	23 16 135° 261
	12	10HA8	625	625
	13	4HA8	625	625
	14	10HA10	116	16 10 135° 100
*	15	10HA14	285	16 23 135° 262
*	16	10HA14	285	16 23 135° 262
*	17	10HA14	285	16 23 135° 262
*	18	10HA14	285	16 23 135° 262

	Barre		Lg	Forme
	19	30HA10	409	110 90
	20	266HA10	242	110
*	21	6x 2U HA10 (e=8cm)	290	110 90
*	22	6x 3HA10 (e=8cm)	242	110

Barre	Lg/Poids	Barre	Lg/Poids
HA8 HA10	87.5/34.6 714.9/441.1	HA14 HA20	214.1/258.6 355.5/876.6

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-40-	Béton=5.03 m3 Acier=422.8 kg d=84.1 kg/m3 Fi=11.1 mm Cof=6.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

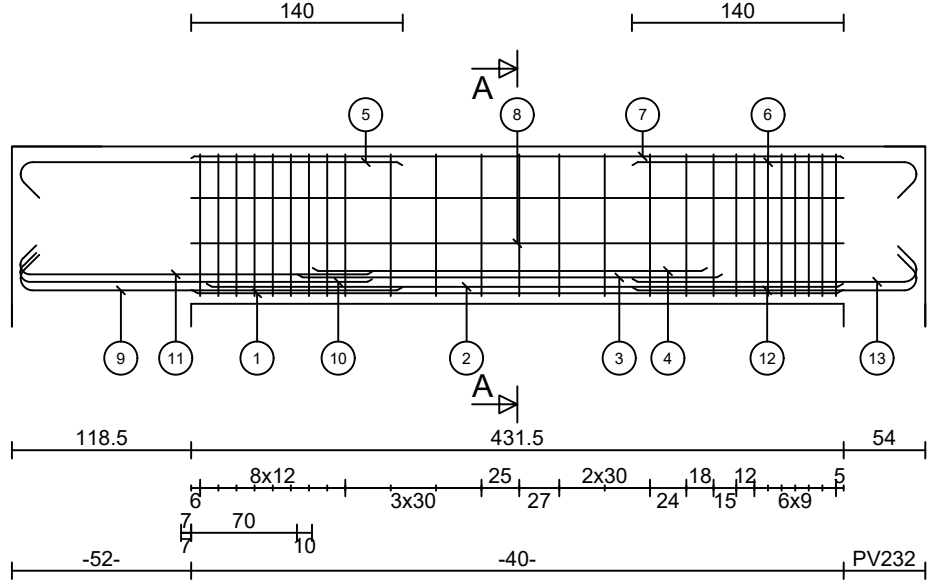
Section : 80 x 104ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

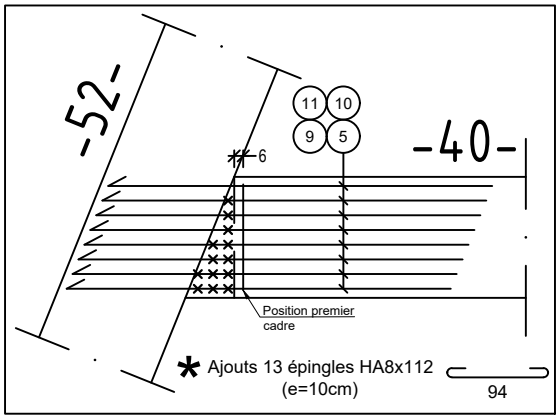
Béton C25/30

Elévation
Echelle=1/50

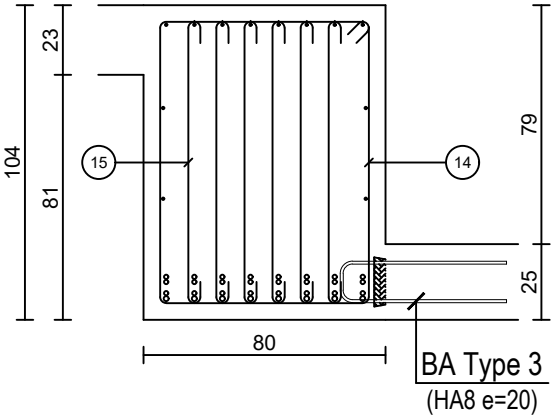


	Barre		Lg	Forme
1	8HA16	432	432	
2	8HA14	422	422	
3	8HA14	281	281	
4	8HA14	261	261	
* 5	8HA14	277	253	16 / 23 / 135°
* 6	8HA14	213	189	135° / 23 / 16
7	8HA8	432	432	
8	4HA8	431	431	
* 9	8HA14	277	254	135° / 23 / 16
* 10	8HA12	253	234	135° / 19 / 13
* 11	8HA12	253	234	135° / 19 / 13
* 12	8HA14	213	189	16 / 23 / 135°
* 13	8HA14	213	189	16 / 23 / 135°
14	26HA8	337	70	94
15	181HA8	112	94	

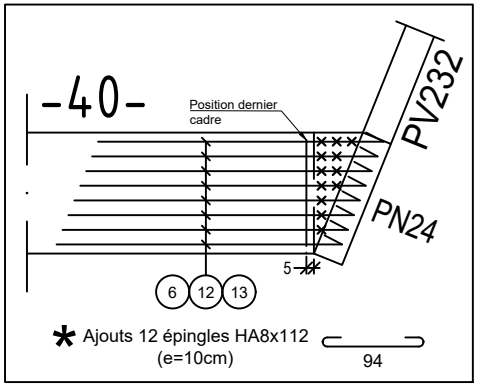
VEP - Aciers sur appui gauche
Echelle=1/50



Coupe A-A
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



Barre	Lg/Poids
HA8	313.4/123.8
HA12	40.5/36.0
HA14	172.7/208.6
HA16	34.5/54.5

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-41-	Béton=0.64 m3 Acier=119.4 kg d=187.9 kg/m3 Fi=12.8 mm Cof=1.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

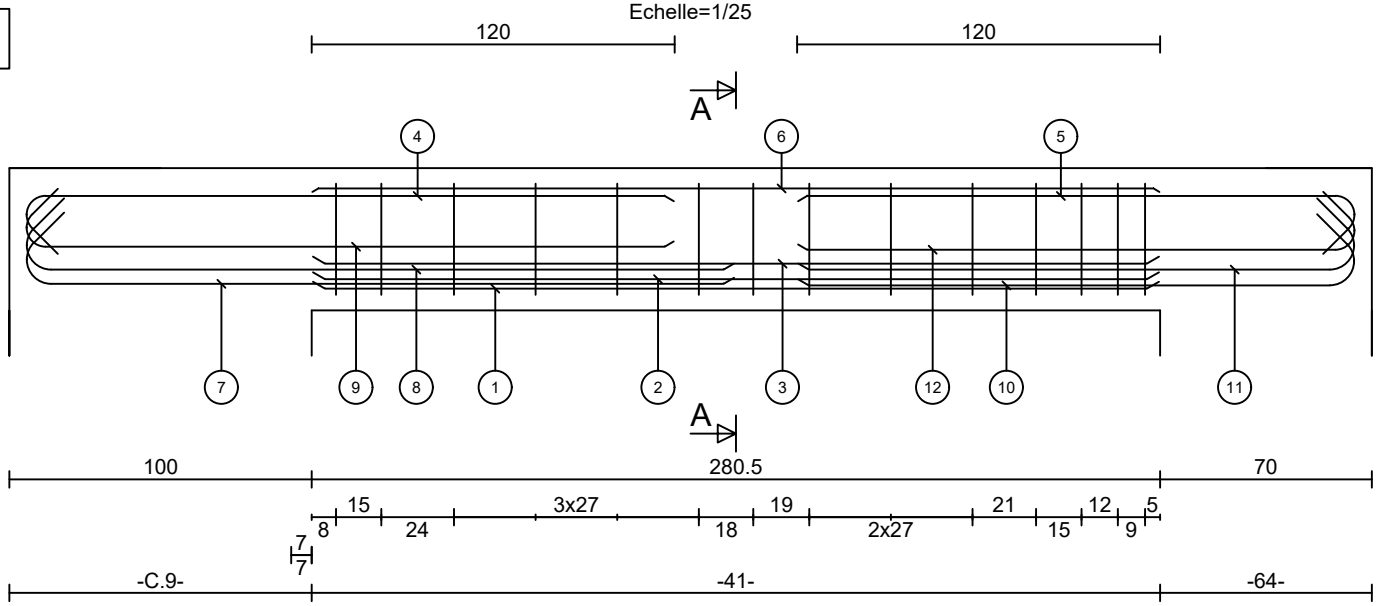
Section : 30 x 47ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

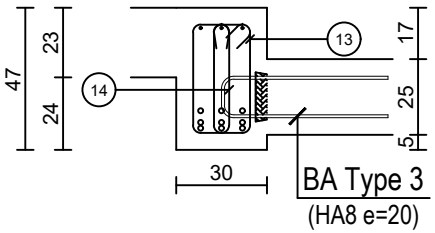
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
	1	3HA16	281	281
	2	3HA16	281	281
	3	3HA16	280	280
*	4	3HA12	235	19 / 13 / 135° / 215
*	5	3HA12	205	19 / 135° / 13 / 185
	6	3HA8	281	281
*	7	3HA14	259	23 / 135° / 16 / 235
*	8	3HA14	259	23 / 135° / 16 / 235
*	9	3HA12	235	19 / 135° / 13 / 215
*	10	3HA14	209	23 / 16 / 185 / 135°
*	11	3HA14	209	23 / 16 / 185 / 135°
*	12	3HA12	205	19 / 13 / 135° / 185
	13	14HA10	123	37 / 20
	14	14HA10	96	37

Barre	Lg/Poids
HA8	8.4/3.3
HA10	30.6/18.9
HA12	26.4/23.4
HA14	28.1/33.9
HA16	25.2/39.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-42-	Béton=3.10 m3 Acier=493.5 kg d=159.4 kg/m3 Fi=14.1 mm Cof=8.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 60 x 80ht

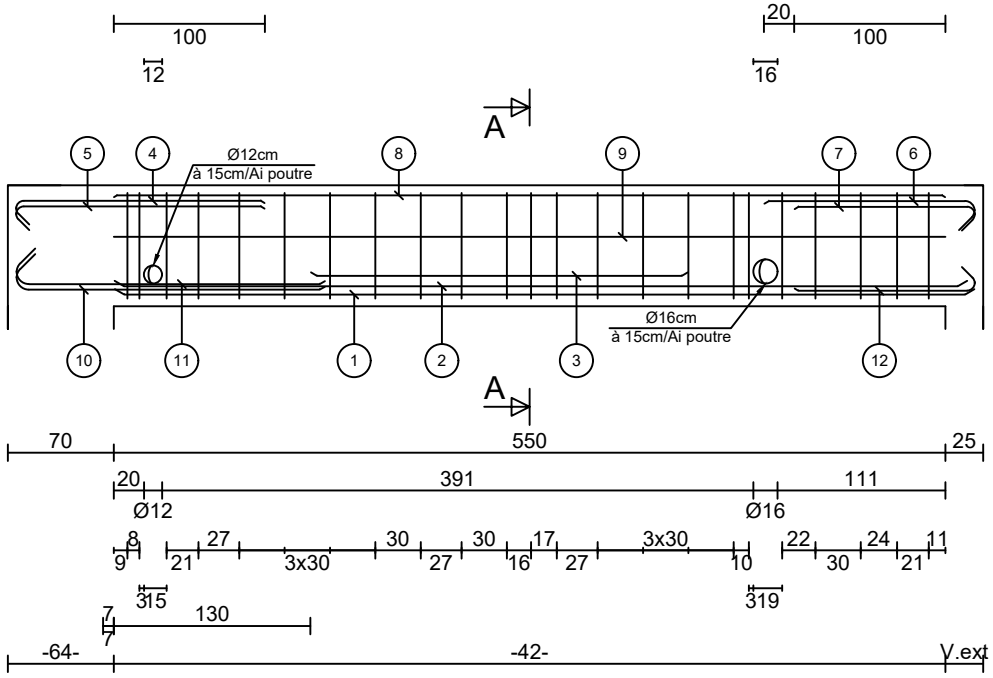
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

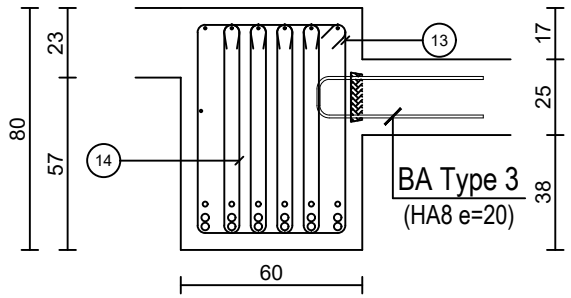
Elévation

Echelle=1/50



Coupe A-A

Echelle=1/25



	Barre		Lg	Forme
1	6HA25		570	570
2	6HA25		565	565
3	6HA16		250	250
* 4	6HA10		181	10 15 135° 165
* 5	6HA10		181	10 15 135° 165
* 6	6HA12		160	19 135° 13 140
* 7	6HA10		136	15 135° 10 120
8	6HA8		550	550
9	1HA8		550	550
* 10	6HA14		229	23 135° 16 205
* 11	6HA14		229	23 135° 16 205
12	6HA10		136	10 15 135° 120
13	23HA10		249	70 50
14	92HA10		162	70

Barre	Lg/Poids
HA8	38.5/15.2
HA10	244.3/150.7
HA12	9.6/8.5
HA14	27.5/33.2
HA16	15.0/23.7
HA25	68.1/262.3

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-43-	Béton=2.44 m3 Acier=226.4 kg d=92.9 kg/m3 Fi=11.3 mm Cof=6.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

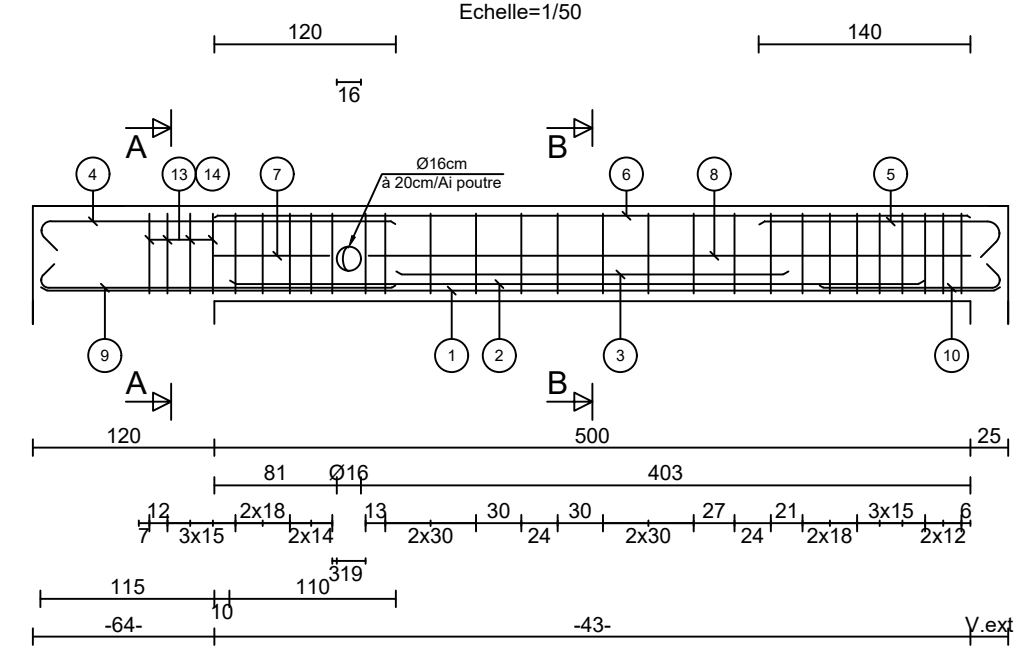
Section : 60 x 63ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

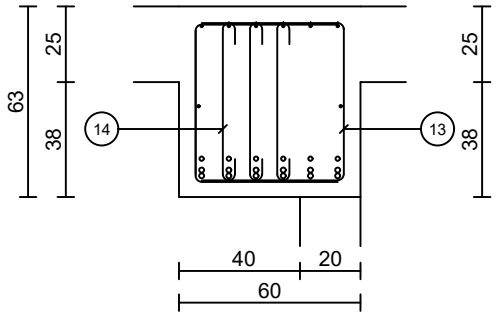
* Aciers non soudés

Béton C25/30

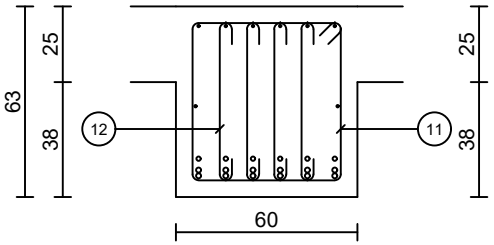
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre		Lg	Forme
1	6HA16	635		635
2	6HA16	460		460
3	6HA14	260		260
* 4	6HA12	255		16 / 13 / 135° / 235
* 5	6HA14	184		23 / 135° / 16 / 160
6	6HA8	500		500
7	2HA8	76		76
8	2HA8	398		398
9	6HA10	251		16 / 135° / 10 / 235
10	6HA10	136		10 / 15 / 135° / 120
11	24HA8	215		53 / 50
12	96HA8	71		53
* 13	4x 2U HA8	153		53 / 50
* 14	4x 3HA8	71		53

Barre	Lg/Poids
HA8	158.8/62.7
HA10	23.2/14.3
HA12	15.3/13.6
HA14	26.6/32.2
HA16	65.7/103.7

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-44- & -C.10-	Béton=4.85 m3 Acier=625.0 kg d=131.8 kg/m3 Fi=11.8 mm Cof=11.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

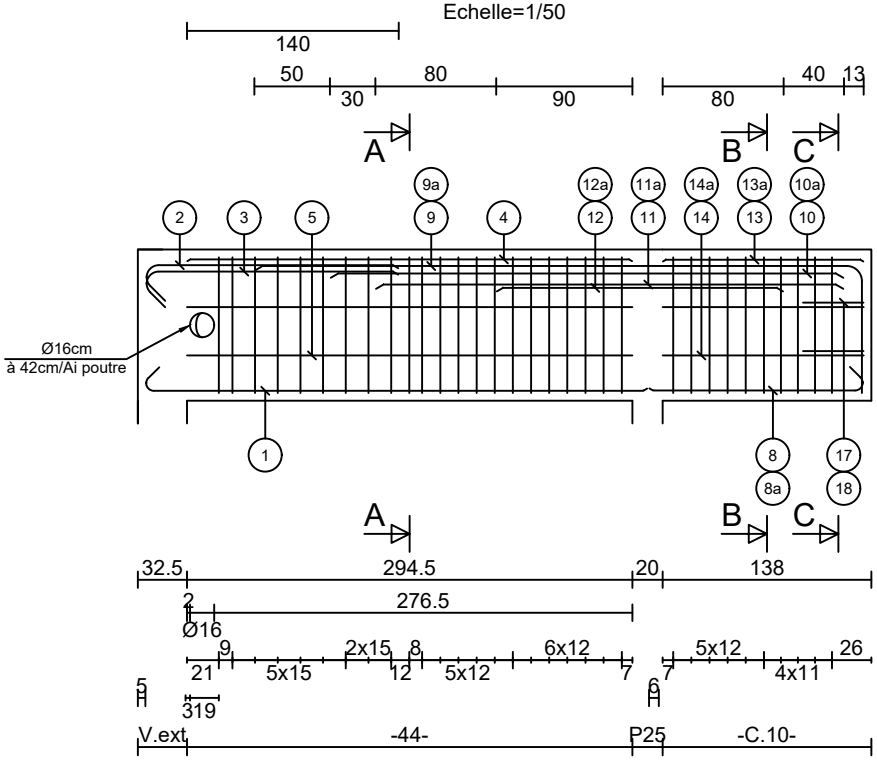
Section : 100 x 100ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

