

Hypothèse de calcul :

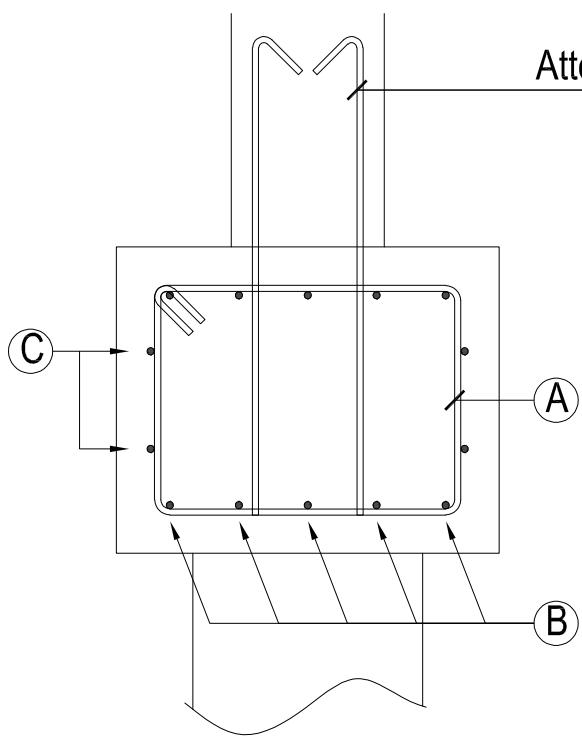
*Béton : C35/45

*Classe XA2, enrobage 5cm

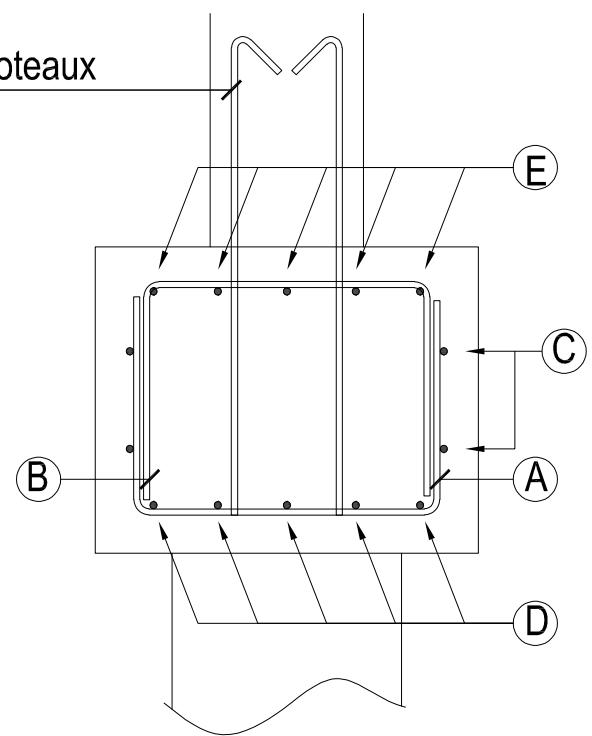
*Acier : B500B [HA]

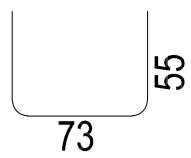
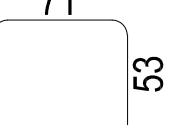
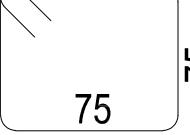
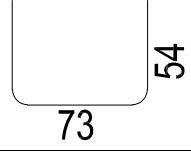
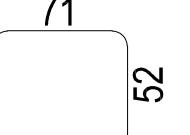
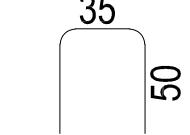
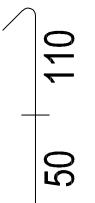
Légende aciers Casque

Disposition cadres fermés

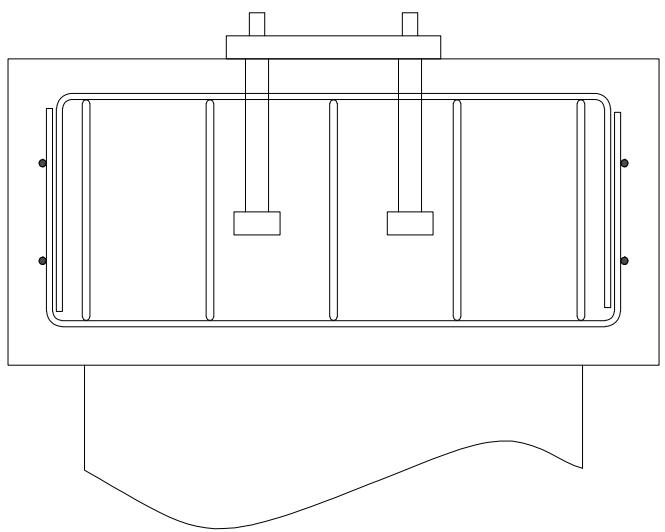
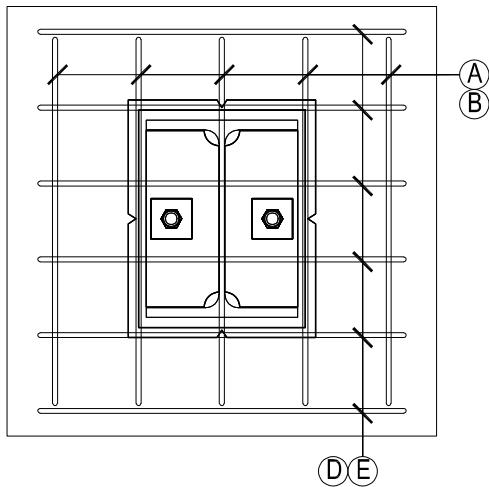


