

HYPOTHESE DE L'ETUDE

Classe de béton :	C25/30 sauf indications contraires
Classe de béton :	XC1
Degrés CF :	1 heure
Aciers :	B500B (HA) + B500A (TS)
Enrobage :	4 cm bas / 4cm lat / 5cm haut
Fissuration	$W_{kmax} = 0.3mm$

Kilotage : 2345 Kg

Section : 40 x 75ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 | Classe d'exposition: XC1

* Aciers non soudés

Poids Préfa : 3.39T

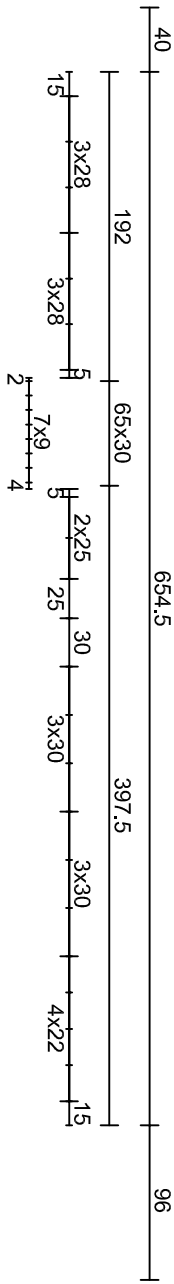
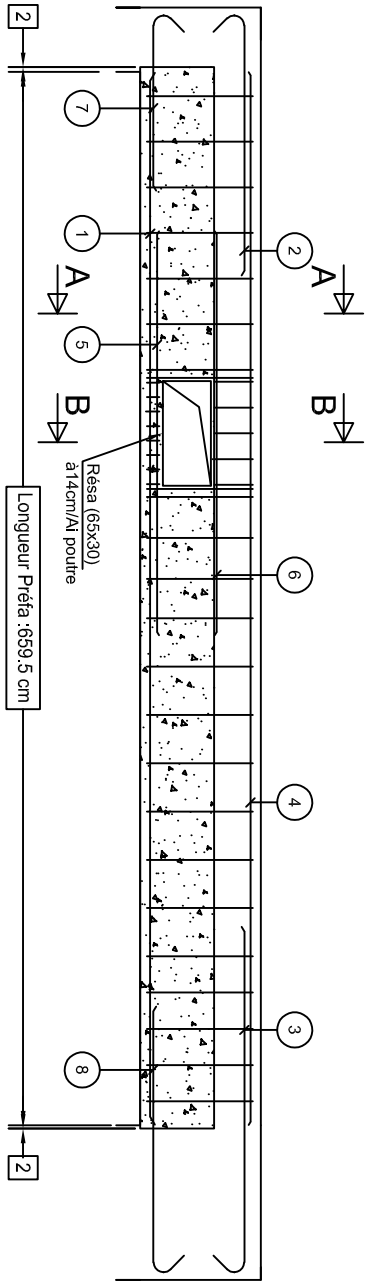
Elevation