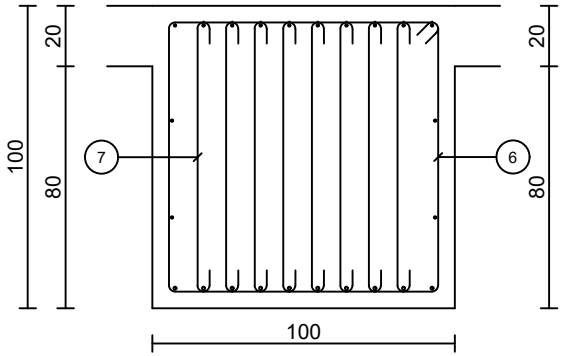
* Aciers non soudés

Béton C40/50

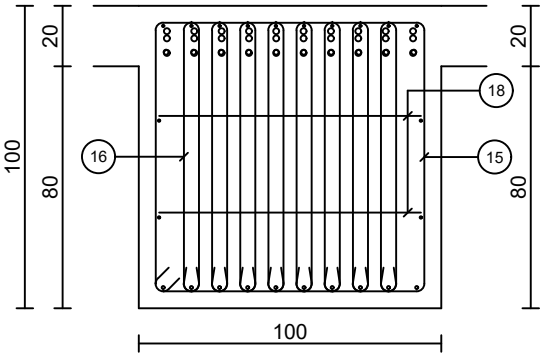
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre		Lg	Forme
14		2HA8	133	133
14a		2HA8	87	87
15		7HA10	369	90 / 90
16		65HA10	202	90
15a		3HA10	319	90 / 65
16a		15HA10	202	90
*	17	2HA8	164	40 / 88 / 40
*	18	2HA8	137	40 / 61 / 40

	Barre		Lg	Forme
1		10HA10	348	16 / 135° / 10 / 332
2 *		10HA14	191	23 / 16 / 135° / 167
3 *		10HA14	191	23 / 16 / 135° / 167
4		10HA8	294	294
5		4HA8	295	295
6		22HA8	369	90 / 90
7		176HA8	108	90
8		7HA10	158	15 / 10 / 135° / 142
8a		3HA10	112	15 / 10 / 135° / 96
*	9	7HA20	482	85 / 90° / 20 / 403
*	9a	3HA20	436	85 / 90° / 20 / 357
*	10	7HA20	340	340
*	10a	3HA20	294	294
*	11	7HA20	310	310
*	11a	3HA20	264	264
*	12	7HA16	190	190
*	12a	3HA16	144	144
	13	7HA8	133	133
	13a	3HA8	87	87

Barre	Lg/Poids
HA8	328.8/129.9
HA10	246.2/151.9
HA14	38.2/46.1
HA16	17.6/27.8
HA20	109.1/268.9

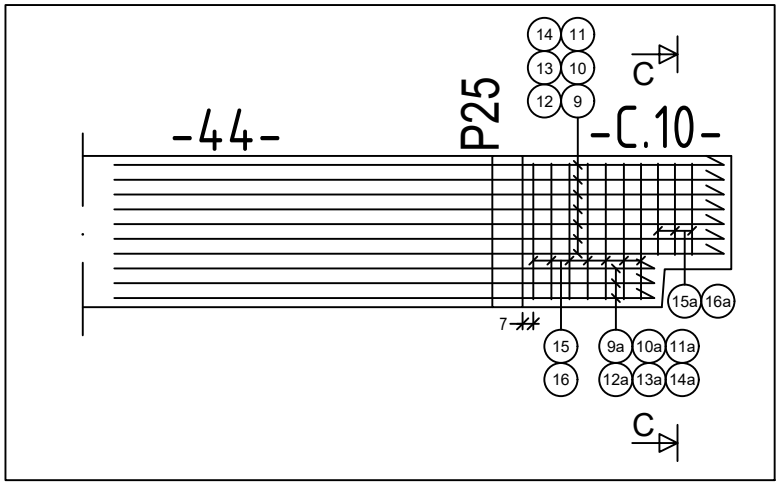
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-44- & -C.10-	Béton=4.85 m3 Acier=625.0 kg d=131.8 kg/m3 Fi=11.8 mm Cof=11.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2
Section : 100 x 100ht				
fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

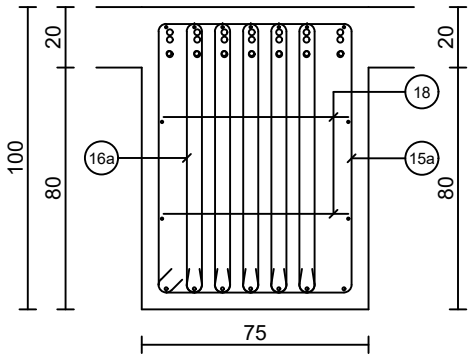
* Aciers non soudés

Béton
C40/50

VEP - Aciers sur about console
Echelle=1/50



Coupe C-C
Echelle=1/25



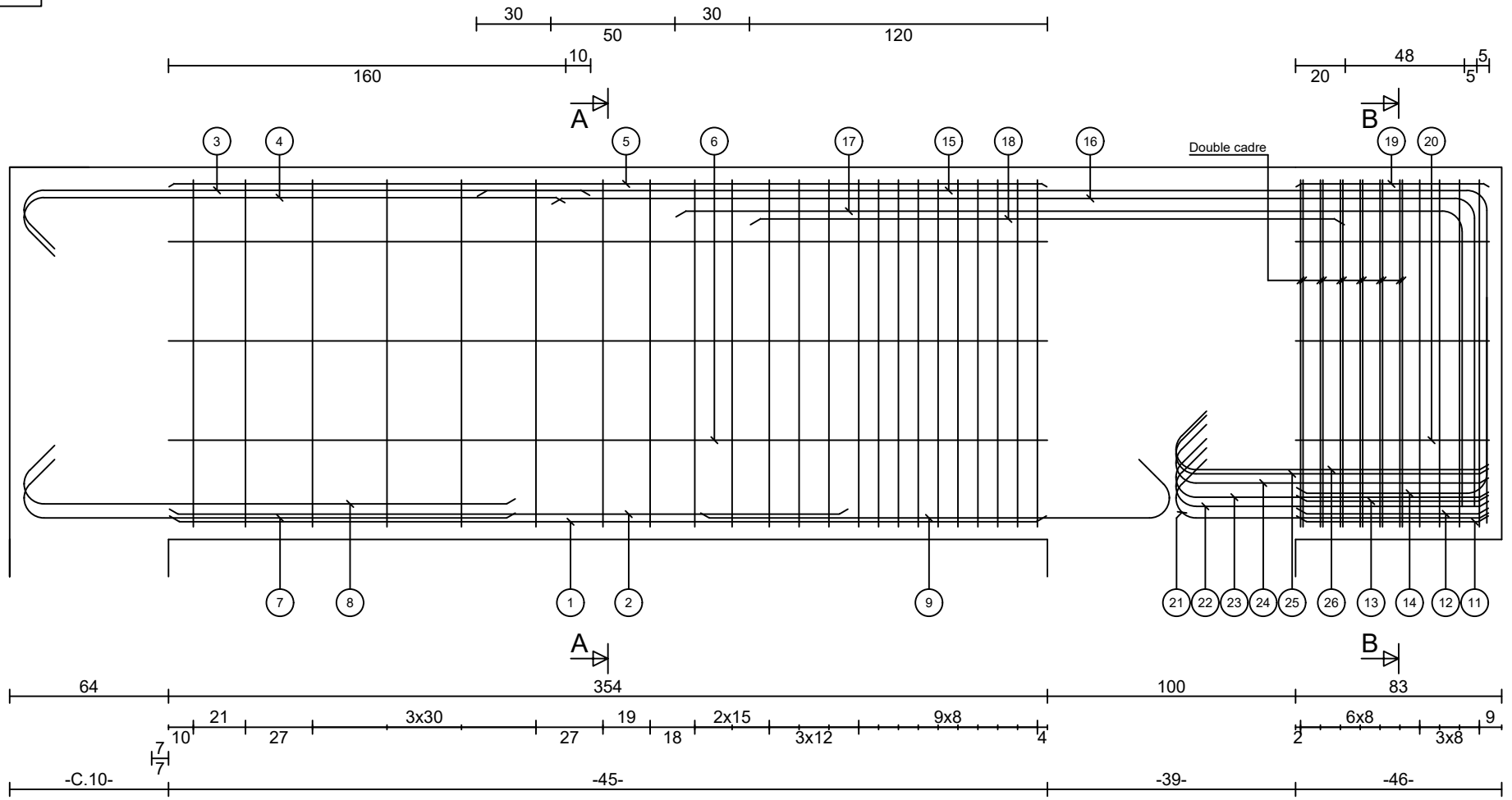
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-45- & -46-	Béton=1.80 m3 Acier=221.9 kg d=123.1 kg/m3 Fi=12.0 mm Cof=5.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=4.5 cm	1 2
Section : 20 x 150ht				
fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

* Aciers non soudés

Béton
C40/50

Elévation
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-45- & -46-	Béton=1.80 m3 Acier=221.9 kg d=123.1 kg/m3 Fi=12.0 mm Cof=5.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=4.5 cm	2/2

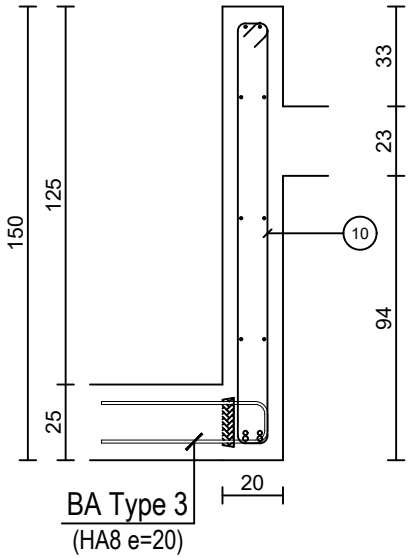
Section : 20 x 150ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

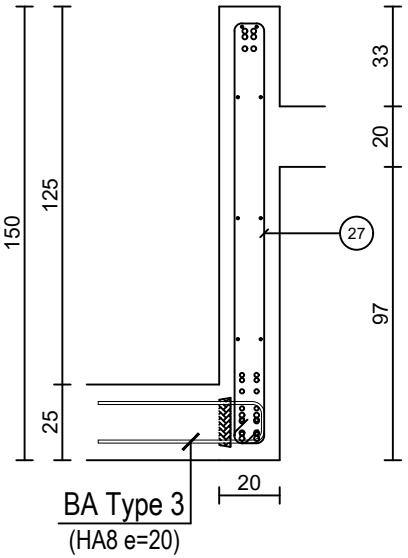
* Aciers non soudés

Béton C40/50

Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



		Barre	Lg	Forme
	1	2HA16	354	354
	2	2HA14	274	274
*	3	2HA14	253	16 ⌀ 23 135° 229
*	4	2HA14	243	16 ⌀ 23 135° 219
	5	2HA8	354	354
	6	6HA8	354	354
*	7	2HA14	223	23 135° ⌀ 16 199
*	8	2HA14	223	23 135° ⌀ 16 199
*	9	2HA14	214	16 ⌀ 23 135° 190
	10	23HA10	311	140 11
	11	2HA16	78	78
	12	2HA16	78	78
	13	2HA16	78	78
	14	2HA16	153	16 ⌀ 80 90° 78
*	15	2HA16	538	135 90° ⌀ 16 408
*	16	2HA16	493	125 90° ⌀ 16 373
*	17	2HA16	433	120 90° ⌀ 16 318
*	18	2HA16	240	240

		Barre	Lg	Forme
	19	2HA8	78	78
	20	6HA8	78	78
*	21	2HA14	151	23 135° ⌀ 16 127
*	22	2HA14	151	23 135° ⌀ 16 127
*	23	2HA14	151	23 135° ⌀ 16 127
*	24	2HA14	151	23 135° ⌀ 16 127
*	25	2HA14	151	23 135° ⌀ 16 127
*	26	2HA14	151	23 135° ⌀ 16 127
	27	16HA10	311	140 11

Barre	Lg/Poids
HA8 HA10	34.6/13.7 121.2/74.8

Barre	Lg/Poids
HA14 HA16	46.7/56.4 48.9/77.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-47-	Béton=4.91 m3 Acier=519.9 kg d=105.8 kg/m3 Fi=10.7 mm Cof=10.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

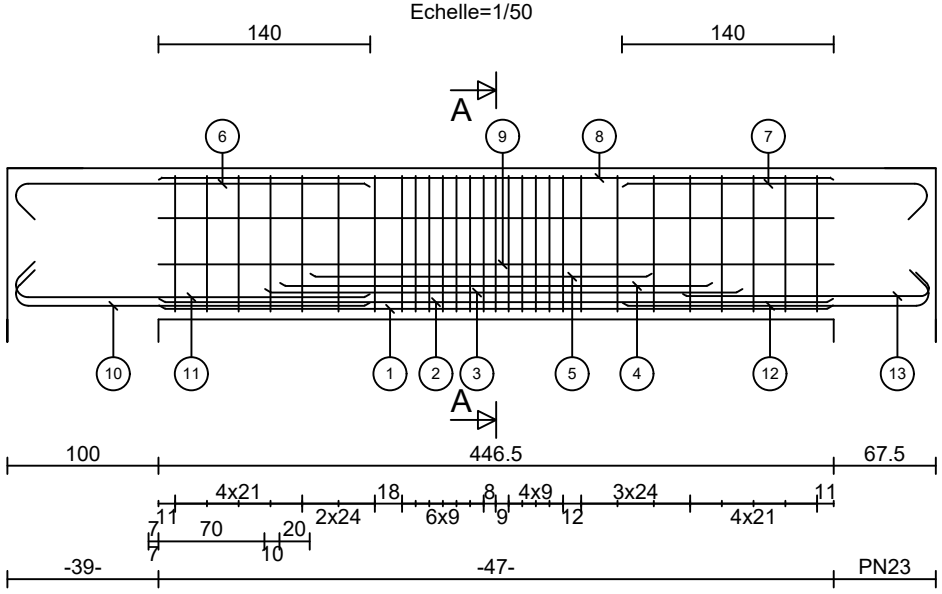
Section : 80 x 100ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

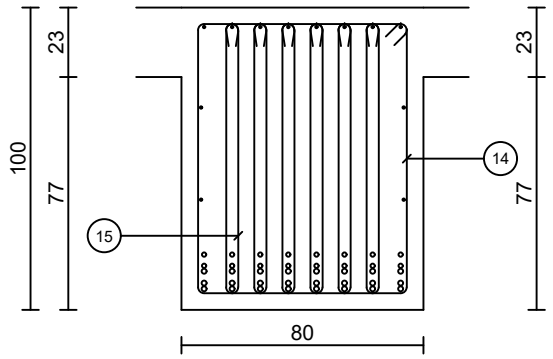
* Aciers non soudés

Béton C25/30

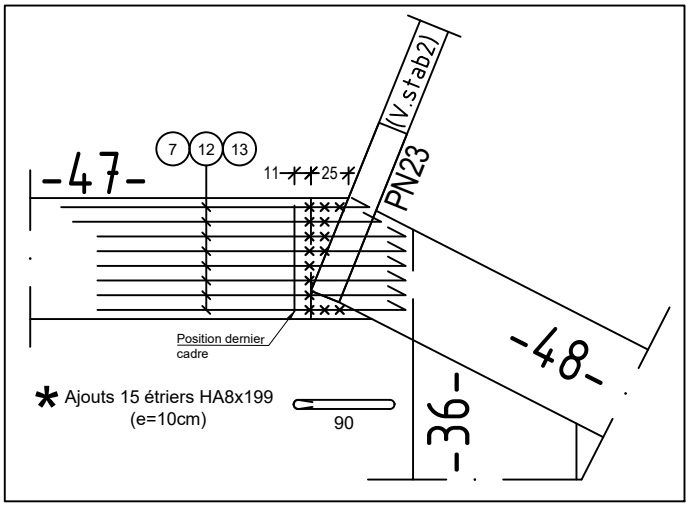
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



	Barre		Lg	Forme
1	8HA16		447	447
2	8HA16		447	447
3	8HA16		316	316
4	8HA14		286	286
5	8HA14		226	226
* 6	8HA14		259	16 ⌀ 23, 135°, 235
* 7	8HA14		226	135° 23 ⌀ 16, 202
8	8HA8		447	447
9	4HA8		447	447
* 10	8HA14		259	135° 23 ⌀ 16, 235
* 11	8HA14		259	135° 23 ⌀ 16, 235
* 12	8HA14		228	16 ⌀ 23, 135°, 204
* 13	8HA10		180	10 ⌀ 15, 135°, 164
14	28HA8		329	90, 70
15	183HA8		199	90

Barre	Lg/Poids
HA8	480.8/189.9
HA10	14.4/8.9
HA14	139.5/168.5
HA16	96.8/152.7

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-48-	Béton=4.41 m3 Acier=990.9 kg d=224.8 kg/m3 Fi=12.1 mm Cof=13.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