Disposition cadres ouverts

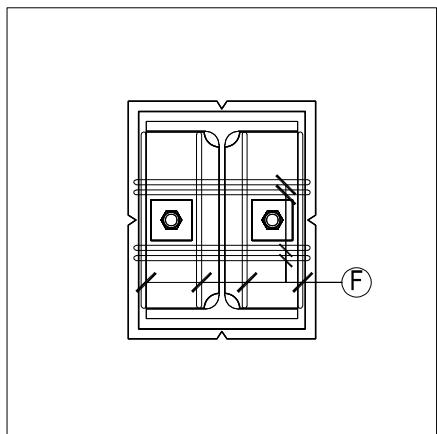


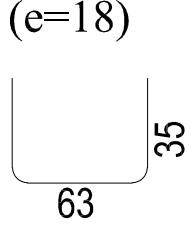
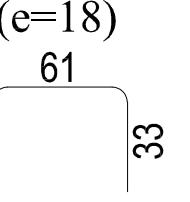
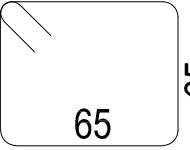
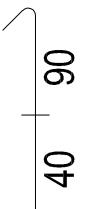
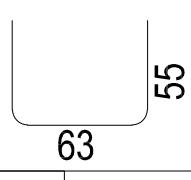
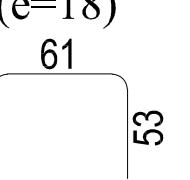
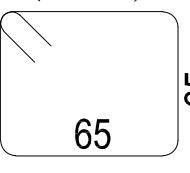
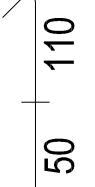
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq01 (85x85x65ht)	6UHA10x183 (e=15) 	6UHA10x177 (e=15) 	4CadHA8x320 (e=11) 	
	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 4x2HA10x175 

Vue en plan
Disposition armature (A;B;D;E)



Vue en plan
Disposition armature (F)

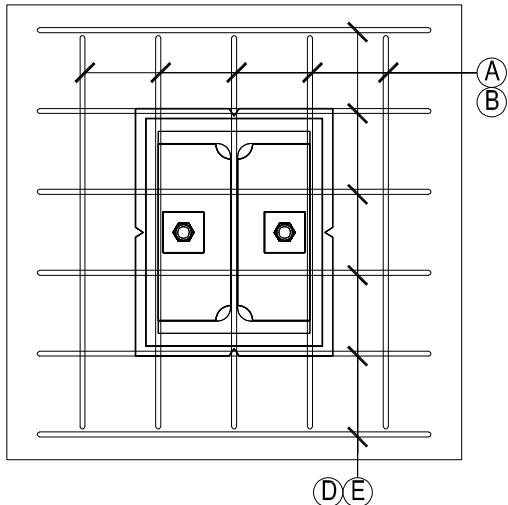


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq02 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 4x2HA10x145 
Casq03 (75x75x65ht)	4UHA10x173 (e=18) 	4UHA10x167 (e=18) 	C 4CadHA8x280 (e=11) 	Poteaux
	D / Inf	E / Sup		Voiles 4x2HA10x175 

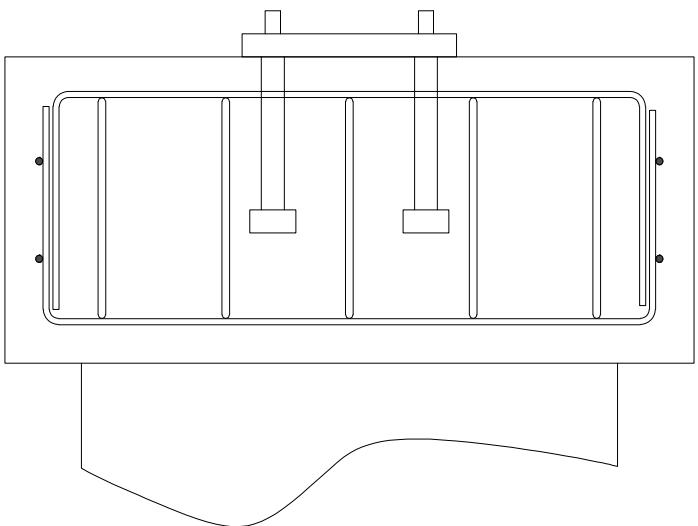
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=15) 	B / Sup 5UHA10x182 (e=15) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq04 (90x90x65ht)	D / Inf 6UHA10x186 (e=16) 	E / Sup 6UHA10x180 (e=16) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 4x2HA10x175

Vue en plan

Disposition armature (A;B;D;E)

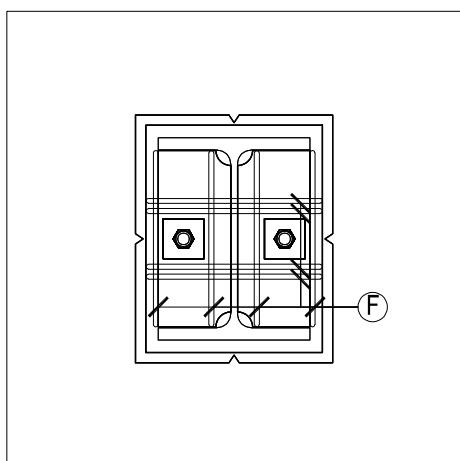


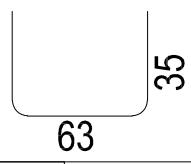
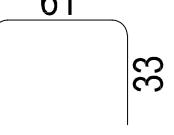
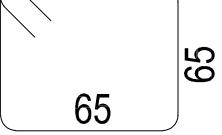
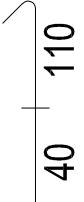
Elévation



Vue en plan

Disposition armature (F)

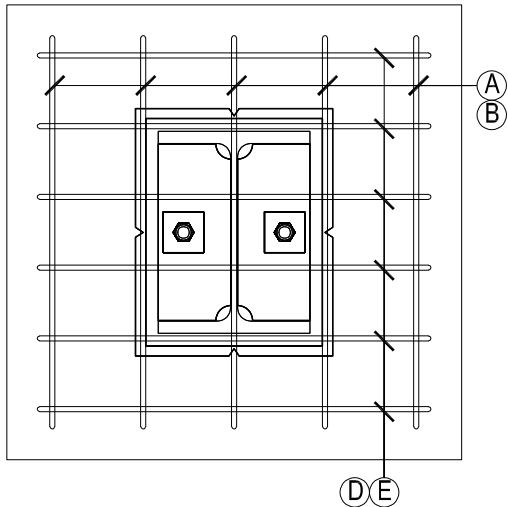


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq05 (75x75x45ht)	6UHA10x133 (e=11) 	6UHA8x127 (e=11) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 4x2HA10x165 