Echelle=1/50

127

124

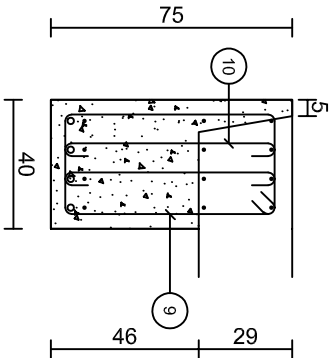
4x16
0 1



P.7003B 7001B P.7034B

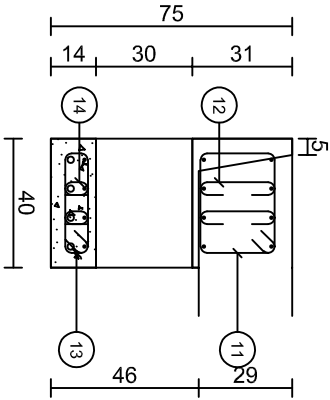
Coupe A-A

Echelle=1/25



Coupe B-B

Echelle=1/25



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Barre	Lg	Forme
1 4HA20	655	655
2 4HA12	182	135° 135° 163
3 4HA12	235	135° 135° 216
4 4HA8	655	655
5 4HA8	251	251
6 4HA8	251	251
7 4HA12	130	135° 135° 110
8 4HA12	186	135° 135° 166
9 24HA8	205	32
10 48HA8	84	66
11 5HA8	121	32
12 10HA8	42	24
13 8HA8	89	32
14 16HA8	26	8
A 4x2UHA8 (e=20cm)	130	32
Barre		
HA8	157.0/62.0	
HA12	22.9/20.4	
HA20	26.2/64.6	

Section : 40 x 75ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 | Classe d'exposition: XC1

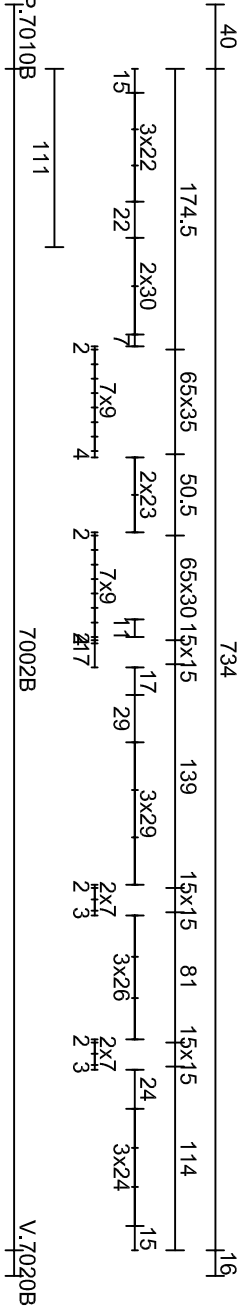
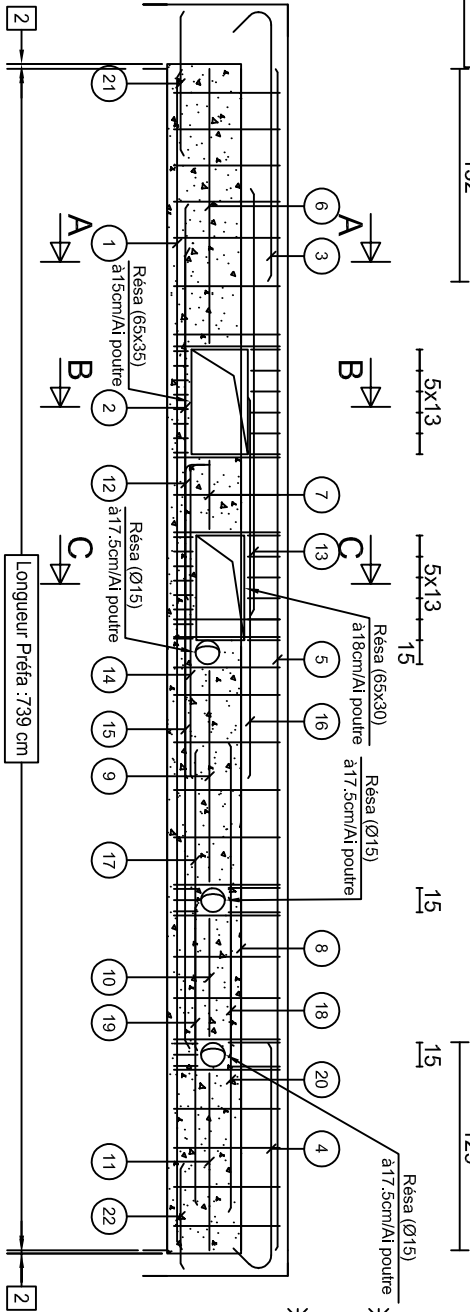
* Aciers non soudés