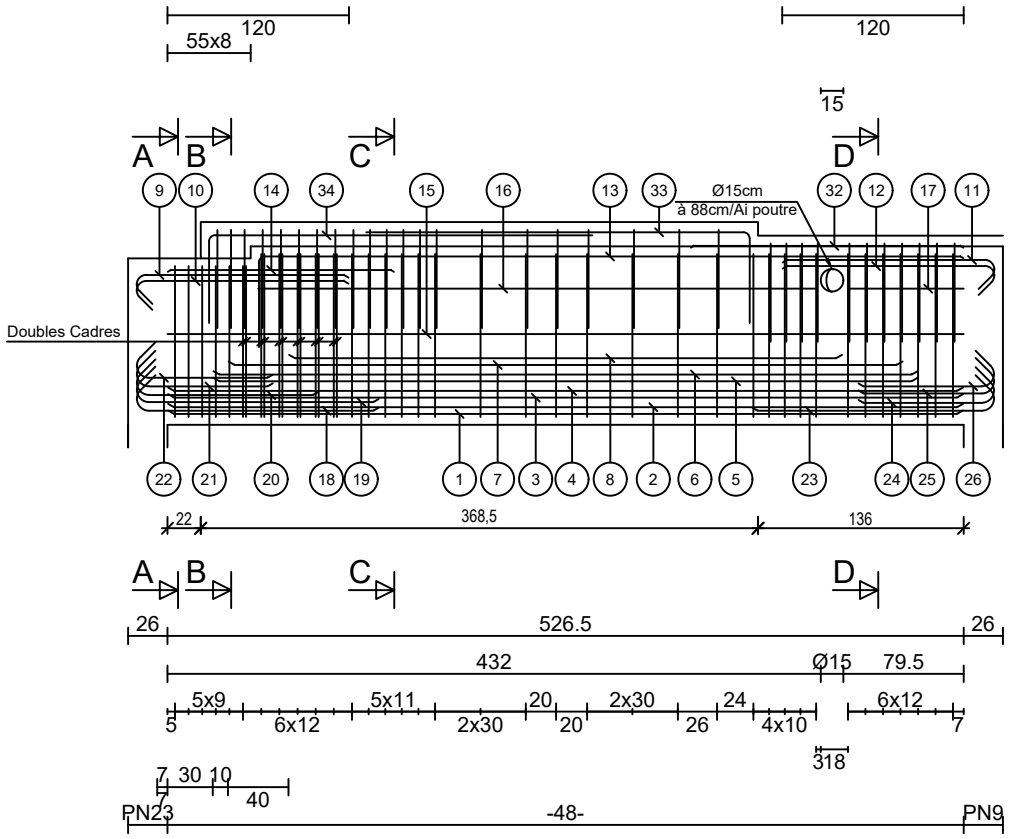
Section : 65 x 110/118/125/134ht

fck= 50 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C50/60

Elévation
Echelle=1/50



	Barre		Lg	Forme
	1	7HA16	527	527
	2	7HA16	527	527
	3	7HA16	527	527
	4	7HA16	527	527
	5	7HA16	467	467
	6	7HA16	467	467
	7	7HA16	447	447
	8	7HA16	367	367
*	9	7HA12	161	19 / 13 / 135° / 141
*	10	7HA12	161	19 / 13 / 135° / 141
*	11	7HA12	161	19 / 135° / 13 / 141
*	12	7HA12	161	19 / 135° / 13 / 141
	13	7HA8	524	8 / 60 / 90° / 467
	14	7HA8	150	150
	15	2HA8	527	527
	16	2HA8	369	369
	17	2HA8	76	76
*	18	7HA14	185	23 / 16 / 135° / 161
*	19	7HA14	185	23 / 16 / 135° / 161

	Barre		Lg	Forme
*	20	7HA14	145	23 / 16 / 135° / 121
*	21	7HA14	115	23 / 16 / 135° / 91
*	22	7HA14	115	23 / 16 / 135° / 91
*	23	7HA14	185	23 / 16 / 135° / 161
*	24	7HA14	115	23 / 16 / 135° / 91
*	25	7HA14	115	23 / 16 / 135° / 91
*	26	7HA14	115	23 / 16 / 135° / 91
	27	7HA10	319	100 / 55
	28	35HA10	222	100
	29	35HA10	335	108 / 55
	30	175HA10	238	108
*	31	32x 2HA10 (à plier si nécessaire)	185	55 / 65
*	32	2HA8 (à plier si nécessaire)	180	180
*	33	2HA8 (à plier si nécessaire)	318	8 / 60 / 90° / 258
*	34	2HA8 (à plier si nécessaire)	318	60 / 90° / 8 / 258

Barre	Lg/Poids	Barre	Lg/Poids
HA8 HA10 HA12	66.6/26.3 634.5/391.5 45.0/40.0	HA14 HA16	89.2/107.8 269.6/425.5

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-48-	Béton=4.41 m3 Acier=990.9 kg d=224.8 kg/m3 Fi=12.1 mm Cof=13.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

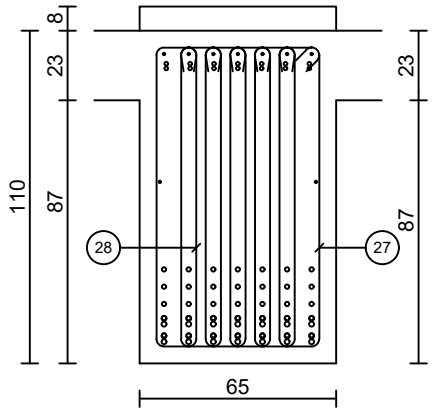
Section : 65 x 110/118/125/134ht

fck= 50 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

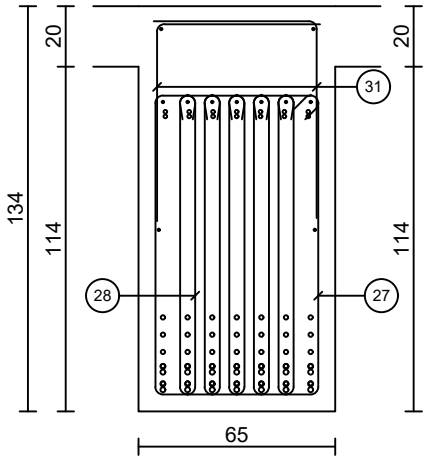
* Aciers non soudés

Béton
C50/60

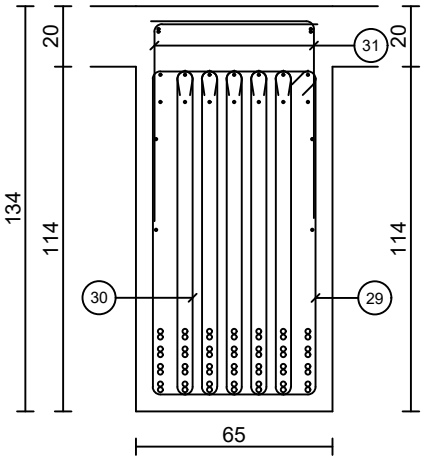
Coupe A-A
Echelle=1/25



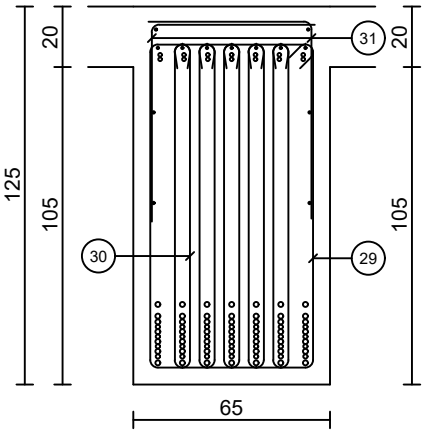
Coupe B-B
Echelle=1/25



Coupe C-C
Echelle=1/25



Coupe D-D
Echelle=1/25



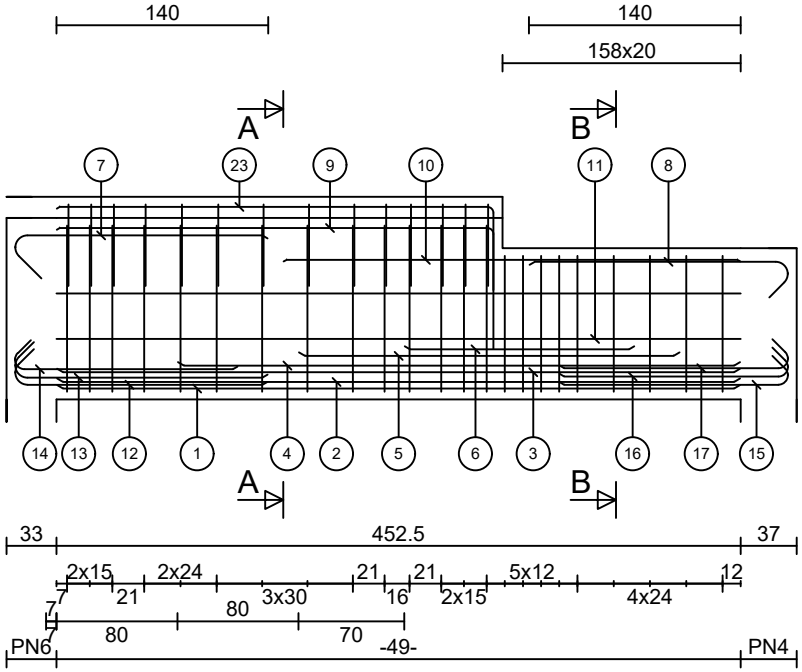
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-49-	Béton=4.76 m3 Acier=659.8 kg d=138.5 kg/m3 Fi=11.9 mm Cof=12.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2
Section : 80 x 100/120/134ht				
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

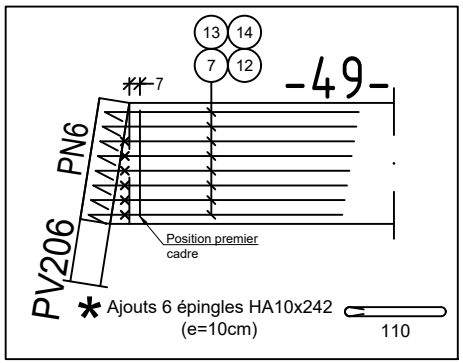
* Aciers non soudés

Béton
C25/30

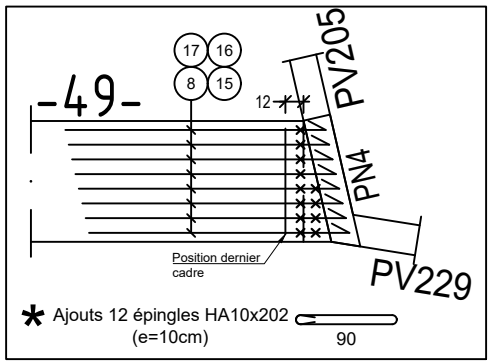
Elévation
Echelle=1/50



VEP - Aciers sur appui gauche
Echelle=1/50



VEP - Aciers sur appui droite
Echelle=1/50



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-49-	Béton=4.76 m3 Acier=659.8 kg d=138.5 kg/m3 Fi=11.9 mm Cof=12.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

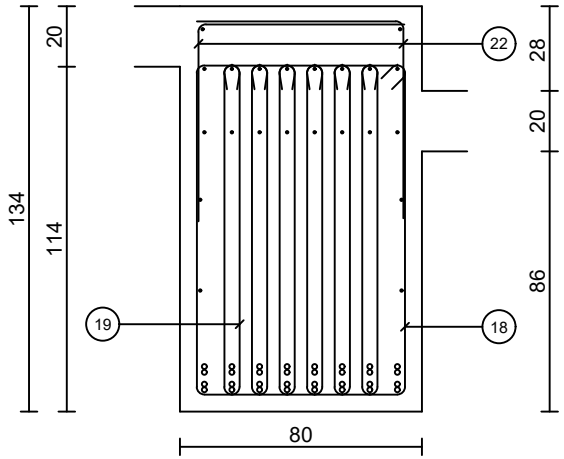
Section : 80 x 100/120/134ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

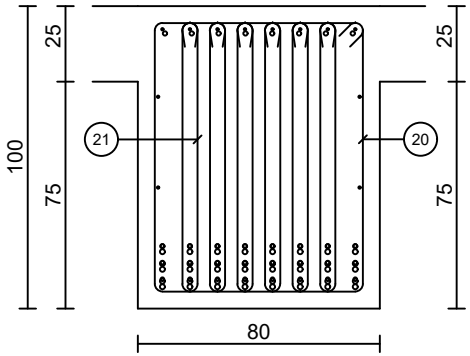
* Aciers non soudés

Béton
C25/30

Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre	Lg	Forme
1	8HA16	453	453
2	8HA16	452	452
3	8HA16	452	452
4	8HA16	372	372
5	8HA16	252	252
6	8HA14	152	152
* 7	8HA14	199	30 / 16 / 135° / 168
* 8	8HA14	196	23 / 135° / 16 / 172
9	8HA8	367	80 / 90° / ⌀8 / 290
10	8HA8	303	303
11	4HA8	453	453
* 12	8HA14	192	23 / 135° / 16 / 168
* 13	8HA14	192	23 / 135° / 16 / 168
* 14	8HA12	168	19 / 135° / 13 / 148
* 15	8HA12	172	19 / 13 / 152 / 135°
* 16	8HA12	172	19 / 13 / 152 / 135°
* 17	8HA12	172	19 / 13 / 152 / 135°
18	14HA10	369	110 / 70

	Barre	Lg	Forme
19	90HA10	242	110
20	9HA10	329	90 / 70
21	66HA10	202	90
22 *	14x 2HA10 (à plier si nécessaire)	200	70 / 65
23 *	2HA8 (à plier si nécessaire)	344	55 / 90° / ⌀8 / 289

Barre	Lg/Poids	Barre	Lg/Poids
HA8 HA10 HA12	71.7/28.3 393.5/242.8 54.6/48.5	HA14 HA16	74.5/90.0 158.6/250.3

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-50-	Béton=1.47 m3 Acier=205.0 kg d=139.4 kg/m3 Fi=11.7 mm Cof=3.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 60 x 82ht

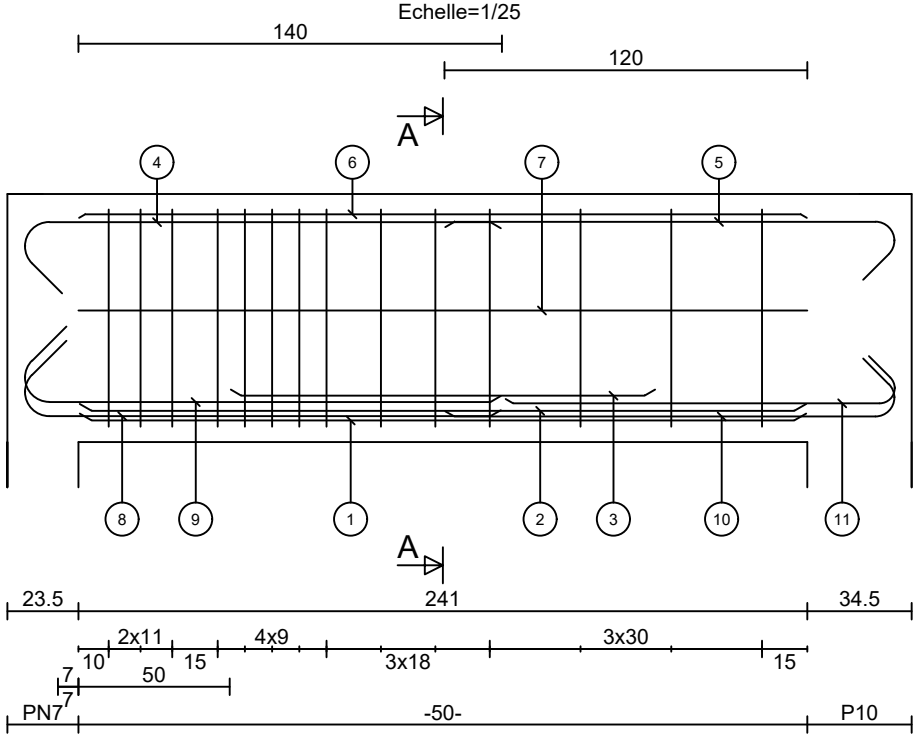
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

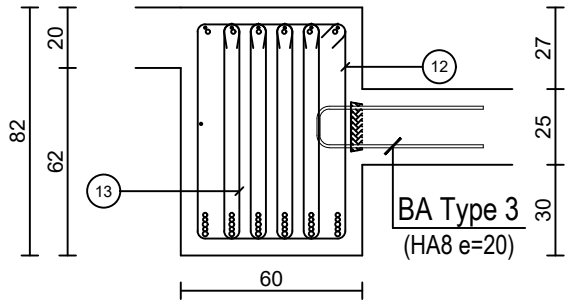
Elévation

Echelle=1/25



Coupe A-A

Echelle=1/25



	Barre		Lg	Forme
	1	6HA16	241	241
	2	6HA16	241	241
	3	6HA14	141	141
*	4	6HA14	182	23 / 16 / 135° / 158
*	5	6HA12	169	19 / 135° / 13 / 150
*	6	6HA8	241	241
	7	1HA8	241	241
*	8	6HA14	184	25 / 135° / 16 / 159
*	9	6HA14	184	25 / 135° / 16 / 159
*	10	6HA12	169	19 / 13 / 135° / 150
	11	6HA10	146	16 / 10 / 135° / 130
	12	14HA10	253	72 / 50
	13	56HA10	166	72

Barre	Lg/Poids
HA8	16.9/6.7
HA10	137.1/84.6
HA12	20.3/18.0
HA14	41.5/50.2
HA16	28.9/45.6

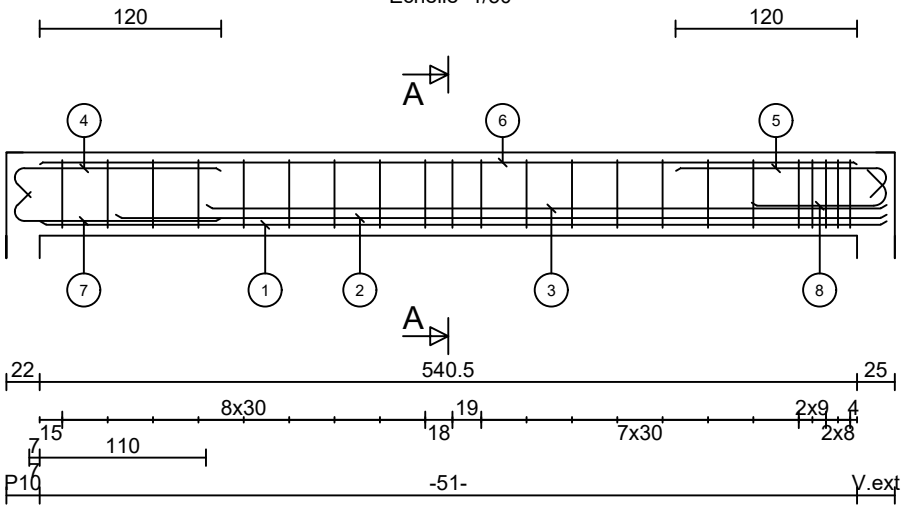
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-51-	Béton=1.94 m3 Acier=278.1 kg d=143.4 kg/m3 Fi=12.2 mm Cof=6.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1
Section : 60 x 55ht				
fck= 30 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

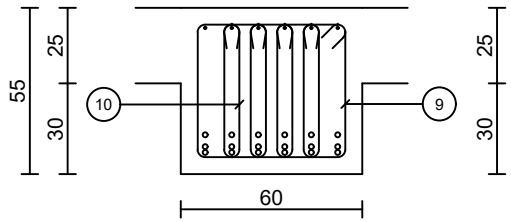
* Aciers non soudés

Béton
C30/37

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	6HA16	560	560
2	6HA16	511	511
3	6HA16	451	451
* 4	6HA12	157	19, 13, 135°, 137
* 5	6HA12	160	19, 135°, 13, 140
6	6HA8	540	540
* 7	6HA12	157	19, 135°, 13, 137
8	6HA14	114	23, 16, 135°, 90
9	22HA10	199	45, 50
10	88HA10	112	45