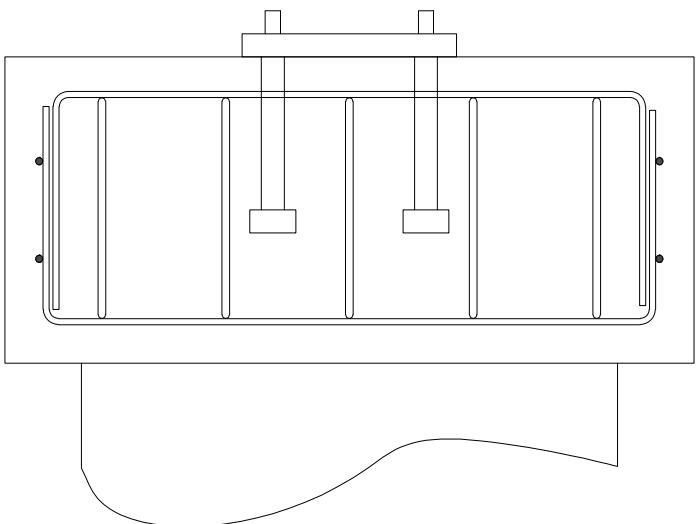
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA12x188 (e=18) 	B / Sup 5UHA12x182 (e=18) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq06 (90x90x65ht)	D / Inf 6UHA10x186 (e=14) 	E / Sup 6UHA10x180 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 4x2HA10x175

Vue en plan

Disposition armature (A;B;D;E)

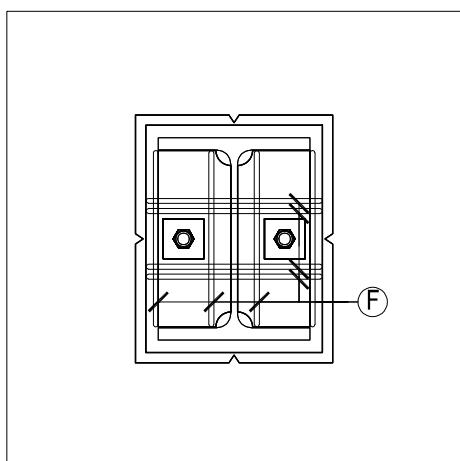


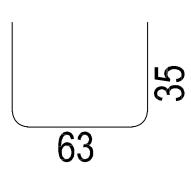
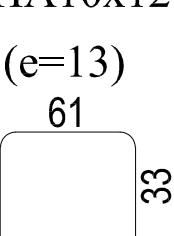
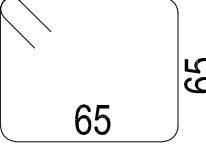
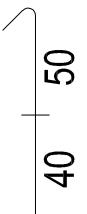
Elévation



Vue en plan

Disposition armature (F)

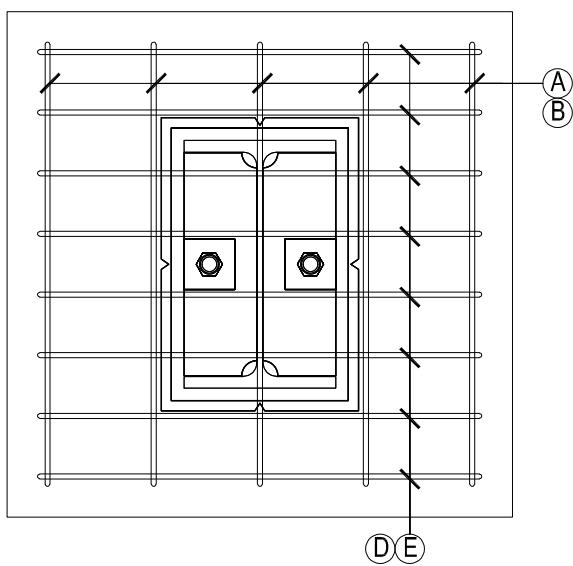


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq07 (75x75x45ht)	5UHA10x133 (e=13) 	5UHA10x127 (e=13) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 4x2HA10x105 

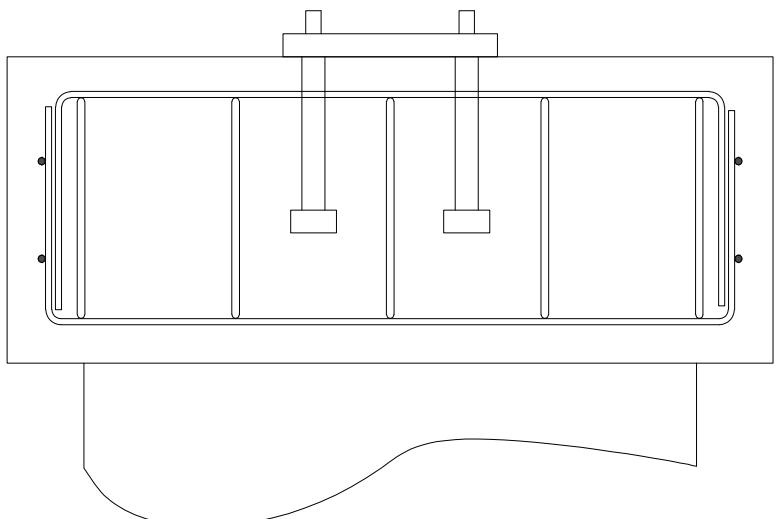
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA12x198 (e=21) 	B / Sup 5UHA12x192 (e=21) 	C 4CadHA8x380 (e=11) 	Poteaux 4x2HA10x158
Casq08 (100x100x65ht)	D / Inf 8UHA10x196 (e=12) 	E / Sup 8UHA10x190 (e=12) 	Armatures vertical F 8UHA14x150 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

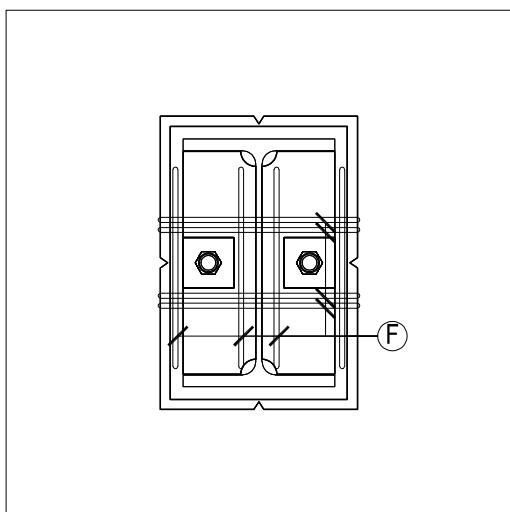


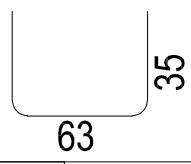
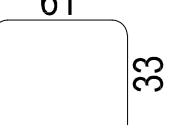
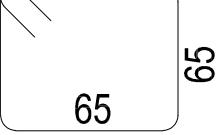
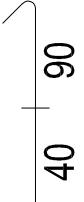
Elévation



Vue en plan

Disposition armature (F)