Elevation

Echelle=1/50

Poids Préfa : 3.132T

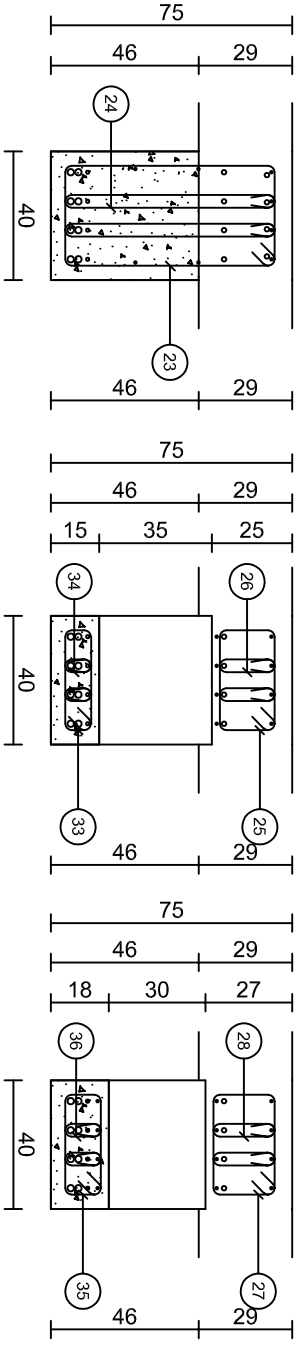
C40/50

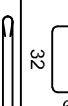
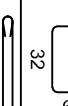
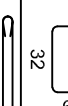
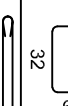
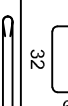
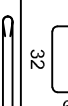
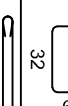
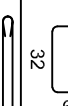
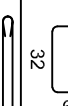
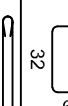
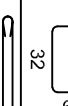
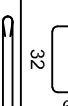
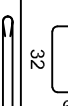
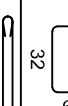
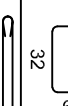
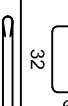
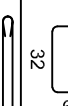
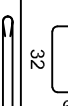


Coupe A-A
Echelle=1/25

Coupe B-B
Echelle=1/25

Coupe C-C
Echelle=1/25



Barre	Lg	Forme	Barre	Lg	Forme
1 4HA20	734	734	23 28HA8	205	
2 4HA20	498	498			
3 4HA14	192	$\frac{23}{168}$ 135°	24 56HA8	151	
4 4HA14	165	$\frac{93}{141}$ 135°	25 6HA8	109	
5 4HA8	734	734	26 12HA8	55	
6 4HA8	171	171	27 6HA8	113	
7 4HA8	42	42	28 12HA8	59	
8 2HA8	375	375	29 2HA8	137	
9 2HA8	131	131			
10 2HA8	73	73	30 4HA8	83	
11 2HA8	110	110	31 2HA8	137	
12 4HA10	246	246			
13 4HA14	266	266	32 4HA8	83	
14 4HA8	205	$\frac{21}{90}$ 135°	33 8HA8	91	
15 4HA8	205	$\frac{21}{90}$ 135°			
16 4HA8	237	237	34 16HA8	37	
17 4HA8	187	187	35 8HA8	97	
18 4HA10	196	196			
19 4HA8	187	187	36 16HA8	43	
20 4HA10	196	196	37 3HA8	103	
21 4HA14	90	90			
22 4HA14	66	66	38 6HA8	49	
			39 3HA8	103	
			40 6HA8	49	
Barre		Lg/Poids	Barre		Lg/Poids
HA8 HA10		314,0/124,0 25,5/15,7	HA14 HA20		31,2/37,7 49,3/121,6