Barre	Lg/Poids
HA8	32.4/12.8
HA10	142.2/87.8
HA12	28.4/25.2
HA14	6.8/8.3
HA16	91.3/144.1

Structuriste

PIERREFITTE SUR SEINE **BAT 1 - PH SS-1**	-52-	Béton=6.13 m3 Acier=452.5 kg d=73.8 kg/m3 Fi=9.8 mm Cof=16.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

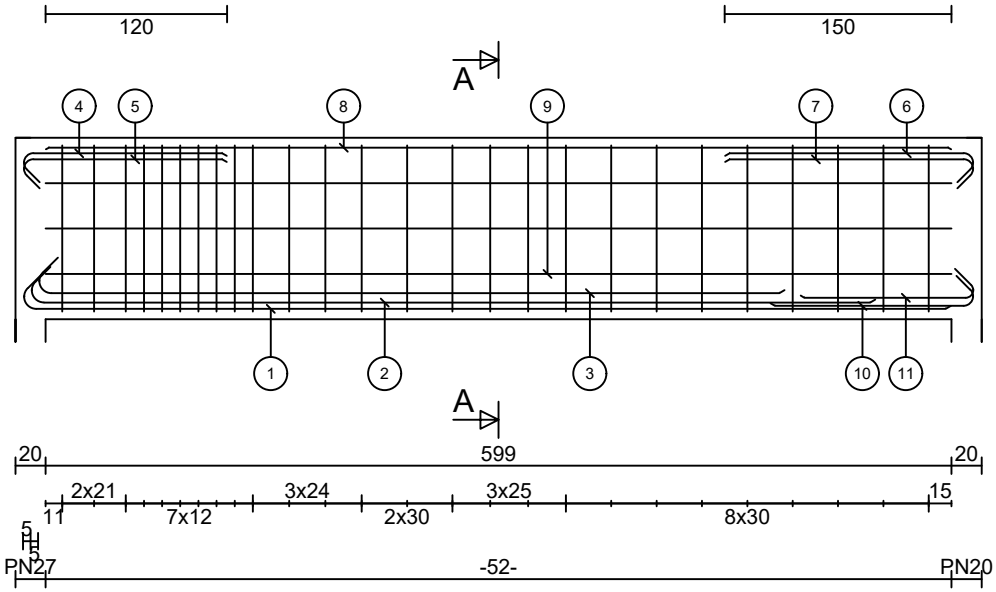
Section : 80 x 120ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

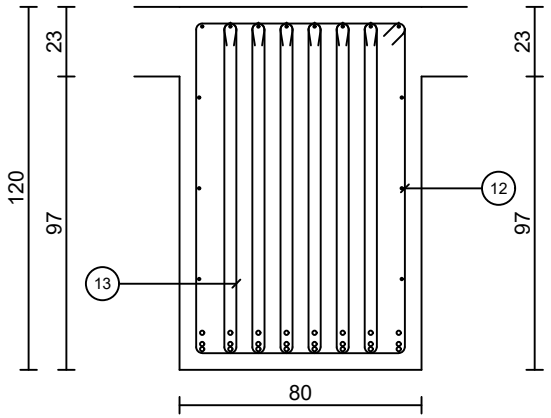
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	8HA14	638	23 16 135° 614
2	8HA14	583	23 16 135° 559
3	8HA14	518	23 16 135° 494
* 4	8HA12	155	19 13 135° 135
* 5	8HA12	155	19 13 135° 135
* 6	8HA12	185	19 13 135° 165
* 7	8HA12	185	19 13 135° 165
8	8HA8	599	599
9	6HA8	599	599
* 10	8HA12	156	20 13 135° 135
* 11	8HA10	136	20 10 135° 115
12	26HA8	369	110 70
13	156HA8	239	110

Barre	Lg/Poids
HA8	553.3/218.6
HA10	10.9/6.7
HA12	66.8/59.3
HA14	139.1/168.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-53-	Béton=4.61 m3 Acier=384.0 kg d=83.3 kg/m3 Fi=9.6 mm Cof=10.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

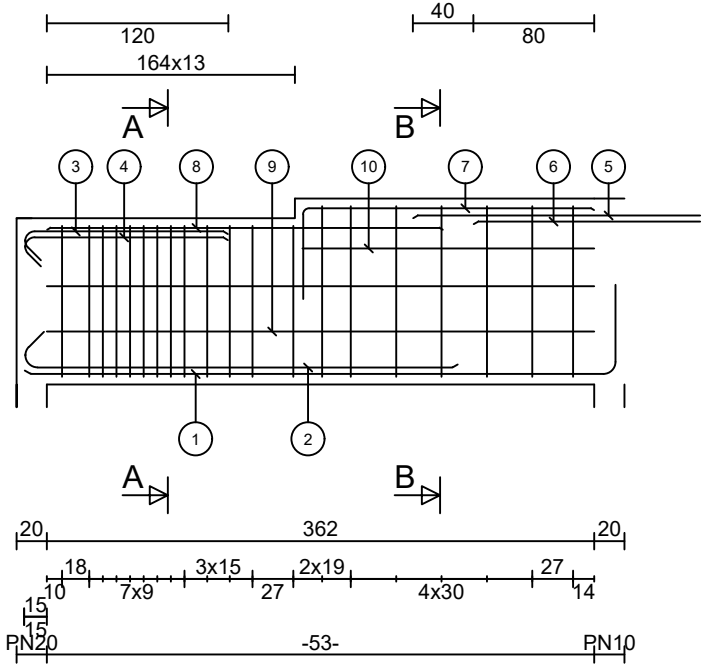
Section : 100 x 123ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

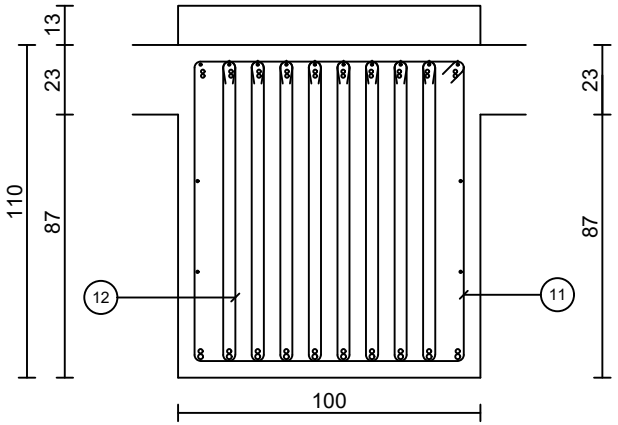
* Aciers non soudés

Béton C40/50

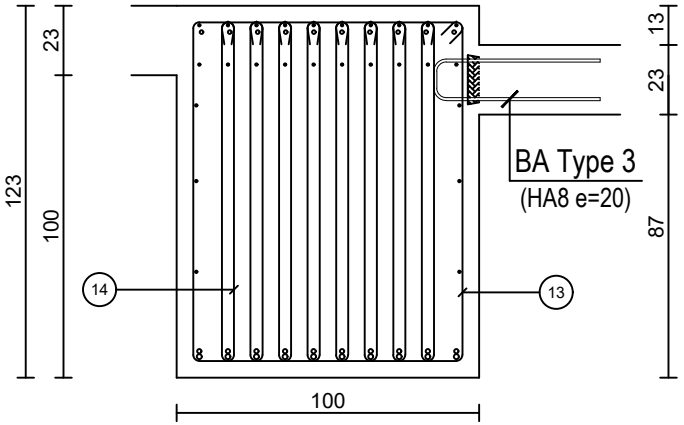
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre		Lg	Forme
	1	10HA16	447	16 60 90° 392
	2	10HA14	311	23 16 135° 287
*	3	10HA12	155	19 13 135° 135
*	4	10HA12	155	19 13 135° 135
*	5	10HA12	330	330
*	6	10HA12	180	180
	7	10HA8	251	8 60 90° 193
	8	10HA8	262	262
	9	4HA8	362	362
	10	2HA8	193	193
	11	13HA8	389	100 90
	12	104HA8	219	100
	13	7HA8	415	113 90
	14	56HA8	245	113

Barre	Lg/Poids
HA8	514.9/203.4
HA12	81.9/72.8
HA14	31.1/37.6
HA16	44.7/70.5

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-54- & -C.3-	Béton=7.38 m3 Acier=545.2 kg d=73.9 kg/m3 Fi=9.9 mm Cof=16.6 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

Section : 100 x 113ht

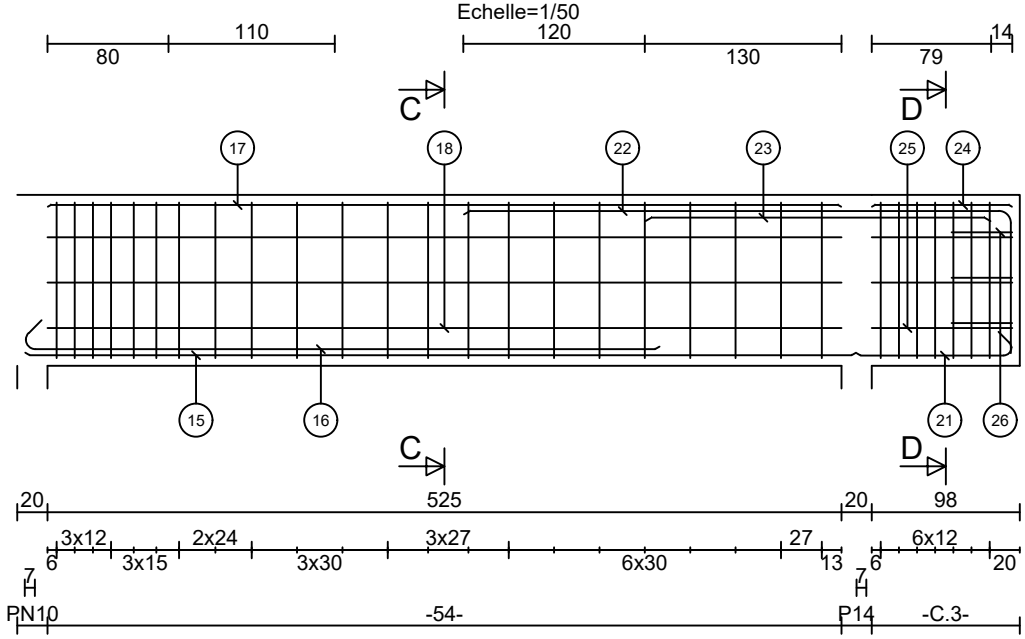
fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C40/50

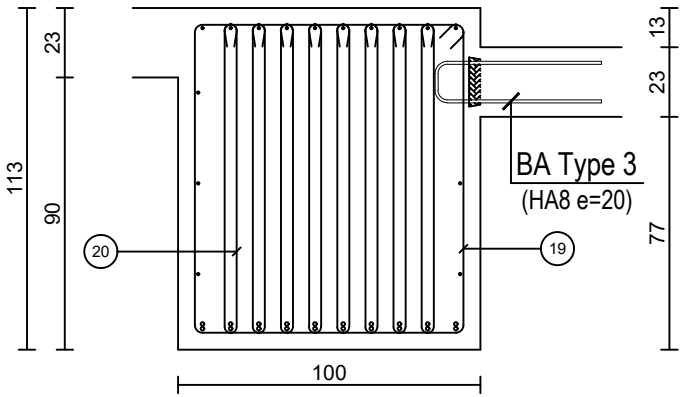
Elévation

Echelle=1/50



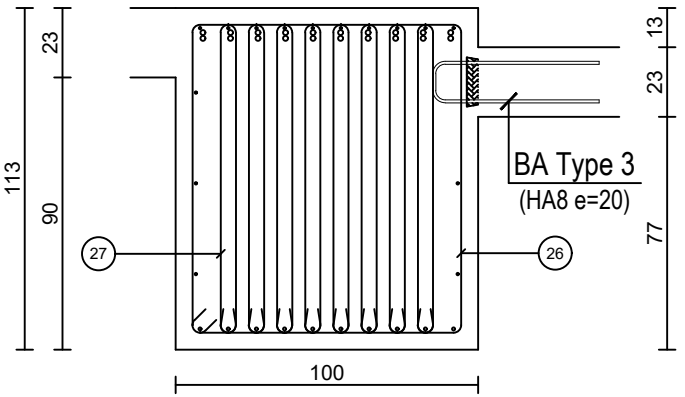
Coupe C-C

Echelle=1/25



Coupe D-D

Echelle=1/25



	Barre		Lg	Forme
15	10HA12		550	550
16	10HA12		440	19, 135°, 13, 420
17	10HA8		525	525
18	5HA8		525	525
19	22HA10		395	103, 90
20	176HA8		225	103
21	10HA10		119	15, 10, 103, 135°
22	10HA16		453	95, 90°, 16, 363
* 23	10HA16		229	229
* 24	10HA8		93	93
25	5HA8		93	93
26	7HA10		395	103, 90
27	56HA10		228	103
* 28	3HA8		164	40, 88, 40

Barre	Lg/Poids
HA8	489.5/193.4
HA10	254.0/156.7
HA12	99.0/87.9
HA16	68.2/107.6

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-55-	Béton=2.06 m3 Acier=166.6 kg d=81.0 kg/m3 Fi=10.7 mm Cof=6.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

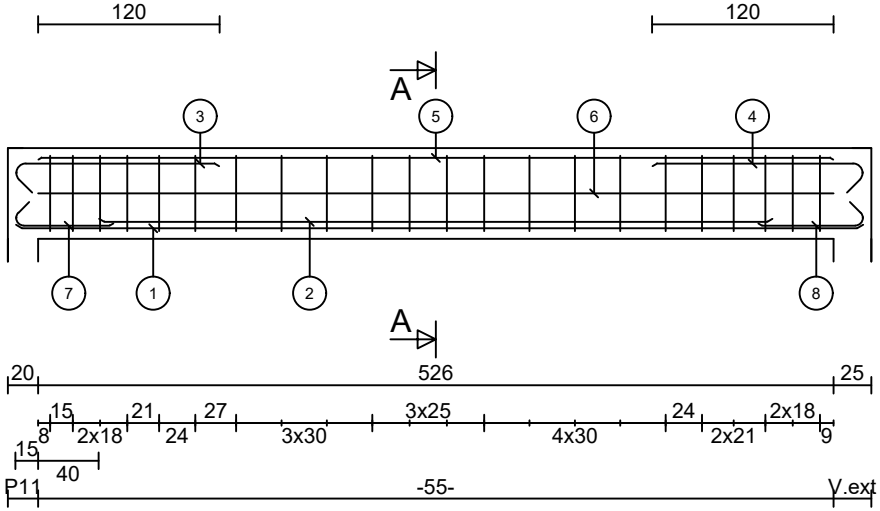
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

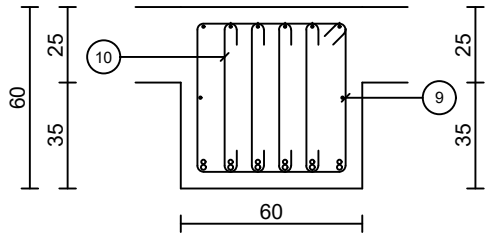
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	6HA16	561	561
2	6HA14	446	446
* 3	6HA12	155	19 / 13 / 135 / 135°
* 4	6HA12	160	19 / 135° / 13 / 140
5	6HA8	526	526
6	2HA8	526	526
7	6HA10	81	16 / 135° / 10 / 65
8	6HA10	86	15 / 10 / 135° / 70
9	22HA8	209	50 / 50
10	88HA8	68	50

Barre	Lg/Poids
HA8	147.5/58.3
HA10	10.0/6.2
HA12	18.9/16.8
HA14	26.8/32.3
HA16	33.7/53.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-56-	Béton=1.84 m3 Acier=156.4 kg d=85.0 kg/m3 Fi=10.9 mm Cof=6.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

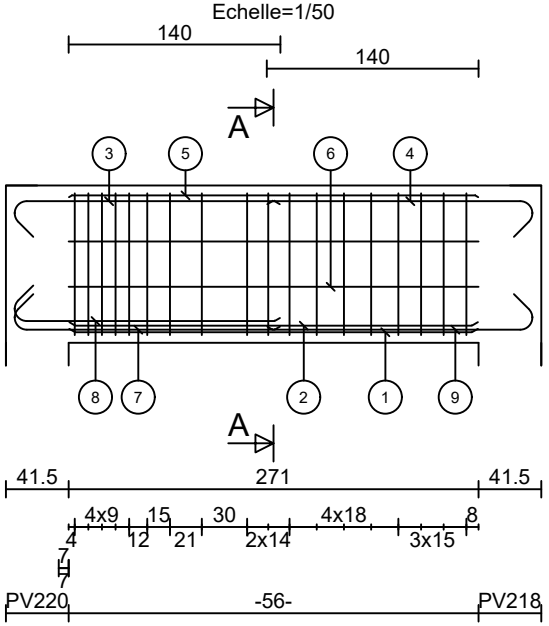
Section : 50 x 104ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

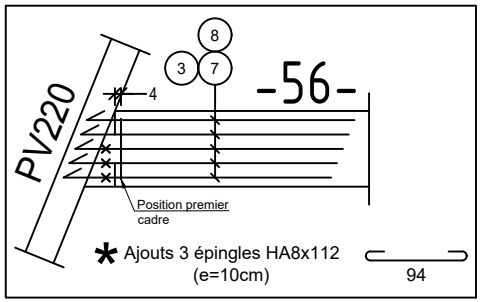
Béton C25/30

Elévation
Echelle=1/50

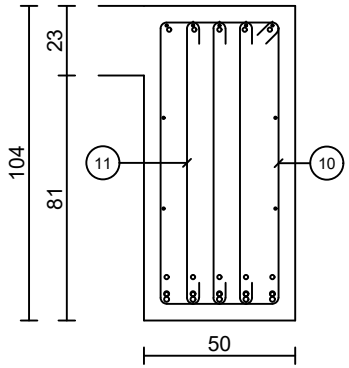


	Barre		Lg	Forme
	1	5HA16	271	271
	2	5HA16	271	271
*	3	5HA14	200	16 Ø 23, 135°, 176
*	4	5HA14	200	23, 135°, 16, 176
	5	5HA8	271	271
	6	4HA8	271	271
*	7	5HA14	200	23, 135°, 16, 177
*	8	5HA14	200	23, 135°, 16, 177
*	9	5HA14	201	16 Ø 23, 135°, 177
	10	18HA8	277	94, 40
	11	62HA8	112	94

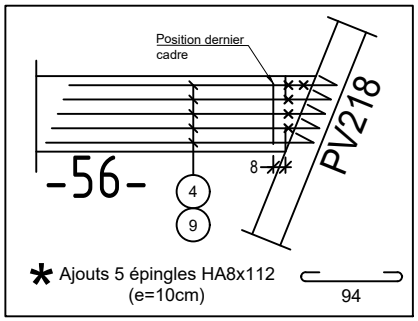
VEP - Aciers sur appui gauche
Echelle=1/50



Coupe A-A
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



Barre	Lg/Poids
HA8	134.5/53.1
HA14	50.1/60.6
HA16	27.1/42.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-57-	Béton=2.89 m3 Acier=341.8 kg d=118.1 kg/m3 Fi=10.5 mm Cof=7.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