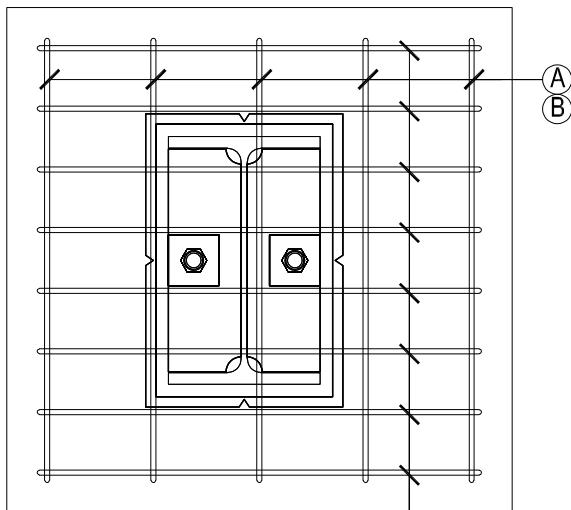


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq09 (75x75x45ht)	6UHA10x133 (e=11) 	6UHA8x127 (e=11) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 4x2HA10x145 

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA12x198 (e=21) 	B / Sup 5UHA12x192 (e=21) 	C 4CadHA8x380 (e=11) 	Poteaux
Casq10 (100x100x65ht)	D / Inf 8UHA10x196 (e=12) 	E / Sup 8UHA8x190 (e=12) 	Armatures vertical F 8UHA14x150 (non soudées) 	Voiles 4x2HA14x150

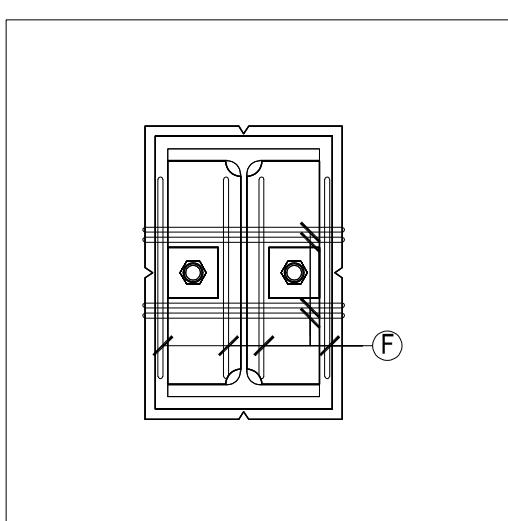
Vue en plan

Disposition armature (A;B;D;E)

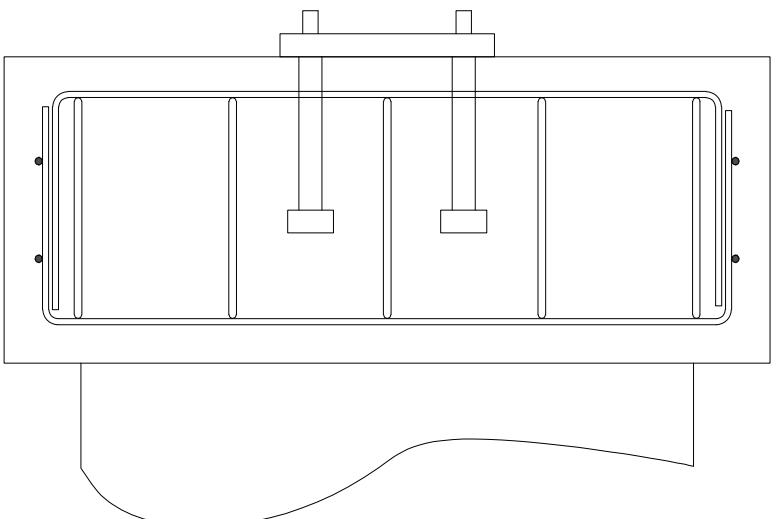


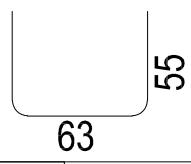
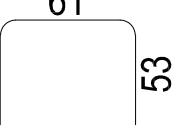
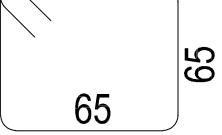
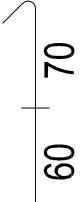
Vue en plan

Disposition armature (F)



Elévation

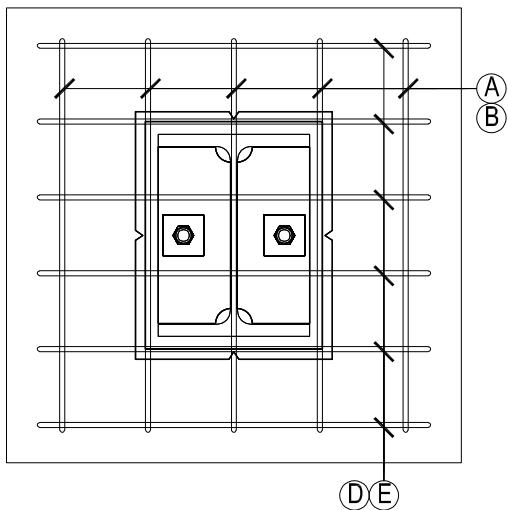


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq11 (75x75x65ht)	5UHA10x173 (e=13) 	5UHA10x167 (e=13) 	4CadHA8x280 (e=11) 	
	D / Inf	E / Sup		Voiles 4x2HA14x150 

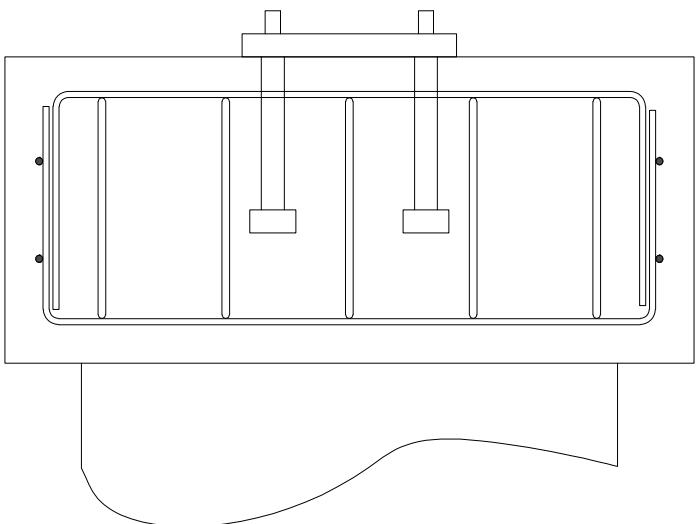
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=17) 	B / Sup 5UHA10x182 (e=17) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq12 (90x90x65ht)	D / Inf 6UHA10x186 (e=15) 	E / Sup 6UHA10x180 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 4x2HA10x175