Section : 20 x 85ht

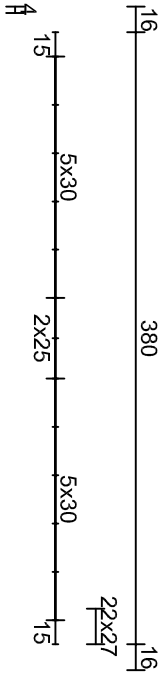
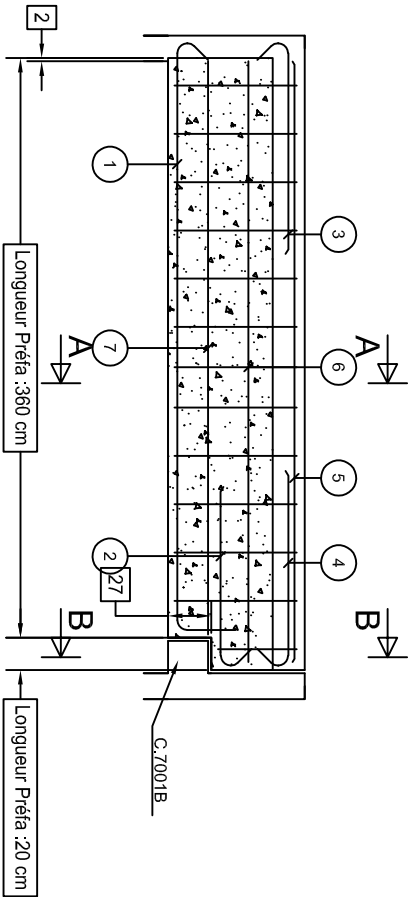
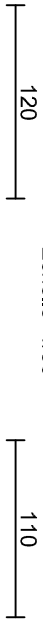
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 | Classe d'exposition: XC1

* Aciers non soudés

Poids Préfa : 1.229T

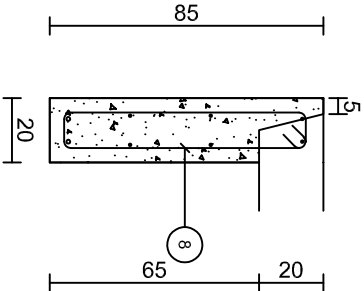
Elevation

Echelle=1/50



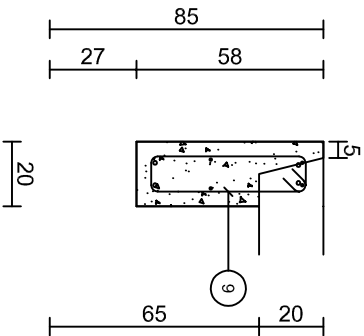
Coupe A-A

Echelle=1/25



Coupe B-B

Echelle=1/25



Barre	Lg	Forme
1 2HA12	419	
2 2HA12	132	
3 2HA12	152	
4 2HA12	142	
5 2HA8	375	
6 2HA8	375	
7 2HA8	356	
8 12HA8	185	
9 1HA8	131	

Barre	Lg/Poids
HA8 HA12	45.8/18.1 16.9/15.0

Section : 30 x 36ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 | Classe d'exposition: XC1

* Aciers non soudés

Elevation
Echelle=1/25

80

80

A

B

C

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6

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INSPIRE	7005B	Béton=0.70 m³ Acier=42.9 kg d=61.2 kg/m³ Fi=10.0 mm Cof=6.5 m²	Eb=4.0 cm Eh=5.0 cm Ef=4.0 cm	1 — 1
ZONE SUD - PH R+1				

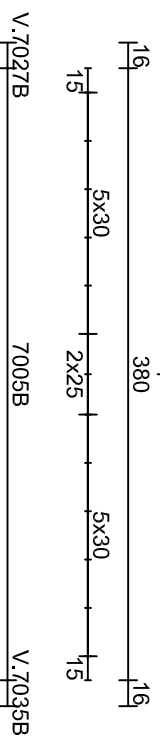
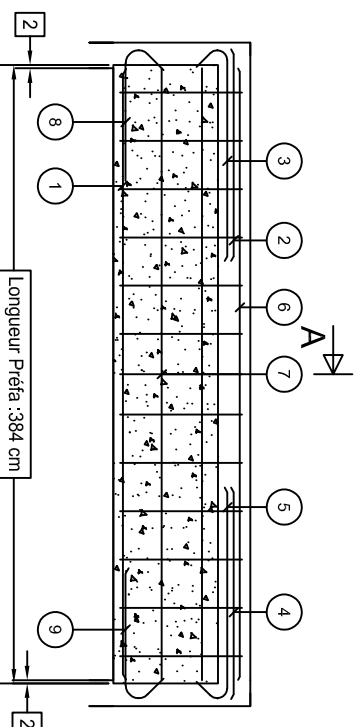
Section : 20 x 85ht