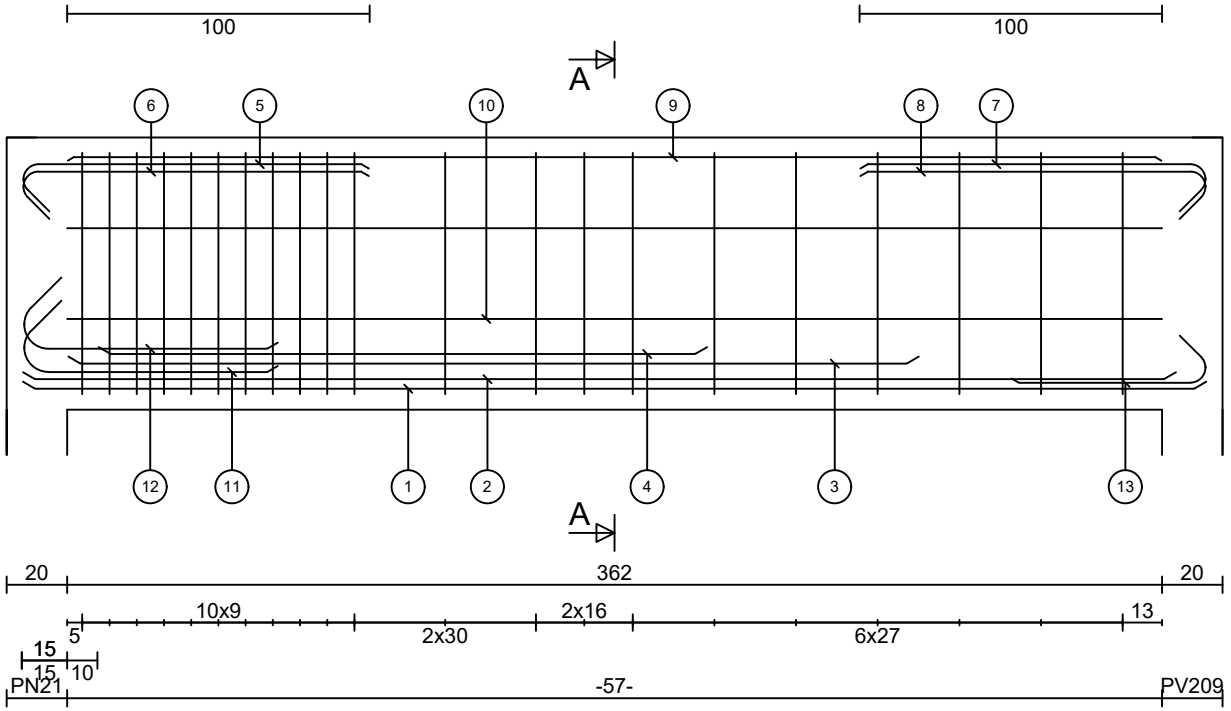
Section : 80 x 90ht

fck= 30 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

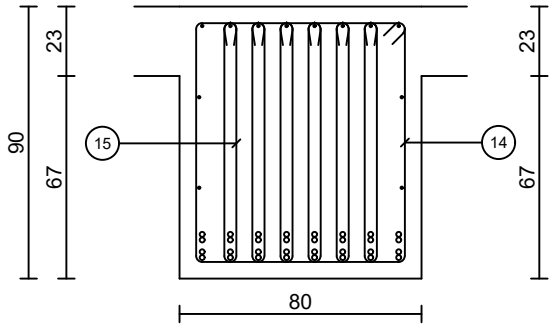
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	8HA16	392	392
2	8HA16	382	382
3	8HA16	282	282
4	8HA16	202	202
5	8HA10	131	15 / 10 / 135° / 115
6	8HA10	131	15 / 10 / 135° / 115
7	8HA10	131	16 / 135° / 10 / 115
8	8HA10	131	16 / 135° / 10 / 115
9	8HA8	362	362
10	4HA8	362	362
11	8HA14	109	23 / 135° / 16 / 85
12	8HA14	109	23 / 135° / 16 / 85
13	8HA10	81	16 / 10 / 135° / 65
14	21HA8	309	80 / 70
15	126HA8	179	80

Barre	Lg/Poids
HA8	334.4/132.1
HA10	48.5/29.9
HA14	17.4/21.1
HA16	100.6/158.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-58- & -C.4-	Béton=5.64 m3 Acier=346.5 kg d=61.5 kg/m3 Fi=9.8 mm Cof=14.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

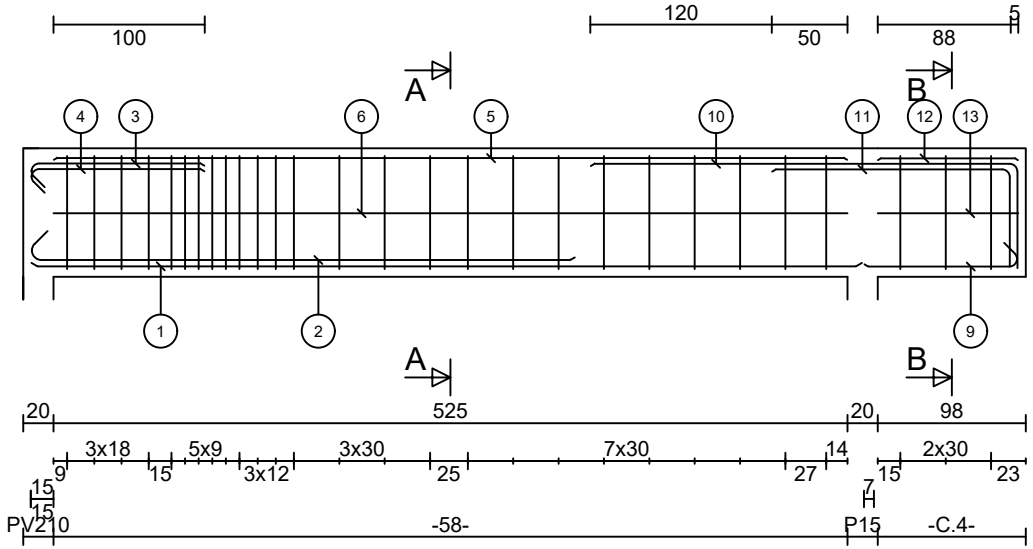
Section : 100 x 85ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

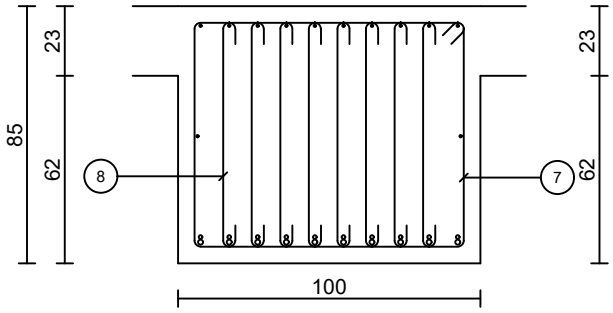
* Aciers non soudés

Béton C25/30

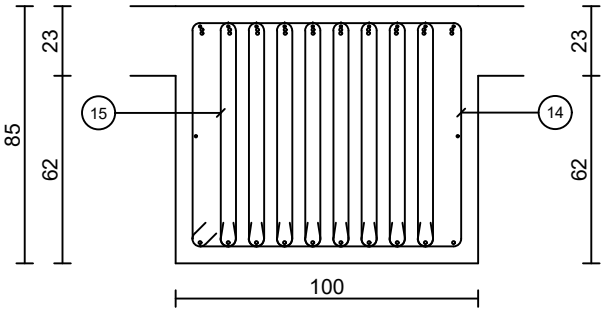
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre	Lg	Forme
1	10HA16	550	550
2	10HA12	380	19 135° 13 360
* 3	10HA10	131	15 10 115 135°
* 4	10HA10	131	15 10 115 135°
5	10HA8	525	525
6	2HA8	525	525
7	25HA8	339	75 90
8	200HA8	93	75
9	10HA10	118	15 10 102 135°
* 10	10HA10	349	70 90° 10 283
* 11	10HA10	219	65 90° 10 158
12	10HA8	93	93
13	2HA8	93	93
14	3HA10	339	75 90
15	24HA10	172	75

Barre	Lg/Poids
HA8	344.0/135.9
HA10	146.3/90.3
HA12	38.0/33.7
HA16	55.0/86.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-59-	Béton=2.06 m3 Acier=164.7 kg d=80.1 kg/m3 Fi=10.7 mm Cof=6.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

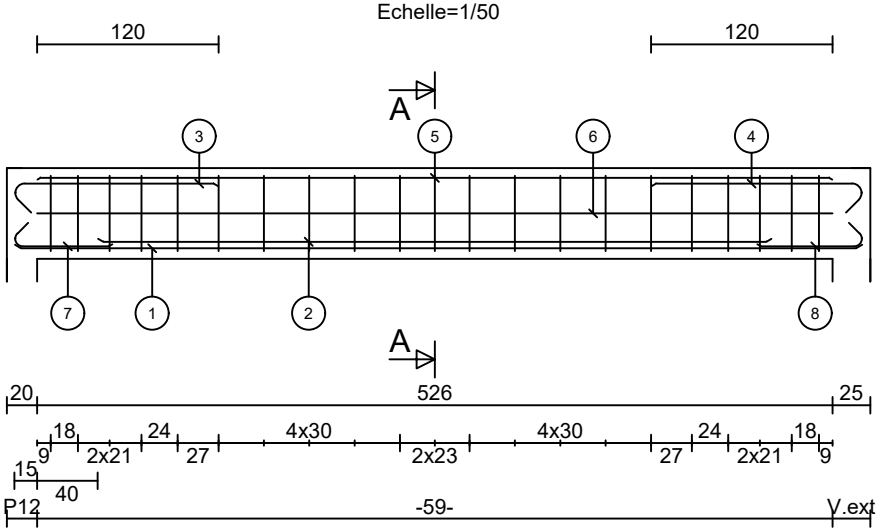
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

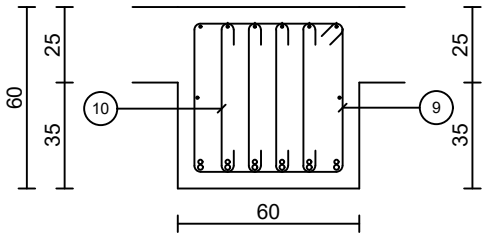
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	6HA16	561	561
2	6HA14	446	446
* 3	6HA12	155	19, 13, 135°, 135
* 4	6HA12	160	19, 135°, 13, 140
5	6HA8	526	526
6	2HA8	526	526
7	6HA10	81	16, 135°, 10, 65
8	6HA10	86	15, 10, 135°, 70
9	21HA8	209	50, 50
10	84HA8	68	50

Barre	Lg/Poids
HA8	142.7/56.4
HA10	10.0/6.2
HA12	18.9/16.8
HA14	26.8/32.3
HA16	33.7/53.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-C.9- & -60-	Béton=3.02 m3 Acier=210.7 kg d=69.7 kg/m3 Fi=9.7 mm Cof=7.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 6

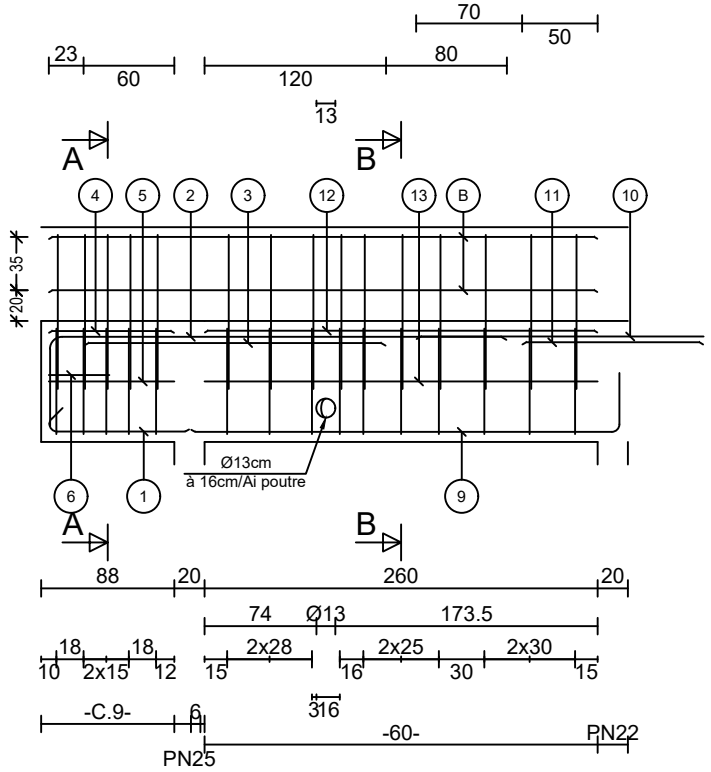
Section : 100 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



	Barre		Lg	Forme
	1	10HA10	109	16, 10, 135°, 93
*	2	10HA14	358	16, 60, 90°, 303
*	3	10HA12	200	200
	4	10HA8	83	83
	5	2HA8	83	83
*	6	1HA8	164	40, 88, 40
	7	5HA10	329	70, 90
	8	40HA8	159	70
	9	10HA10	320	10, 40, 90°, 284
*	10	10HA12	260	260
*	11	10HA10	120	120
	12	10HA8	260	260
	13	2HA8	260	260
	14	10HA8	329	70, 90
	15	80HA8	88	70
*	A	15HA8	218	8, 57, 48, 105
*	B	2x2HA10	363	363

Barre	Lg/Poids
HA8	209.5/82.8
HA10	71.4/44.0
HA12	46.0/40.8
HA14	35.8/43.2

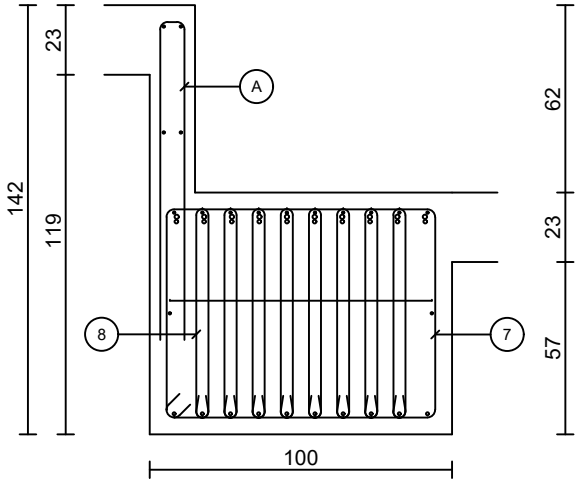
Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-C.9- & -60-	Béton=3.02 m3 Acier=210.7 kg d=69.7 kg/m3 Fi=9.7 mm Cof=7.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 6
Section : 100 x 80ht				
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

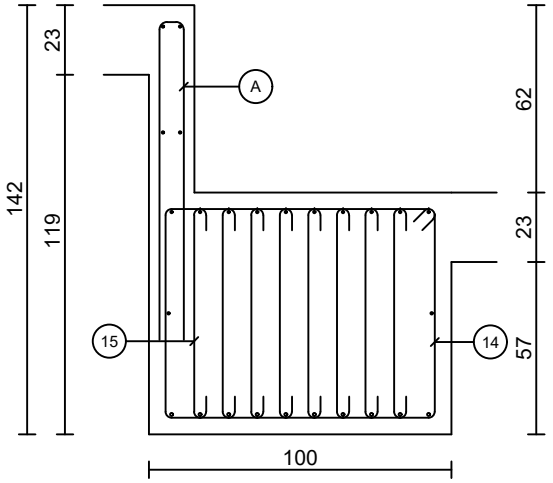
* Aciers non soudés

Béton
C25/30

Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-61-	Béton=3.01 m3 Acier=336.2 kg d=111.5 kg/m3 Fi=9.9 mm Cof=7.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	3 6

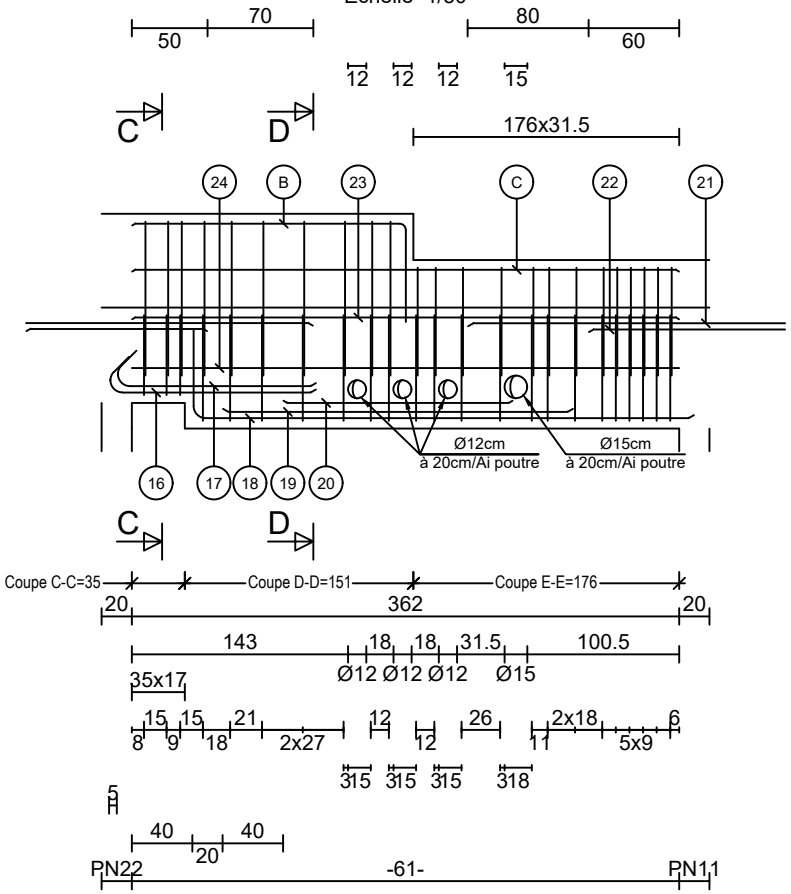
Section : 100 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



	Barre		Lg	Forme
16	10HA14		161	23 ⌀16 135° 137
17	10HA14		156	23 ⌀16 135° 132
18	10HA14		387	60 ⌀16 90° 332
19	10HA14		232	232
* 20	10HA10		152	152
* 21	10HA14		340	340
22	10HA12		140	140
23	10HA8		362	362
24	2HA8		362	362
25	3HA8		295	53 90
26	24HA8		125	53
27	20HA8		329	70 90
28	160HA8		159	70
* A	15HA8		218	8 57 48 105
* B	2HA10		250	186 90° 10 65
* C	2HA10		363	362
* D	13HA8		162	22 25 45 70

Barre	Lg/Poids
HA8	406.0/160.4
HA10	15.2/9.4
HA12	14.0/12.4
HA14	127.6/154.1

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-61-	Béton=3.01 m3 Acier=336.2 kg d=111.5 kg/m3 Fi=9.9 mm Cof=7.7 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	4 6