Vue en plan

Disposition armature (A;B;D;E)

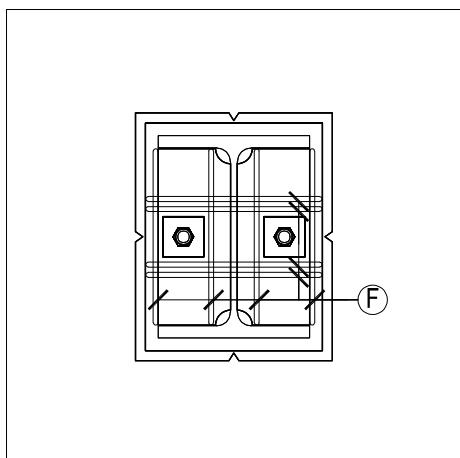


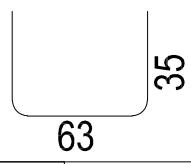
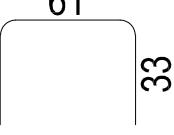
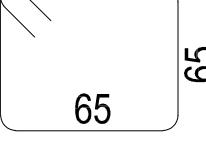
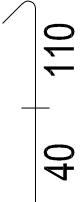
Elévation



Vue en plan

Disposition armature (F)

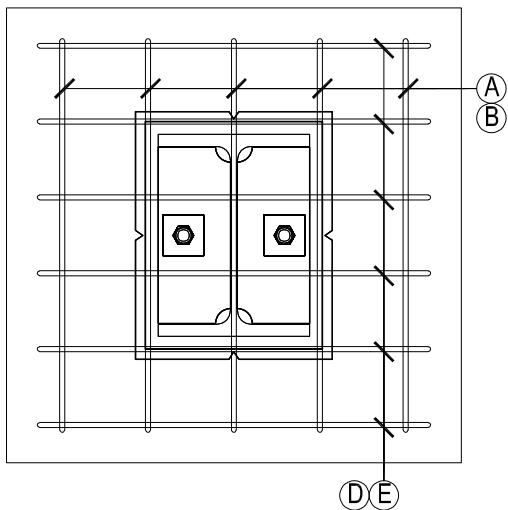


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq13 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA8x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 4x2HA10x165 

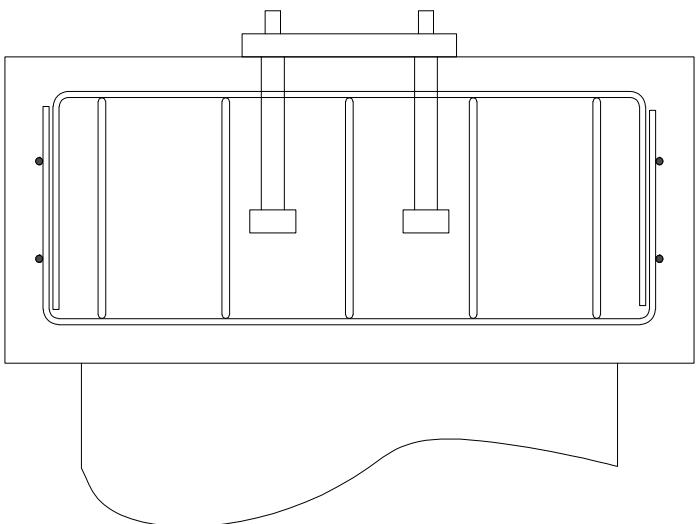
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=17) 	B / Sup 5UHA10x182 (e=17) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq14 (90x90x65ht)	D / Inf 6UHA10x186 (e=15) 	E / Sup 6UHA10x180 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 2x2HA10x115

Vue en plan

Disposition armature (A;B;D;E)

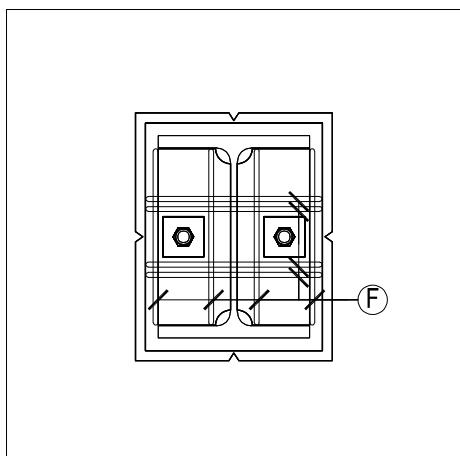


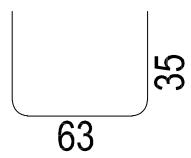
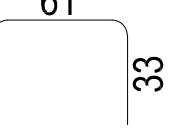
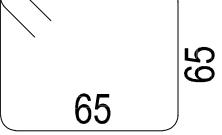
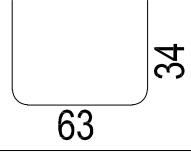
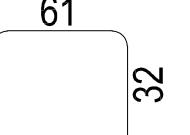
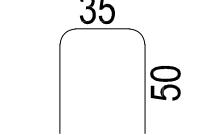
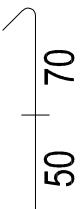
Elévation

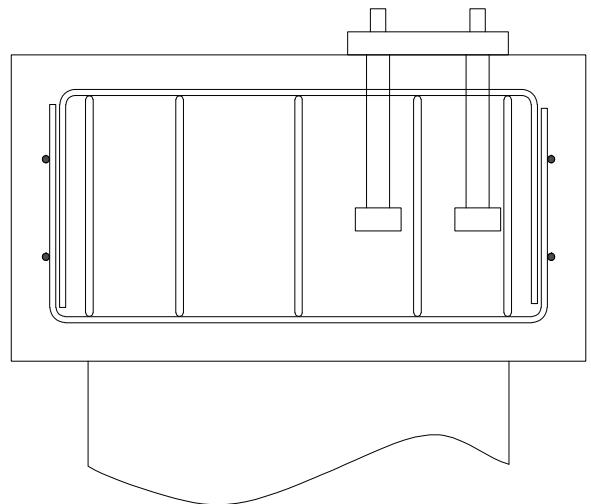
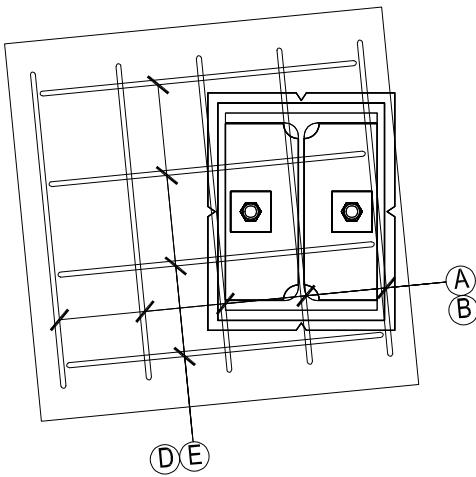