fck= 25 MPa	fyk= 500 MPa	Classe de ductilité B	Coupe feu R 60	Classe d'exposition: XC1
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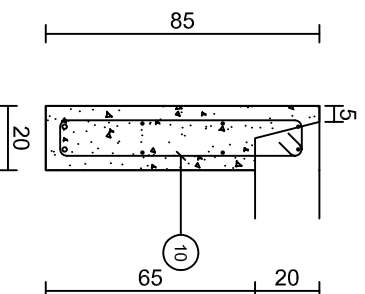
*** Aciers non soudés**

Poids Préfa : 1.224T

Elevation
Echelle=1/50



Coupe A-A
Echelle=1/25

[illegible]

Barre	Lg/Poids
HA8	46.8/18.5
HA12	11.3/10.1
HA14	11.8/14.3

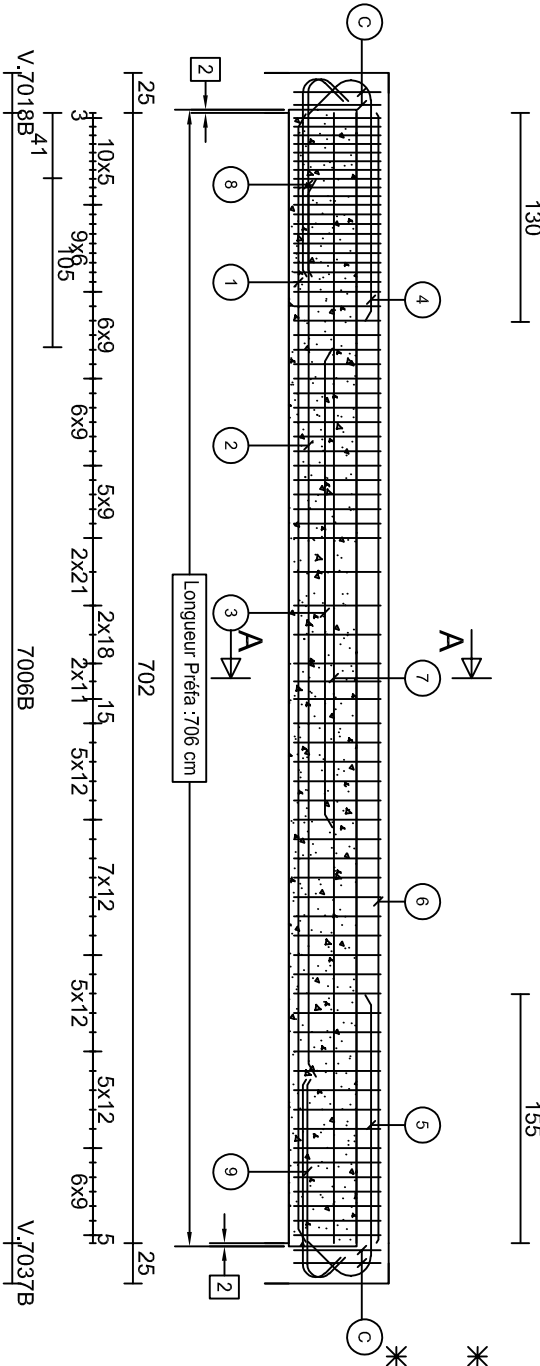
Section : 40 x 70/62ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60