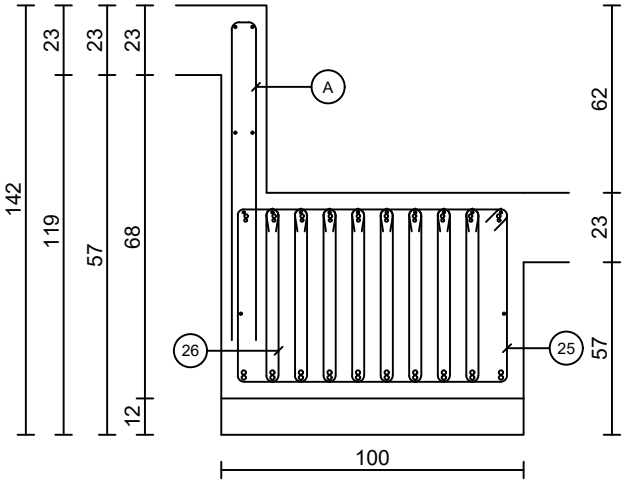
Section : 100 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

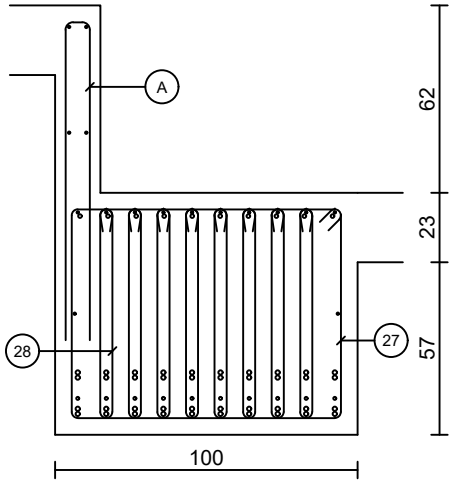
* Aciers non soudés

Béton
C25/30

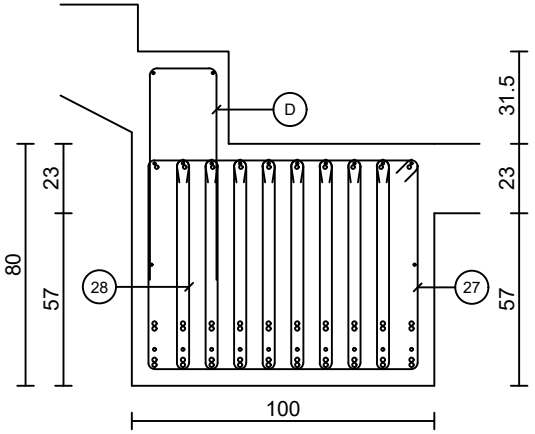
Coupe C-C
Echelle=1/25



Coupe D-D
Echelle=1/25



Coupe E-E
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE **BAT 1 - PH SS-1**	-62- & -C.5-	Béton=5.22 m3 Acier=595.3 kg d=113.9 kg/m3 Fi=11.8 mm Cof=13.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	5/6

Section : 100 x 80ht

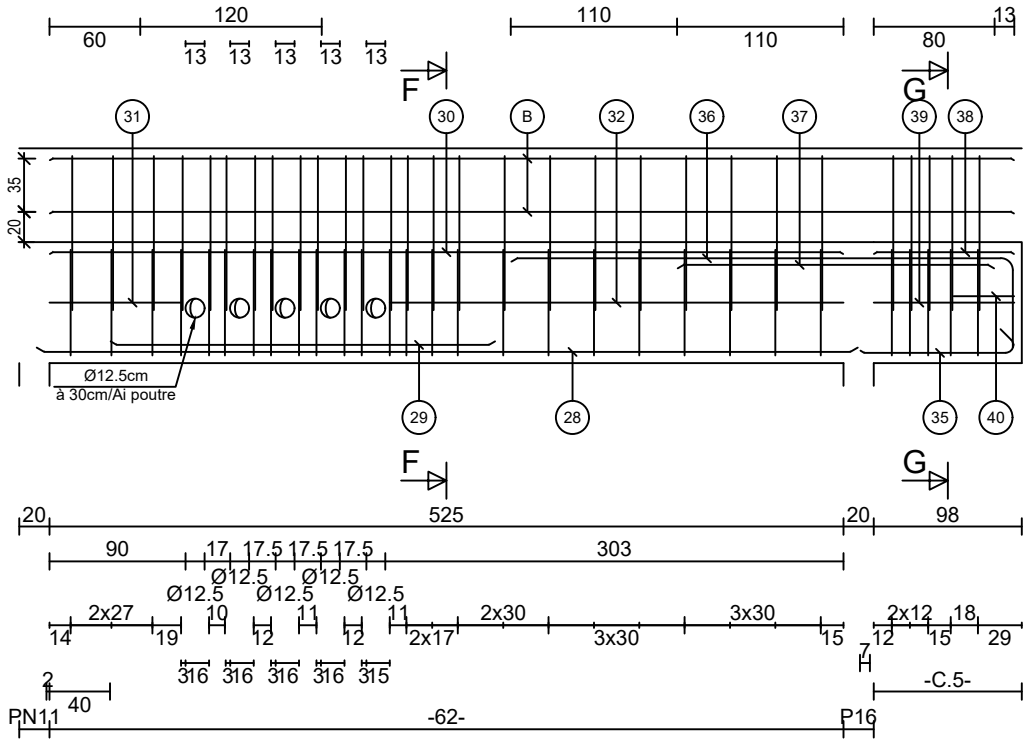
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

Elévation

Echelle=1/50



	Barre		Lg	Forme
	28	10HA20	544	544
	29	10HA16	255	255
	30	10HA8	525	525
	31	2HA8	87	87
	32	2HA8	300	300
	33	24HA10	329	70 / 90
	34	192HA10	162	70
	35	10HA10	118	10 / 15 / 135° / 102
*	36	10HA16	388	60 / 90° / 16 / 333
*	37	10HA16	210	210
	38	10HA8	93	93
	39	2HA8	93	93
*	40	1HA8	164	40 / 88 / 40
	41	5HA10	329	70 / 90
	42	40HA10	162	70
*	A	29HA8	218	8 / 57 / 48 / 105
*	B	2x2HA10	638	638

Barre	Lg/Poids
HA8	73.0/28.9
HA10	482.9/297.9
HA16	85.3/134.5
HA20	54.4/134.2

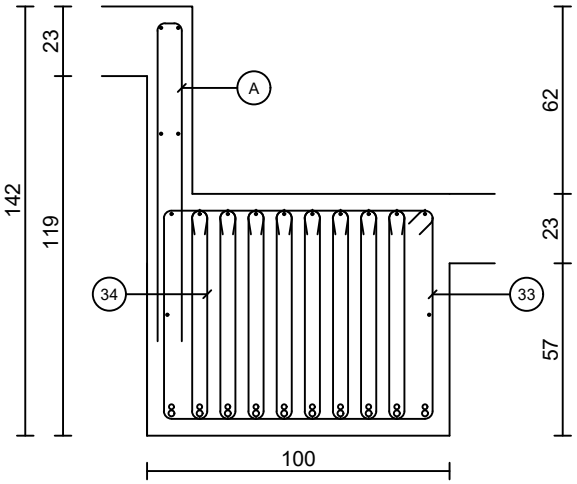
Structuriste

PIERREFITTE SUR SEINE **BAT 1 - PH SS-1**	-62- & -C.5-	Béton=5.22 m3 Acier=595.3 kg d=113.9 kg/m3 Fi=11.8 mm Cof=13.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	6 6
Section : 100 x 80ht				
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2				

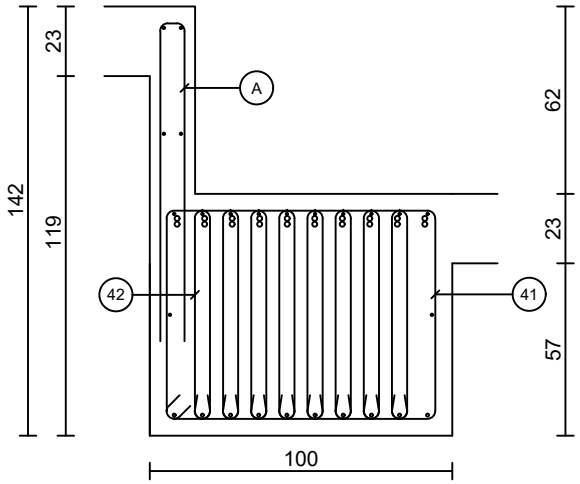
* Aciers non soudés

Béton
C25/30

Coupe F-F
Echelle=1/25



Coupe G-G
Echelle=1/25



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-63-	Béton=2.06 m3 Acier=193.3 kg d=94.0 kg/m3 Fi=10.7 mm Cof=6.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

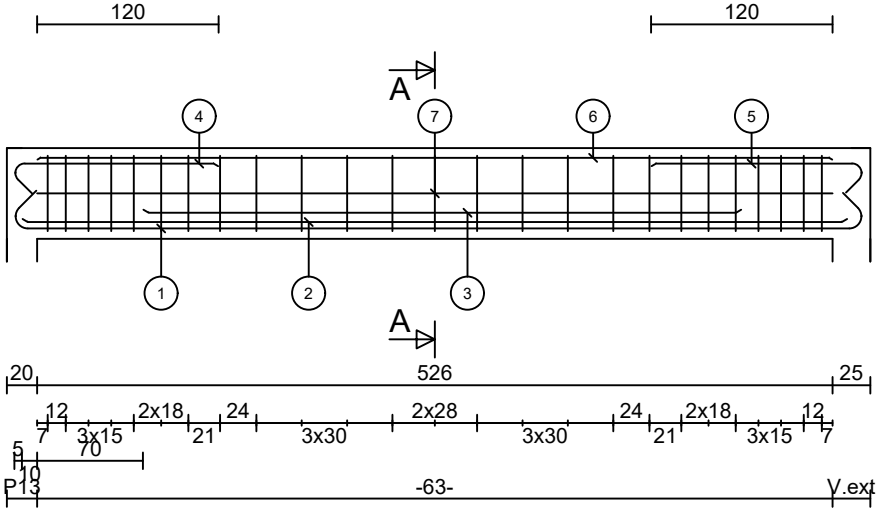
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

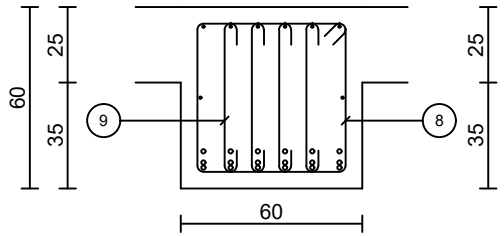
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre	Lg	Forme
1	6HA14	611	25 16 16 23 135° 135° 561
2	6HA14	546	546
3	6HA14	396	396
* 4	6HA12	156	20 13 135° 135
* 5	6HA12	160	19 13 135° 140
6	6HA8	526	526
7	2HA8	526	526
8	25HA8	209	50 50
9	100HA8	68	50

Barre	Lg/Poids
HA8 HA12 HA14	161.9/63.9 18.9/16.8 93.2/112.6

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-64-	Béton=2.72 m3 Acier=504.4 kg d=185.5 kg/m3 Fi=13.4 mm Cof=9.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

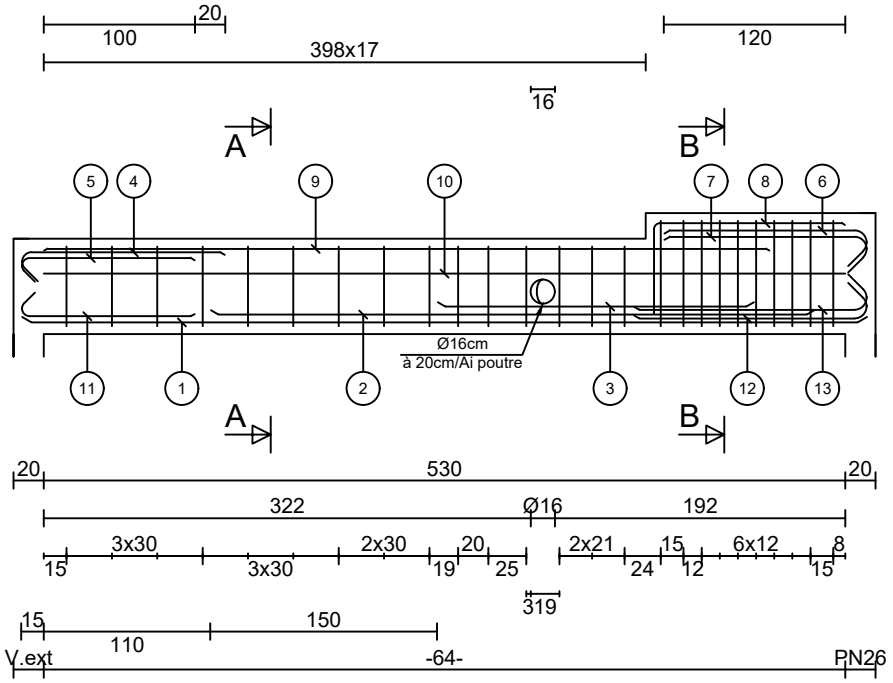
Section : 70 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

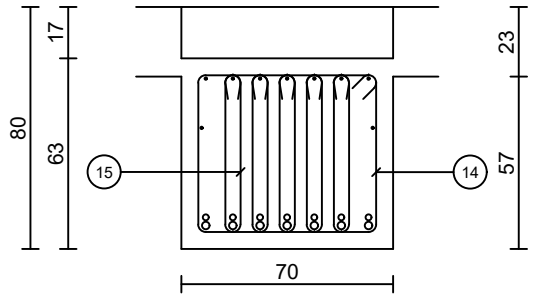
* Aciers non soudés

Béton C25/30

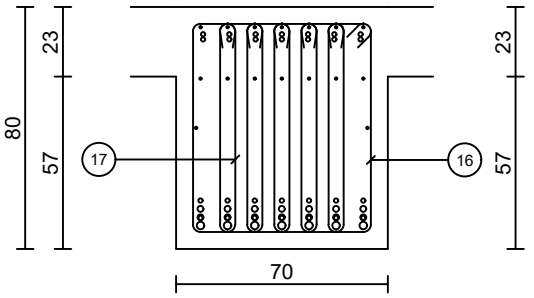
Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



	Barre	Lg	Forme
1	7HA25	560	560
2	7HA20	400	400
3	7HA20	210	210
* 4	7HA12	155	19 / 13 / 135° / 135
* 5	7HA10	131	15 / 10 / 135° / 115
* 6	7HA14	159	23 / 135° / 16 / 135
* 7	7HA14	159	23 / 135° / 16 / 135
8	7HA8	185	60 / 8 / 90° / 127
9	7HA8	480	480
10	2HA8	530	530
11	7HA10	131	16 / 135° / 10 / 115
12	7HA14	179	23 / 16 / 135° / 155
13	7HA14	179	23 / 16 / 135° / 155
14	15HA10	235	53 / 60
15	75HA10	128	53
16	10HA10	269	70 / 60
17	50HA10	162	70

Barre	Lg/Poids
HA8	57.1/22.6
HA10	257.4/158.8
HA12	10.8/9.6
HA14	47.3/57.2
HA20	42.7/105.3
HA25	39.2/151.0

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-65-	Béton=2.97 m3 Acier=473.7 kg d=159.4 kg/m3 Fi=12.7 mm Cof=8.8 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 70 x 70ht

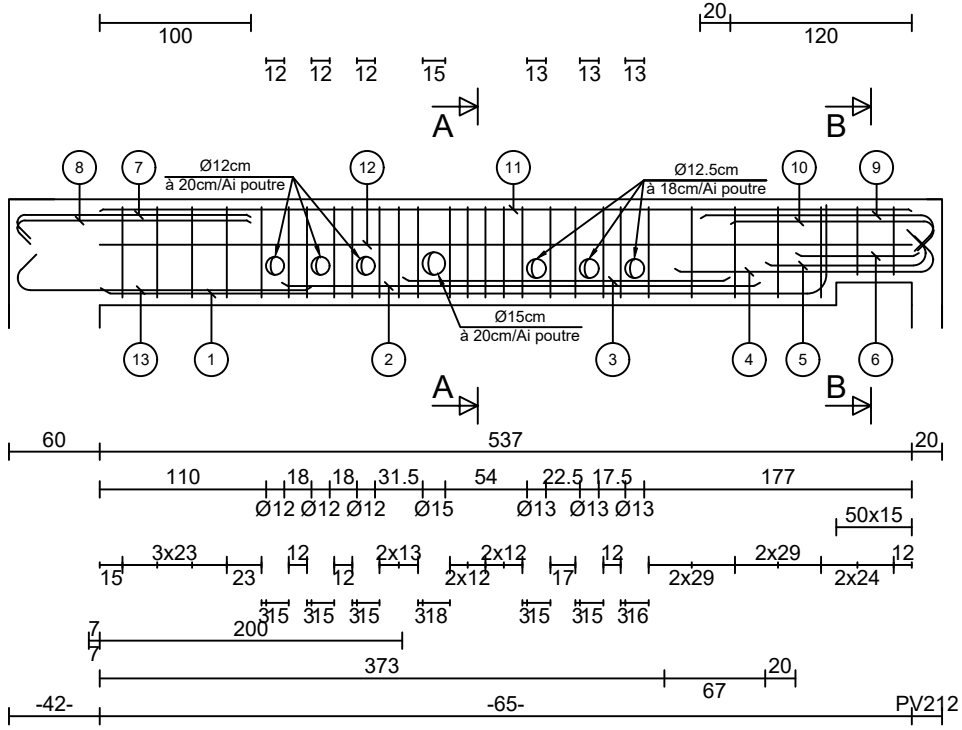
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

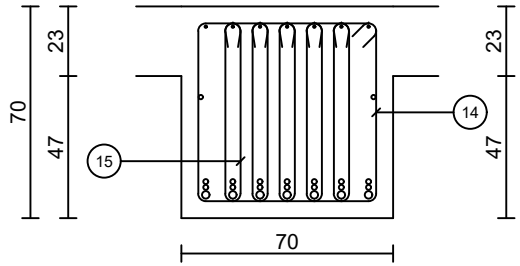
Elévation

Echelle=1/50



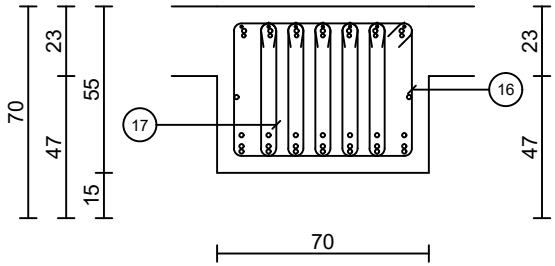
Coupe A-A

Echelle=1/25



Coupe B-B

Echelle=1/25



	Barre		Lg	Forme
	1	7HA25	534	25 60 90° 482
	2	7HA16	317	317
	3	7HA16	217	217
	4	7HA14	196	16 23 135° 172
	5	7HA14	131	16 23 135° 107
	6	7HA14	82	82
*	7	7HA10	171	10 15 135° 155
*	8	7HA10	171	10 15 135° 155
*	9	7HA14	179	23 16 135° 155
*	10	7HA12	155	19 13 135° 135
	11	7HA8	537	537
	12	2HA8	537	537
*	13	7HA14	219	23 16 135° 195
	14	26HA10	249	60 60
	15	130HA10	142	60
	16	2HA10	219	45 60
	17	10HA10	112	45