Vue en plan

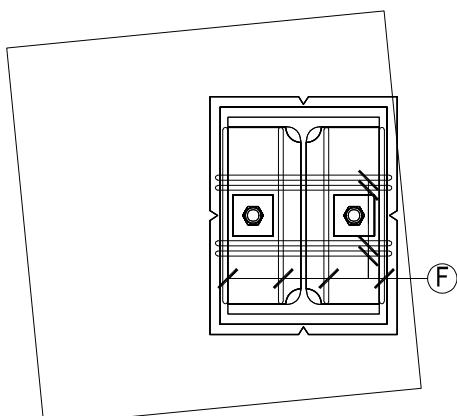
Disposition armature (F)

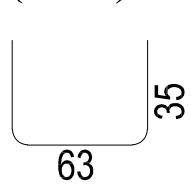
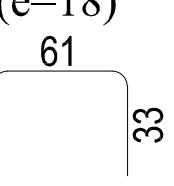
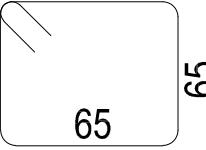
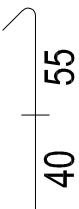
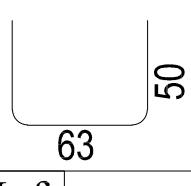
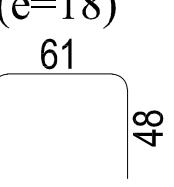
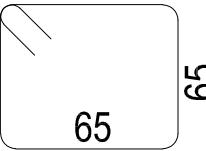
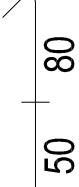


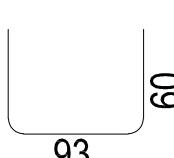
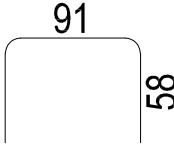
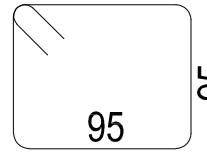
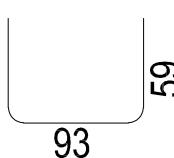
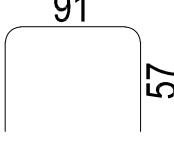
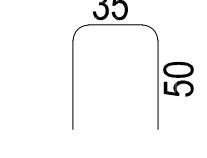
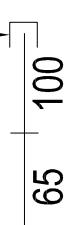
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 4UHA10x133 (e=18) 	B / Sup 4UHA10x127 (e=18) 	C 4CadHA8x280 (e=11) 	Poteaux
Casq15 (75x75x65ht)	D / Inf 4UHA10x131 (e=18) 	E / Sup 4UHA10x125 (e=18) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles 3x2HA10x135 
	<i>Vue en plan</i> <i>Disposition armature (A;B;D;E)</i>		<i>Elévation</i>	



Vue en plan
Disposition armature (F)

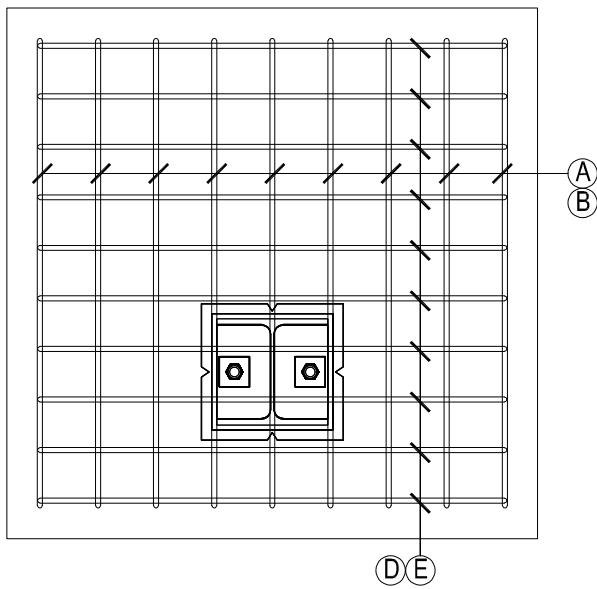


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq16 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 3x2HA10x110 
Casq17 (75x75x60ht)	4UHA10x163 (e=18) 	4UHA10x157 (e=18) 	C 4CadHA8x280 (e=10) 	Poteaux
	D / Inf	E / Sup		Voiles 3x2HA10x145 

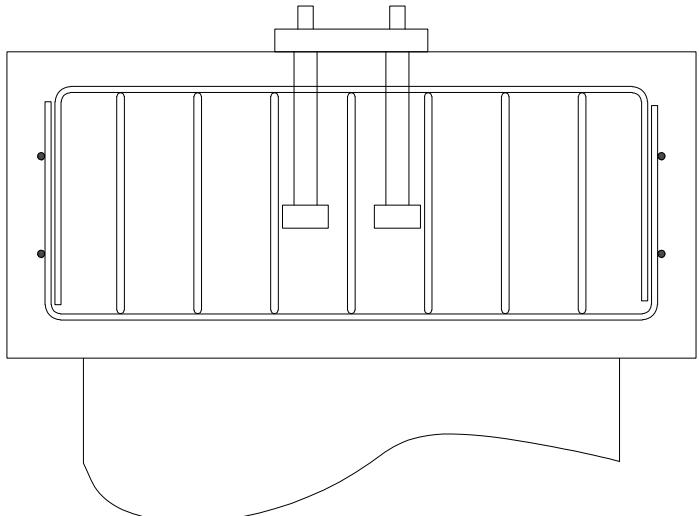
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 9UHA10x213 (e=11) 	B / Sup 9UHA10x207 (e=11) 	C 5CadHA8x400 (e=10) 	Poteaux
Casq18 (105x105x70ht)	D / Inf 10UHA12x211 (e=10) 	E / Sup 10UHA10x205 (e=10) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 3x2HA16x165 Bouchons sécurité 

Vue en plan

Disposition armature (A;B;D;E)