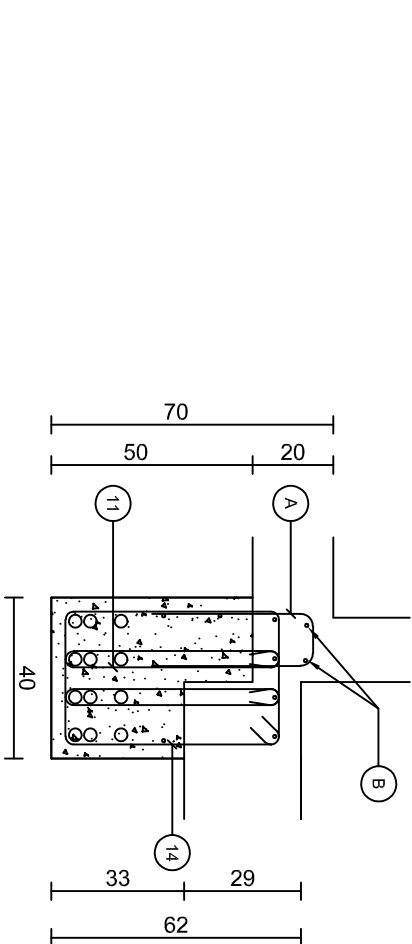
* Aciers non soudés






















Poids Préfa : 3.230T

Elévation
Echelle=1/50

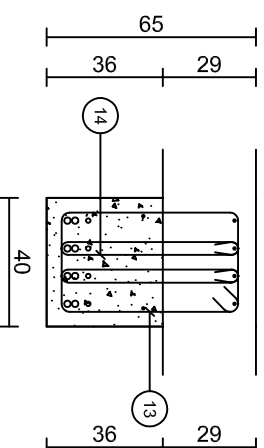


Coupe A-A
Echelle=1/20















Barre	Lg	Forme	Barre	Lg	Forme
1 4HA32	702		17 7HA10	185	
2 4HA32	559				
3 4HA32	299		A 73UHA8	90	
4 4HA25	192				
5 4HA25	217		B 2HA8	702	
			C 2x2UHA16	254	
6 4HA8	702				
7 3HA8	702				
8 8HA16	150				
9 8HA14	148				
10 19HA8	185				
11 144HA8	127				
12 6HA12	186				
13 6HA10	185				
14 24HA8	185				
15 5HA10	185				
16 5HA12	186				
Barre	Lg/Poids	Barre	Lg/Poids		
HA8	312.2/123.3	HA16	12.0/18.9		
HA10	33.3/20.5	HA25	16.4/63.1		
HA12	20.5/18.2	HA32	62.4/393.9		
HA14	11.8/14.3				

* Aciers non soudés



udés	Barre	Lg	Forme
1	4HA20	737	_____737
2	4HA20	737	_____737
3	4HA14	437	_____437
4	4HA14	132	_____132
5	4HA14	156	_____156 132 135
6	4HA14	185	_____185 135 161
7	4HA8	737	_____737
8	2HA8	737	_____737
9	4HA16	112	_____112
10	4HA16	138	_____138 135 161
11	4HA14	135	_____135
12	4HA14	159	_____159 135 161
13	37HA10	185	_____185 135 161
14	74HA8	131	_____131 56
	Barre	Lg/Poids	
	HA8	141.5/55.9	
	HA10	68.4/42.2	
	HA14	48.2/58.2	
	HA16	10.0/15.8	
	HA20	59.0/145.4	