Barre	Lg/Poids
HA8	37.6/14.8
HA10	288.7/178.2
HA12	10.8/9.6
HA14	56.5/68.2
HA16	37.4/59.0
HA25	37.4/143.9

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-66-	Béton=4.66 m3 Acier=593.5 kg d=127.4 kg/m3 Fi=12.1 mm Cof=11.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

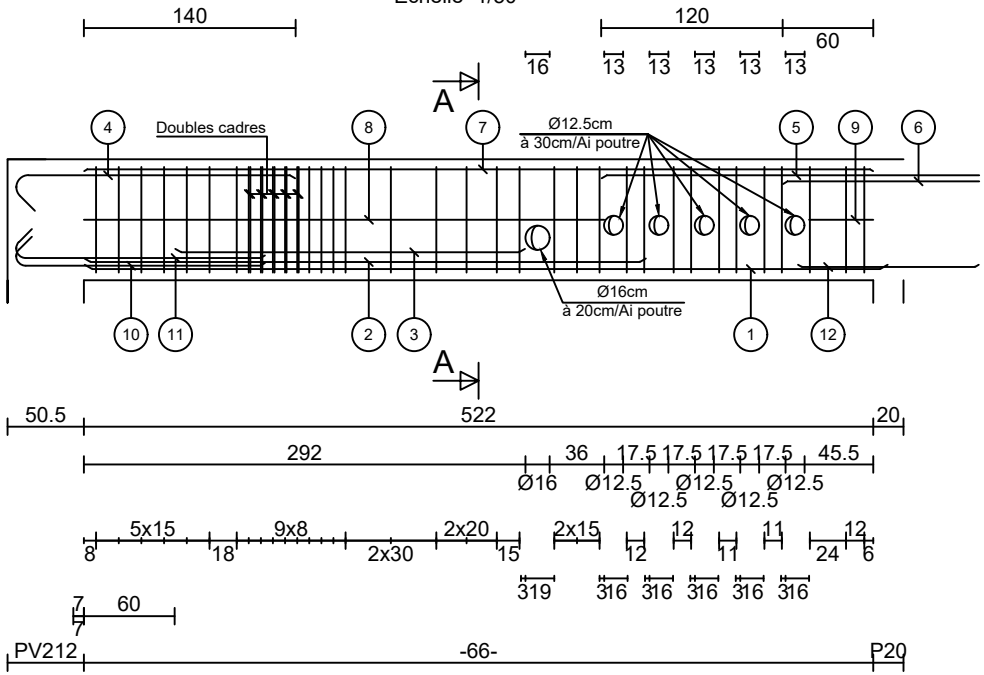
Section : 100 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

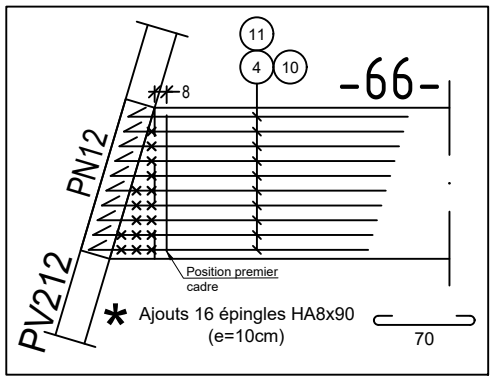
Béton C25/30

Elévation
Echelle=1/50

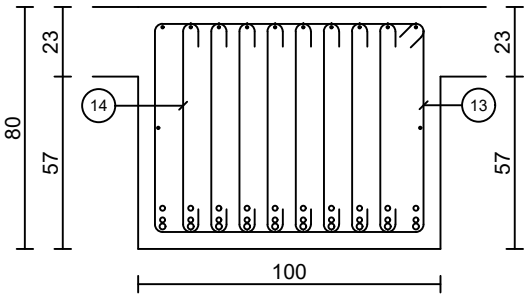


	Barre		Lg	Forme
	1	10HA20	532	532
	2	10HA16	372	372
	3	10HA16	232	232
*	4	10HA14	209	13 / 16 / 135° / 185
*	5	10HA14	300	190 / 110 / 163°
*	6	10HA12	180	70 / 110 / 163°
	7	10HA8	522	522
	8	2HA8	344	344
	9	2HA8	42	42
*	10	10HA12	185	19 / 135° / 13 / 166
*	11	10HA12	185	19 / 135° / 13 / 166
*	12	10HA10	120	60 / 60 / 163°
	13	40HA10	329	70 / 90
	14	349HA10	90	70

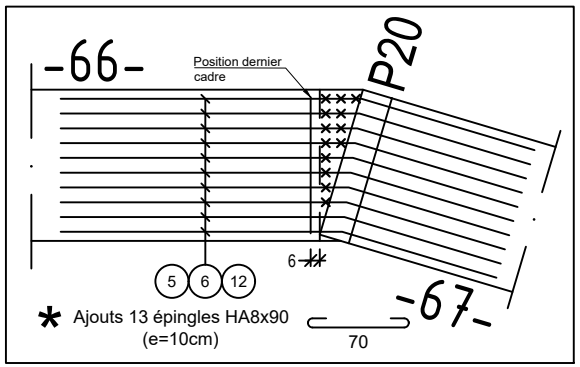
VEP - Aciers sur appui gauche
Echelle=1/50



Coupe A-A
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



Barre	Lg/Poids
HA8	59.9/23.7
HA10	377.7/233.0
HA12	55.0/48.9
HA14	50.9/61.5
HA16	60.4/95.3
HA20	53.2/131.2

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-67- & -C.6-	Béton=2.44 m3 Acier=149.3 kg d=61.2 kg/m3 Fi=10.9 mm Cof=5.9 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

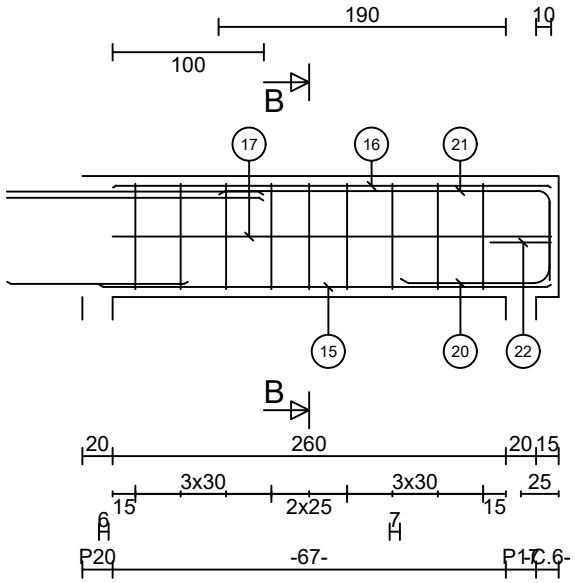
Section : 100 x 80ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

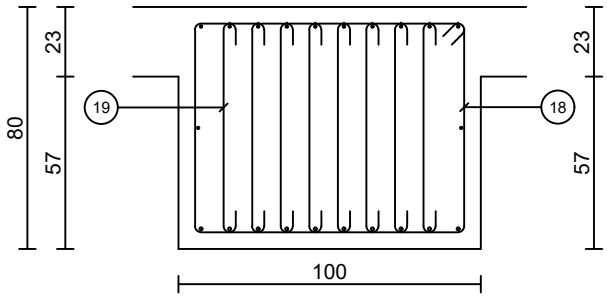
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe B-B
Echelle=1/25



	Barre	Lg	Forme
15	10HA10	299	299
16	10HA8	290	290
17	2HA8	290	290
18	9HA8	329	70 / 90
19	72HA8	88	70
20	10HA20	149	20 / 55 / 90° / 100
21	10HA16	275	60 / 90° / 16 / 220
22	1HA8	164	40 / 88 / 40

Barre	Lg/Poids
HA8	129.1/51.0
HA10	29.9/18.4
HA16	27.5/43.3
HA20	14.9/36.6

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-68-	Béton=2.03 m3 Acier=142.5 kg d=70.3 kg/m3 Fi=10.3 mm Cof=6.6 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

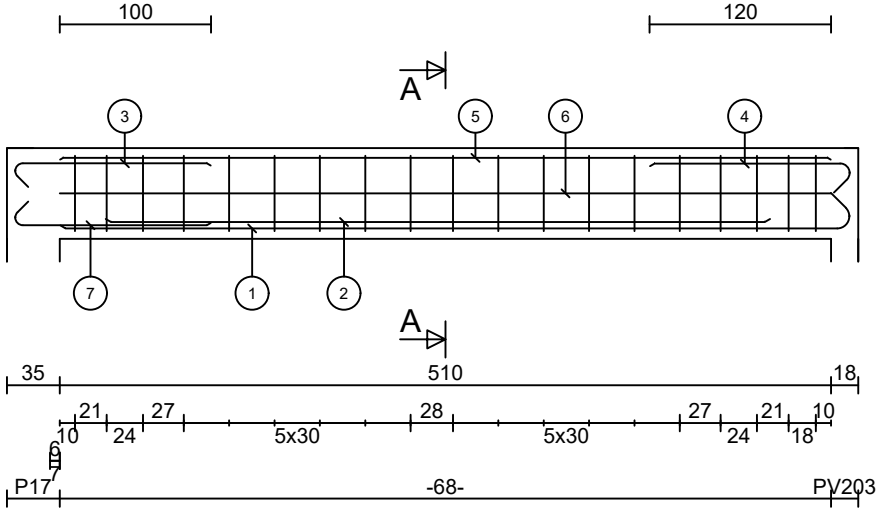
Section : 60 x 60ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

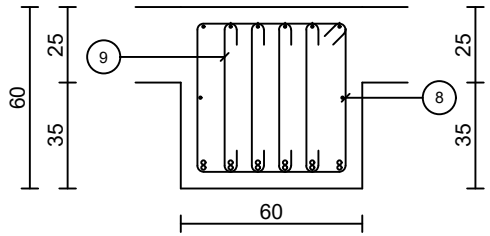
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
1	6HA14		547	16 Ø 13 135° 523
2	6HA14		440	440
* 3	6HA10		146	10 Ø 15 135° 130
* 4	6HA12		153	135° 19 Ø 13 133
5	6HA8		510	510
6	2HA8		510	510
* 7	6HA10		146	135° 16 Ø 10 130
8	19HA8		209	50 50
9	76HA8		68	50

Barre	Lg/Poids
HA8	131.8/52.1
HA10	17.5/10.8
HA12	9.2/8.1
HA14	59.2/71.5

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-88-	Béton=1.81 m3 Acier=153.2 kg d=84.5 kg/m3 Fi=11.8 mm Cof=5.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

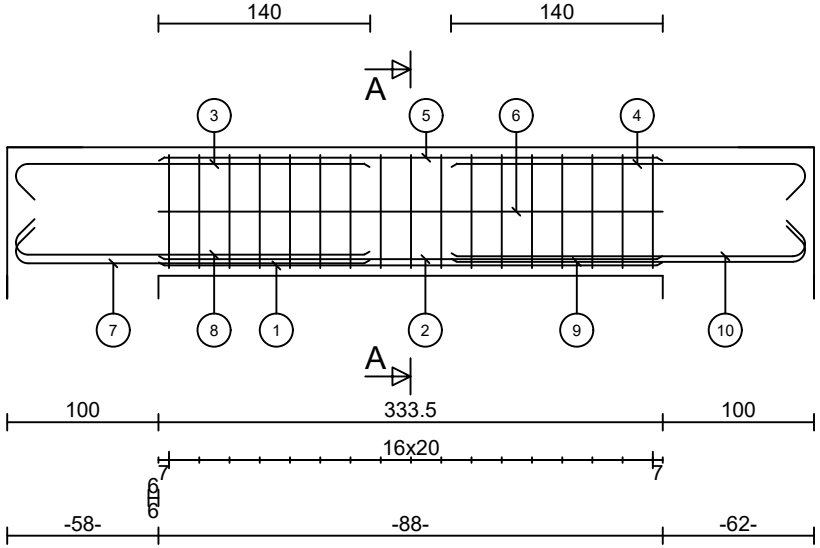
Section : 40 x 85ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

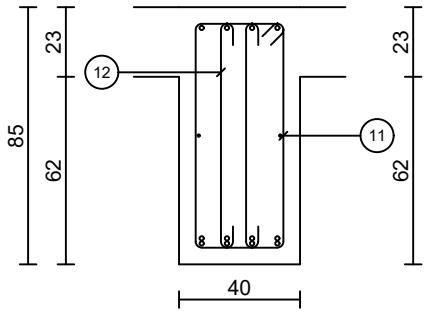
* Aciers non soudés

Béton C25/30

Elévation
Echelle=1/50



Coupe A-A
Echelle=1/25



	Barre		Lg	Forme
1	4HA14	334		334
2	4HA14	334		334
* 3	4HA14	259		23 16 135° 235
* 4	4HA14	259		23 135° 16 235
5	4HA14	334		334
6	2HA8	334		334
* 7	4HA14	259		23 135° 16 235
* 8	4HA14	259		23 135° 16 235
* 9	4HA14	259		23 16 135° 235
* 10	4HA14	259		23 16 135° 235
11	17HA8	219		75 30
12	34HA8	93		75

Barre	Lg/Poids
HA8 HA14	75.3/29.8 102.2/123.4

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-89-	Béton=3.70 m3 Acier=250.9 kg d=67.8 kg/m3 Fi=11.7 mm Cof=8.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

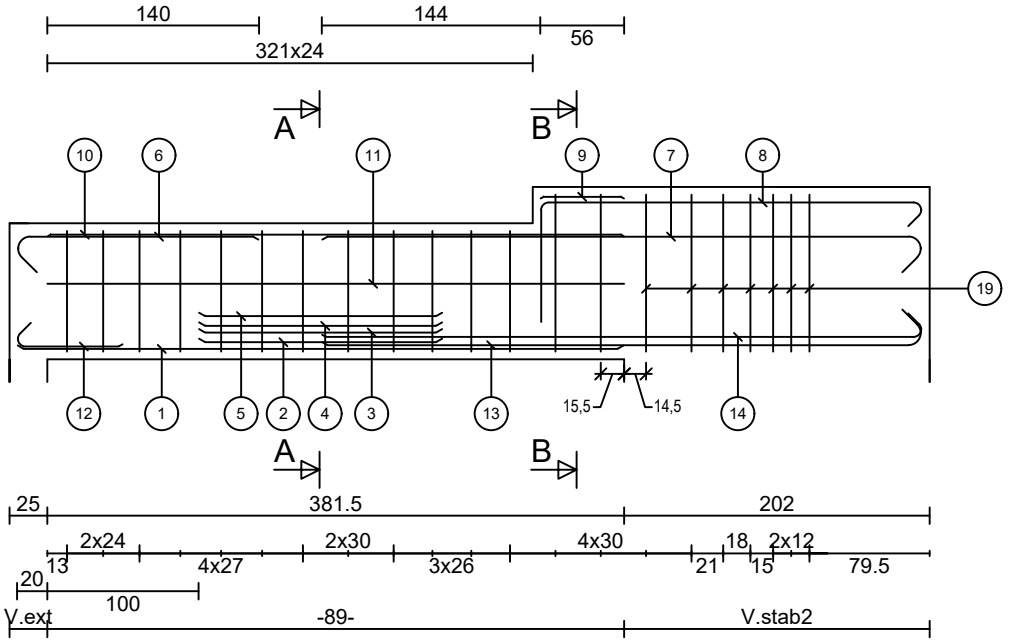
Section : 60 x 114ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/50



	Barre		Lg	Forme
	1	6HA16	402	402
	2	6HA16	162	162
	3	6HA16	162	162
	4	6HA16	162	162
	5	6HA16	162	162
*	6	6HA14	184	23 16 135° 160
*	7	6HA14	421	23 135° 16 397
*	8	6HA10	345	15 135° 1010 80 90° 253
	9	6HA8	56	56
	10	6HA8	382	382
	11	2HA8	381	381
	12	6HA10	86	16 135° 10 70
*	13	6HA14	421	23 16 135° 397
*	14	6HA10	413	15 10 135° 397
	15	11HA8	269	80 50
	16	44HA8	98	80
	17	2HA8	317	104 50
	18	19HA8	122	104

*	19	7x 2U HA8 (à plier si nécessaire)	204	104 50

Barre	Lg/Poids
HA8	122.4/48.4
HA10	50.7/31.3
HA14	59.8/72.2
HA16	62.9/99.2

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-89-	Béton=3.70 m3 Acier=250.9 kg d=67.8 kg/m3 Fi=11.7 mm Cof=8.3 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2/2

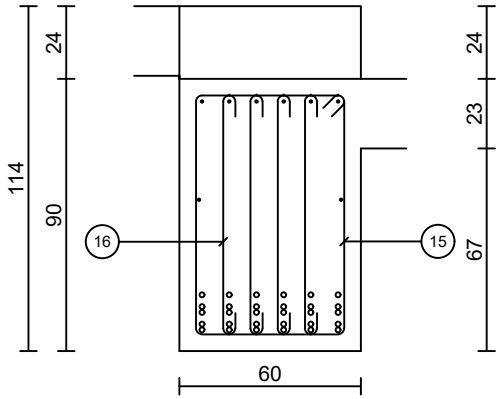
Section : 60 x 114ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

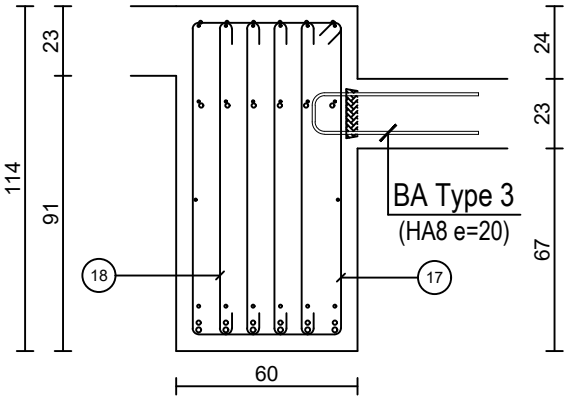
* Aciers non soudés

Béton
C25/30

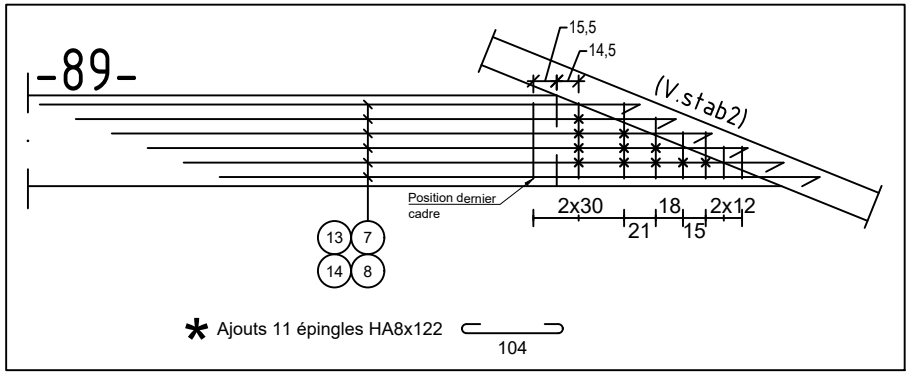
Coupe A-A
Echelle=1/25



Coupe B-B
Echelle=1/25



VEP - Aciers sur appui droite
Echelle=1/50



Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.4-	Béton=0.24 m3 Acier=17.4 kg d=72.6 kg/m3 Fi=9.1 mm Cof=0.4 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