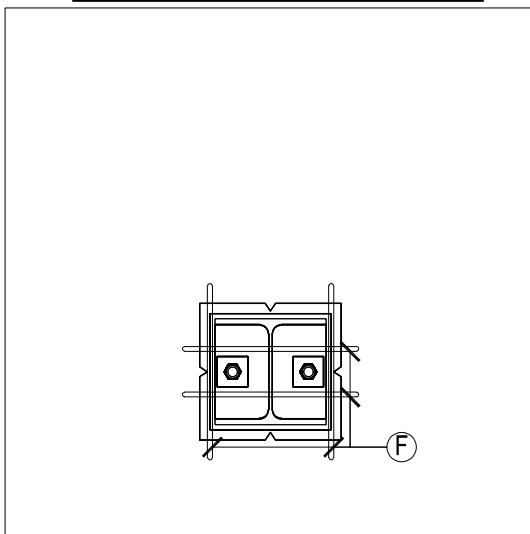


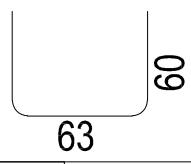
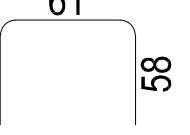
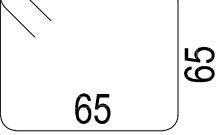
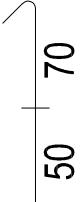
Elévation



Vue en plan

Disposition armature (F)

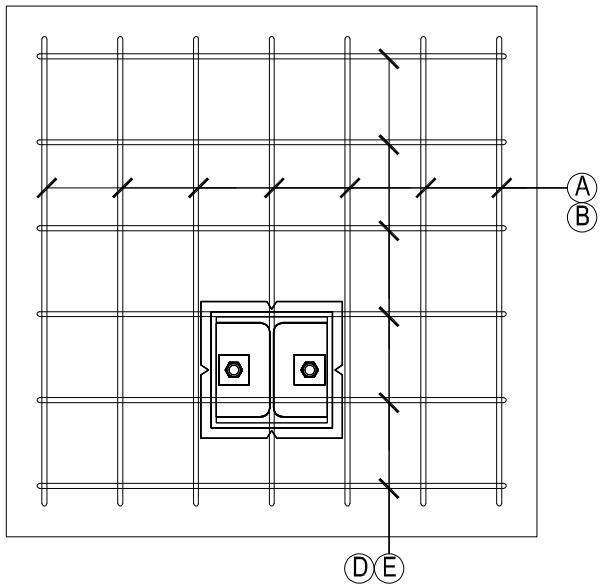


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq19 (75x75x70ht)	4UHA10x183 (e=18) 	4UHA10x177 (e=18) 	5CadHA8x280 (e=10) 	
	D / Inf	E / Sup		Voiles 3x2HA10x135 

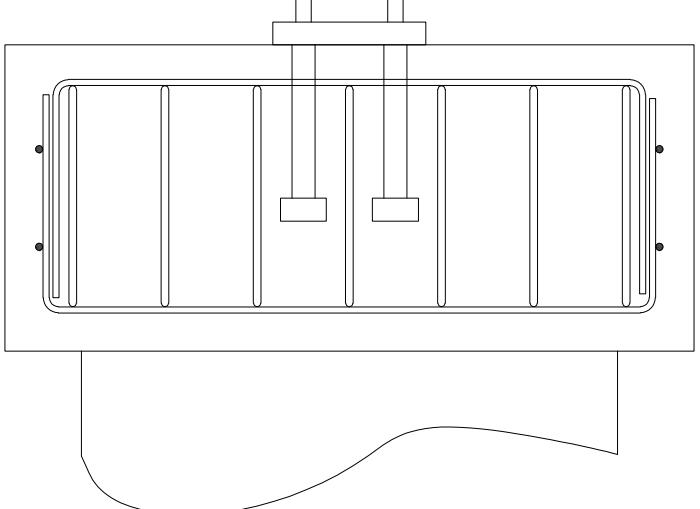
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA10x213 (e=15) 	B / Sup 7UHA10x207 (e=15) 	C 5CadHA8x400 (e=10) 	Poteaux
Casq20 (105x105x70ht)	D / Inf 6UHA10x211 (e=17) 	E / Sup 6UHA10x205 (e=17) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 5x2HA10x135

Vue en plan

Disposition armature (A;B;D;E)

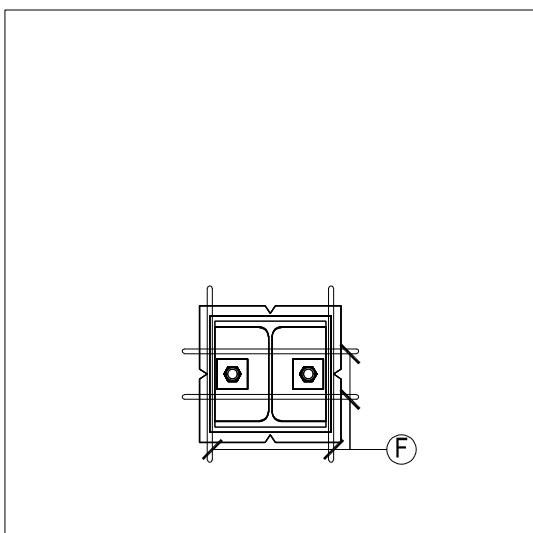


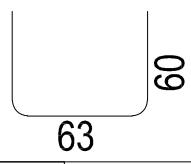
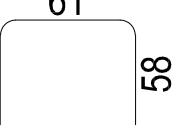
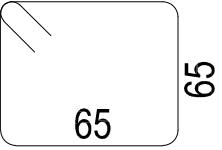
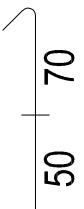
Elévation

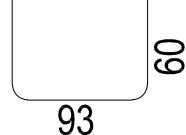
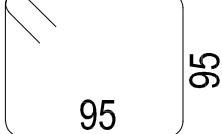
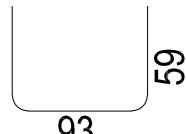
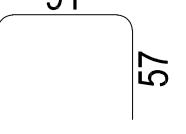
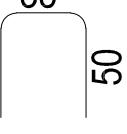
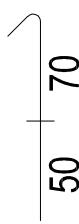