as	Barre	La
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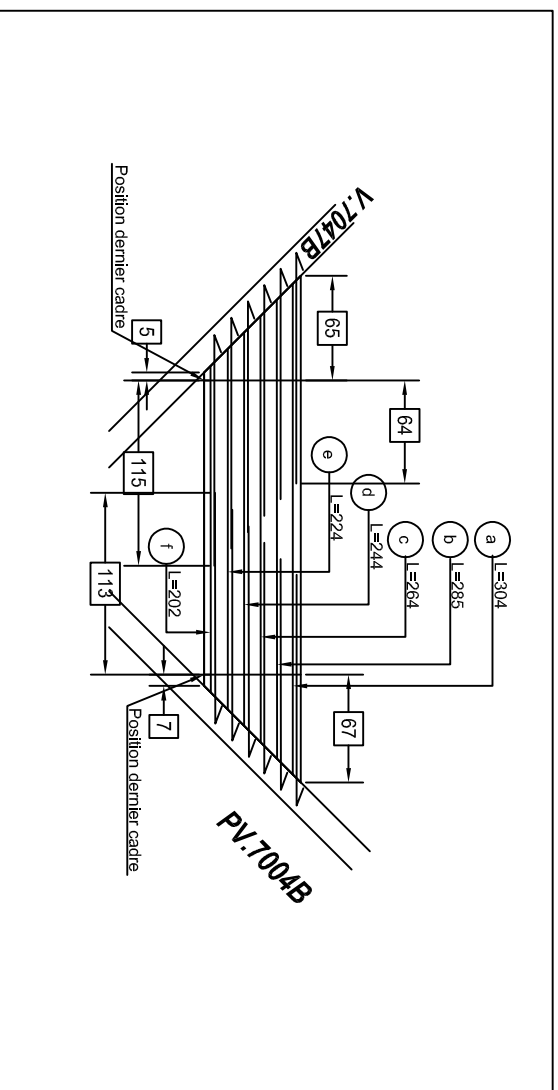
Barre	Lg	Forme	
1	6HA25	VAR	Cf. vue en plan
2	6HA25	VAR	Cf. vue en plan
3	6HA25	VAR	Cf. vue en plan
4	6HA16	234	
5	6HA16	234	
6	6HA8	194	
7	4HA8	194	
8	6HA20	230	
9	6HA20	227	
10	6HA20	224	
11	6HA20	230	
12	6HA20	227	
13	6HA20	224	
14	22HA10	275	
15	88HA10	184	
Barre		Lg/Poids	
HA8		19.4/7.7	
HA10		222.3/137.2	
HA16		28.1/44.4	
HA20		81.8/201.8	
HA25		34.9/34.5	

Section : 60 x 90ht

fck= 25 MPa	fyk= 500 MPa	Classe de ductilité B	Coupe feu R 60	Classe d'exposition: XC1
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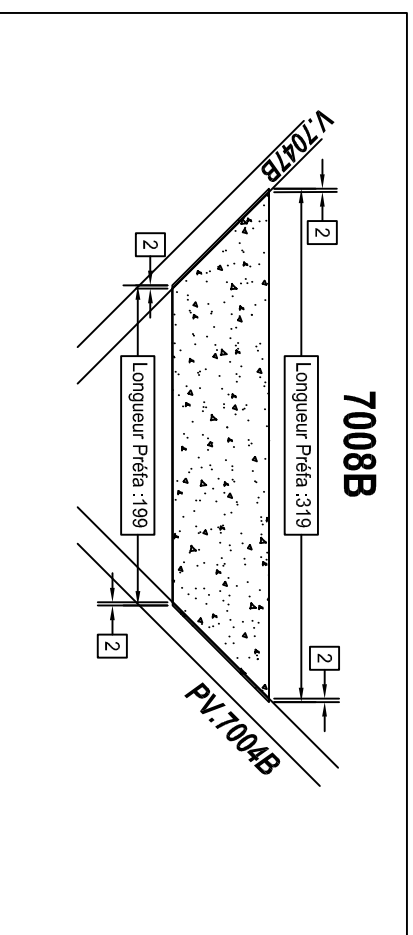
Vue en plan aciers

Echelle=1/50



Vue en plan préfa

Echelle=1/50



Section : 40 x 50ht

fck= 40 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 | Classe d'exposition: XC1