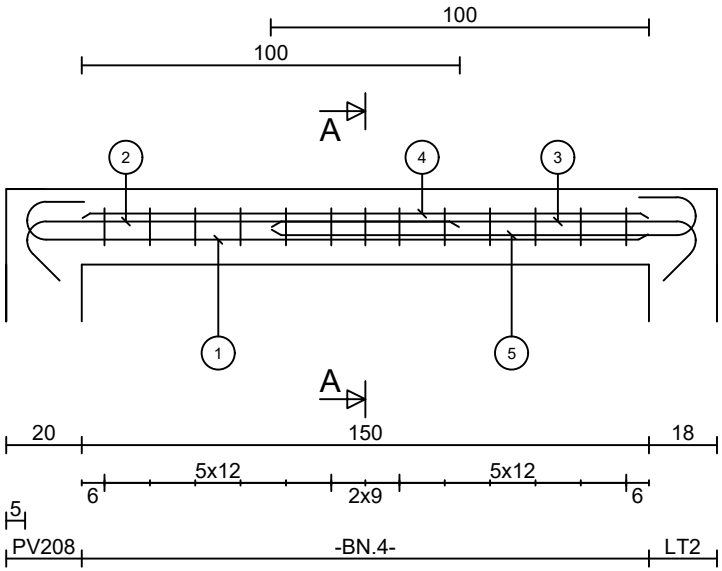
Section : 30 x 20ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

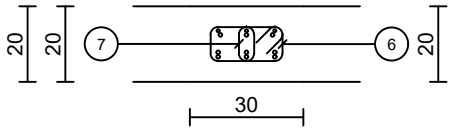
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/20



Coupe A-A
Echelle=1/20



	Barre		Lg	Forme
1	3HA10	185		16 180° 10 165
* 2	3HA10	131		16 10 135° 115
* 3	3HA10	129		16 135° 10 113
4	3HA8	150		150
* 5	3HA10	133		16 10 180° 113
6	13HA8	69		10 20
7	13HA8	28		10

Barre	Lg/Poids
HA8 HA10	17.0/6.7 17.4/10.7

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.5-	Béton=0.43 m3 Acier=25.2 kg d=59.1 kg/m3 Fi=10.3 mm Cof=0.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

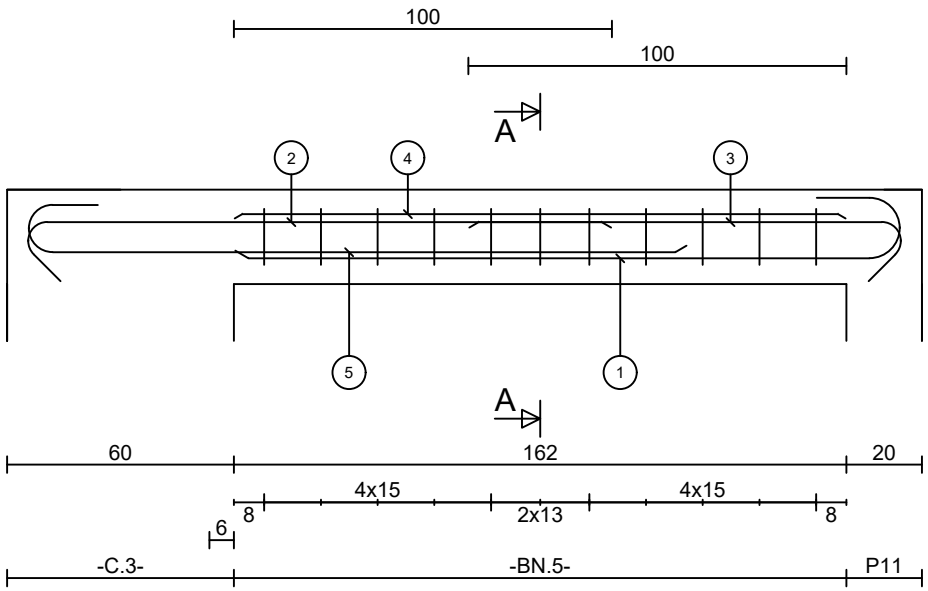
Section : 30 x 25ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

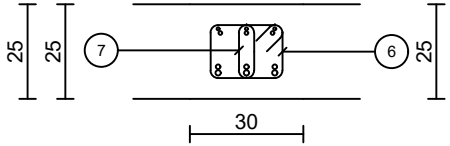
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/20



Coupe A-A
Echelle=1/20



	Barre		Lg	Forme
1	3HA14		207	23, 16, 180°, 177
* 2	3HA10		171	16, 10, 135°, 155
* 3	3HA10		131	16, 135°, 10, 115
4	3HA8		162	162
* 5	3HA12		200	19, 180°, 13, 175
6	11HA8		79	15, 20
7	11HA8		33	15

Barre	Lg/Poids
HA8	17.1/6.8
HA10	9.1/5.6
HA12	6.0/5.3
HA14	6.2/7.5

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.6-	Béton=0.43 m3 Acier=28.1 kg d=65.9 kg/m3 Fi=10.5 mm Cof=0.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

Section : 30 x 25ht

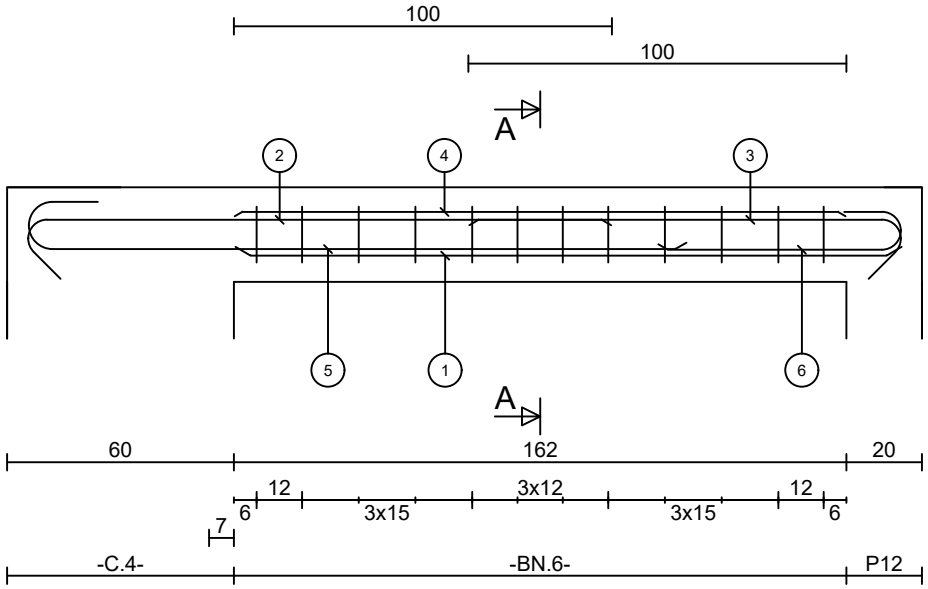
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

* Aciers non soudés

Béton C25/30

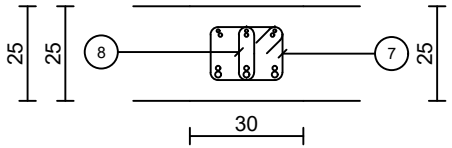
Elévation

Echelle=1/20



Coupe A-A

Echelle=1/20



	Barre		Lg	Forme
1	3HA16	177		177
* 2	3HA10	171		10 16 155 135°
* 3	3HA10	131		16 135° 10 115
4	3HA8	162		162
* 5	3HA12	200		19 180° 13 175
6	3HA10	85		15 10 65 180°
7	12HA8	79		15 20
8	12HA8	33		15

Barre	Lg/Poids
HA8	18.2/7.2
HA10	11.6/7.2
HA12	6.0/5.3
HA16	5.3/8.4

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.7-	Béton=0.43 m3 Acier=31.3 kg d=73.6 kg/m3 Fi=10.6 mm Cof=0.5 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

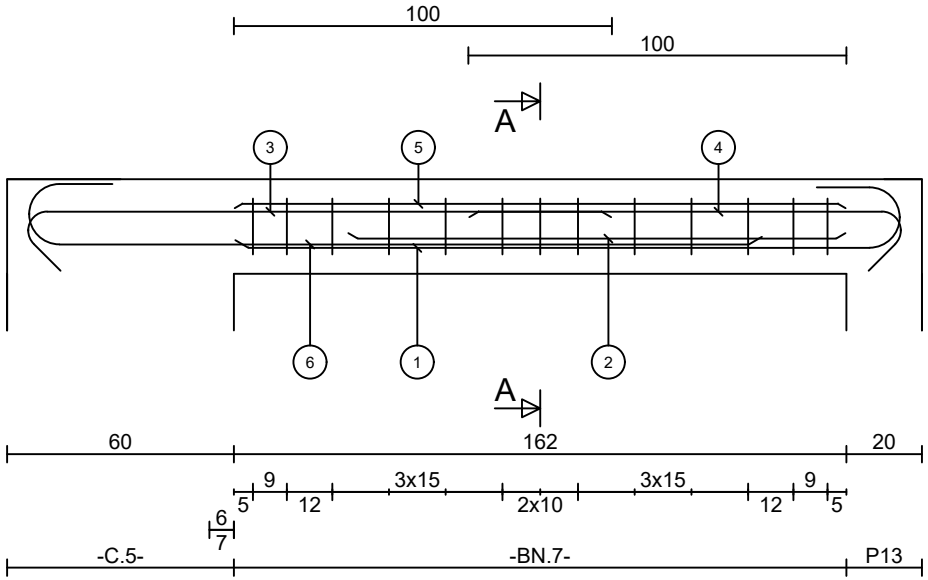
Section : 30 x 25ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

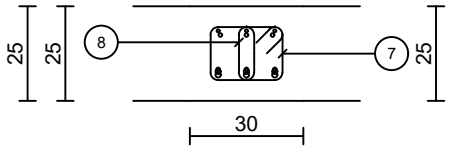
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/20



Coupe A-A
Echelle=1/20



	Barre		Lg	Forme
1	3HA14		207	23, 16, 180°, 177
2	3HA10		132	132
*	3	3HA10	171	16, 10, 135°, 155
*	4	3HA10	131	16, 135°, 10, 115
5	3HA8		162	162
*	6	3HA14	225	23, 180°, 16, 195
7	13HA8		79	15, 20
8	13HA8		33	15

Barre	Lg/Poids
HA8	19.3/7.6
HA10	13.0/8.0
HA14	13.0/15.7

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.8-	Béton=0.58 m3 Acier=44.1 kg d=75.4 kg/m3 Fi=9.6 mm Cof=1.0 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 2

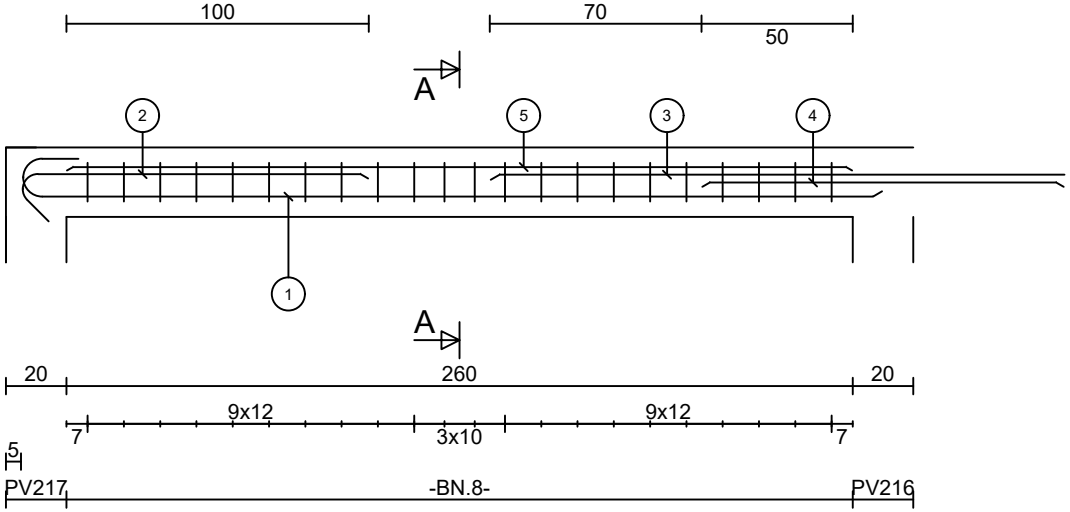
Section : 40 x 23ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

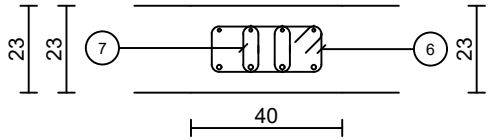
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/25



Coupe A-A
Echelle=1/20



	Barre		Lg	Forme
1	4HA12		310	19, 180°, 13, 285
* 2	4HA10		131	76, 10, 115, 135°
* 3	4HA12		260	260
* 4	4HA10		120	120
5	4HA8		260	260
6	22HA8		95	13, 30
7	44HA8		31	13

Barre	Lg/Poids
HA8 HA10 HA12	44.7/17.7 10.0/6.2 22.8/20.2

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.9-	Béton=0.79 m3 Acier=40.1 kg d=50.8 kg/m3 Fi=9.3 mm Cof=1.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	2 2

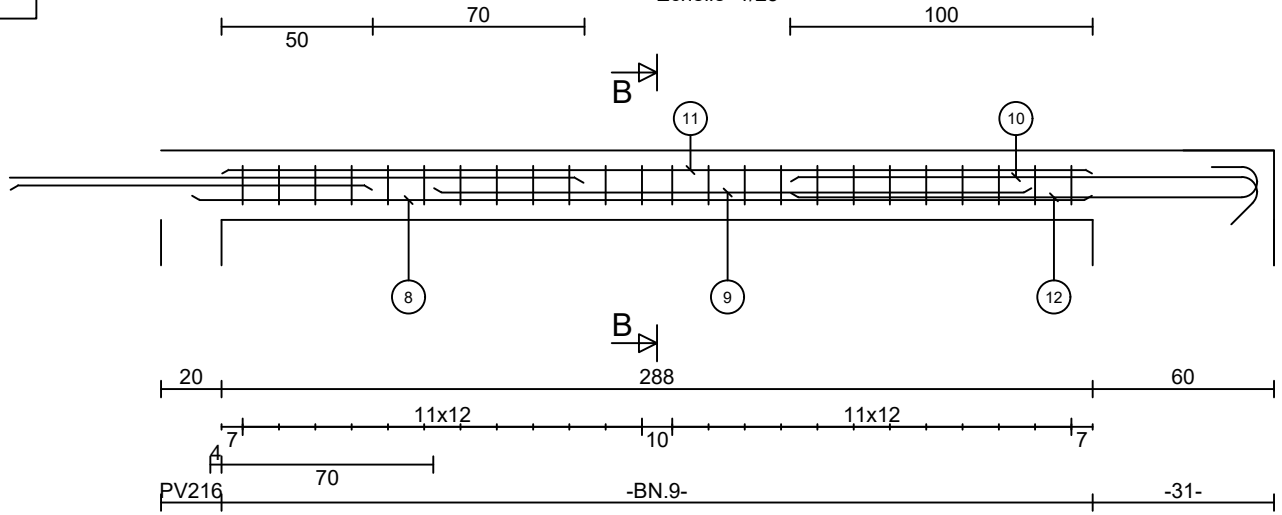
Section : 40 x 23ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

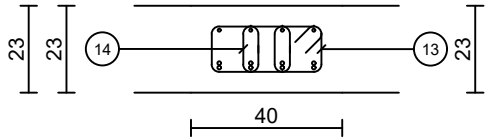
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/25



Coupe B-B
Echelle=1/20



	Barre	Lg	Forme
8	4HA10	298	298
9	4HA10	198	198
* 10	4HA10	171	16, 10, 135°, 155
11	4HA8	288	288
* 12	4HA10	175	15, 10, 180°, 155
13	24HA8	95	13, 30
14	48HA8	31	13

Barre	Lg/Poids
HA8 HA10	49.0/19.3 33.7/20.8

Structuriste

PIERREFITTE SUR SEINE BAT 1 - PH SS-1	-BN.10-	Béton=0.16 m3 Acier=8.1 kg d=49.2 kg/m3 Fi=9.2 mm Cof=0.2 m² Densité acier: 7850.00 kg / m3	Eb=5.0 cm Eh=5.0 cm El=5.0 cm	1 1

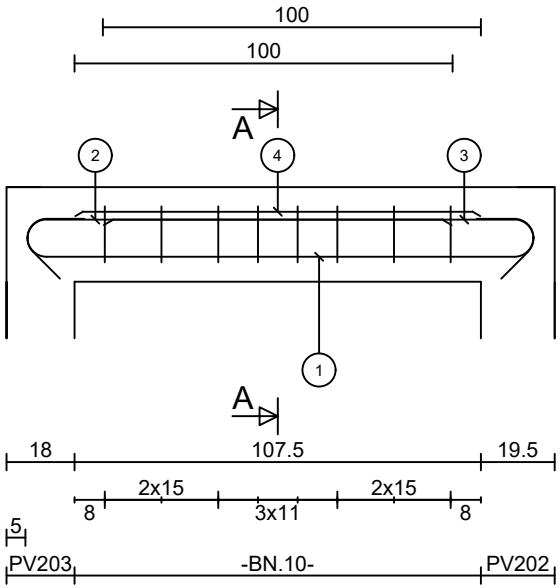
Section : 20 x 25ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 120 | Classe d'exposition: XC2

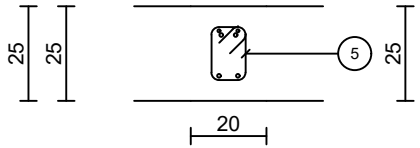
* Aciers non soudés

Béton
C25/30

Elévation
Echelle=1/20



Coupe A-A
Echelle=1/20



	Barre	Lg	Forme
1	2HA10	175	16 16 180° 10 10 180° 135
* 2	2HA10	129	16 10 135° 113
* 3	2HA10	131	16 135° 10 114
4	2HA8	108	108
5	8HA8	59	15 10

Barre	Lg/Poids
HA8 HA10	6.9/2.7 8.7/5.4