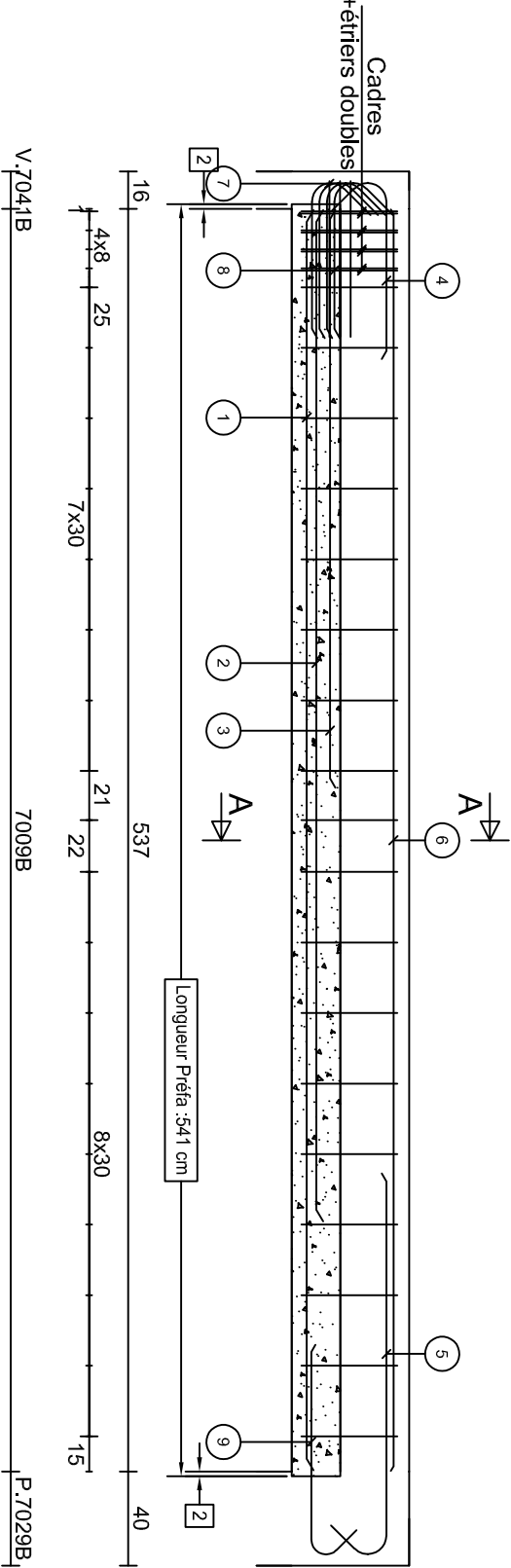
* Aciers non soudés

Poids Préfa : 1.233T

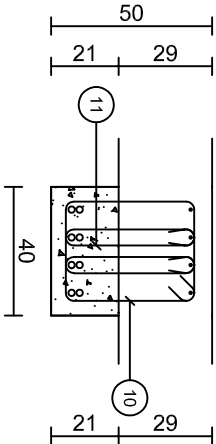
Elevation
Echelle=1/33

64

127



Coupe A-A
Echelle=1/25



Barre	Lg	Forme
1 4HA20	537	537
2 4HA20	431	431
3 4HA16	247	247
4 4HA14	100	163 135° 76
5 4HA14	187	135° 163 66
6 4HA8	537	537
7 3HA20	153	66
8 16HA16	93	135° 16 67
9 4HA12	110	135° 135° 90
10 26HA10	155	32
11 52HA10	104	41
Barre		
HA8	21.5/8.5	
HA10	101.5/62.7	
HA12	4.4/3.9	
HA14	11.5/13.9	
HA16	24.8/39.1	
HA20	43.3/106.8	

INSPIRE	7009B	Eb=4,0 cm	2
ZONE SUD - PH R+1		Eh=5,0 cm	2
Section : 40 x 50ht			
fck= 25 MPa fyk= 500 MPa Classe de ductilité B Coupe feu R 60 Classe d'exposition: XC1			

Vue en plan préfa
Echelle=1/50