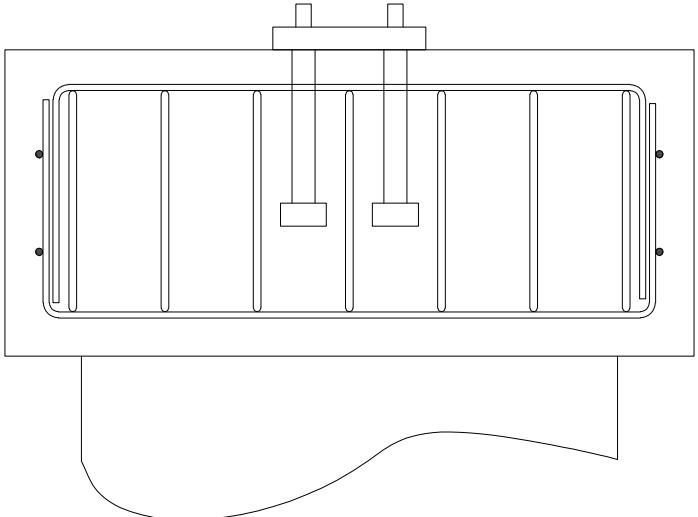
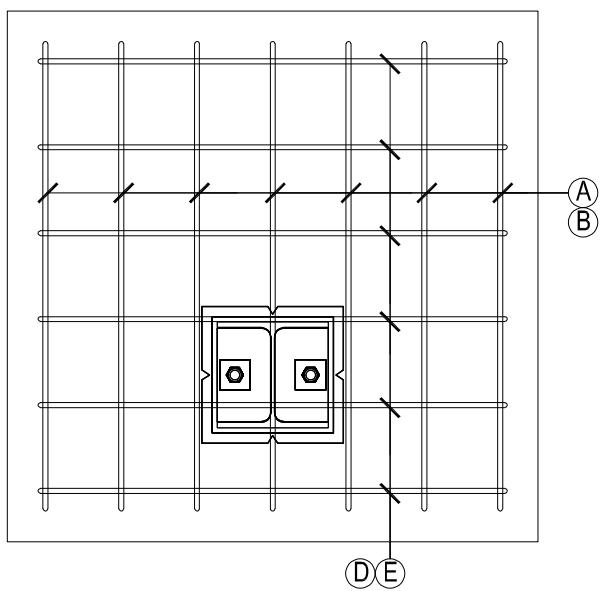
Vue en plan

Disposition armature (F)

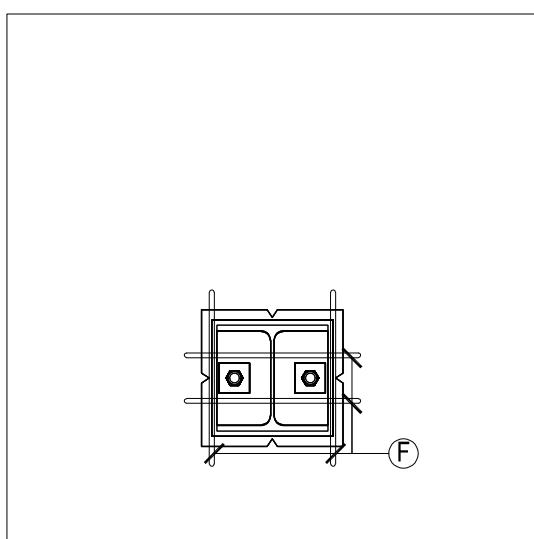


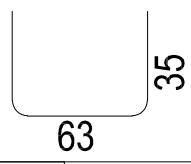
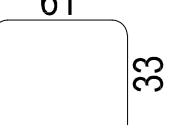
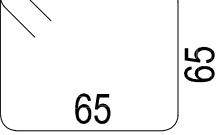
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq21 (75x75x70ht)	4UHA10x183 (e=18) 	4UHA10x177 (e=18) 	5CadHA8x280 (e=10) 	
	D / Inf	E / Sup		Voiles 3x2HA10x135 

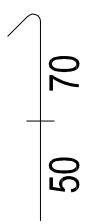
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA10x213 (e=15) 	B / Sup 7UHA10x207 (e=15) 	C 5CadHA8x400 (e=10) 	Poteaux
Casq22 (105x105x70ht)	D / Inf 6UHA10x211 (e=17) 	E / Sup 6UHA10x205 (e=17) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 3x2HA10x135 
	<u>Vue en plan</u> <u>Disposition armature (A;B;D;E)</u>		<u>Elévation</u>	



Vue en plan
Disposition armature (F)

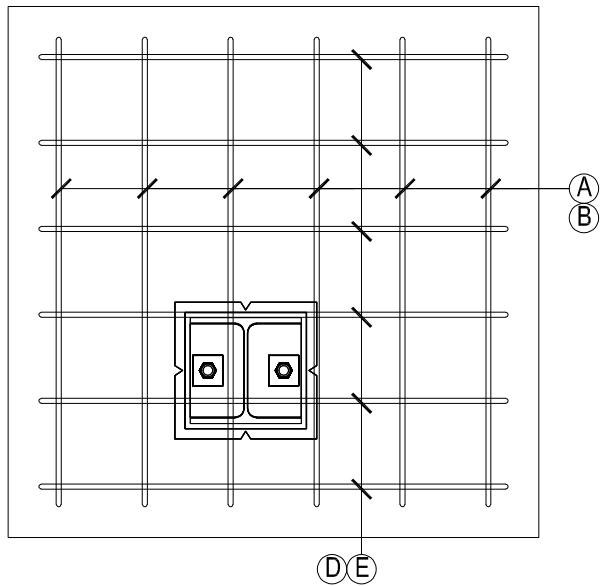


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq23 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=10) 	
	D / Inf	E / Sup		Voiles 3x2HA10x125 

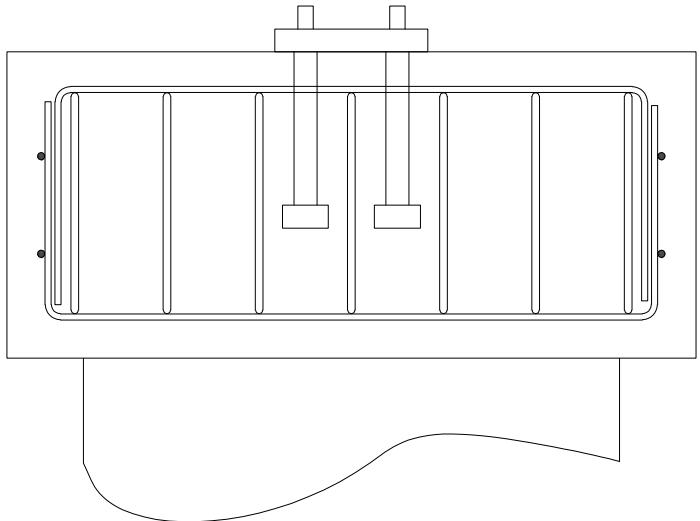
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 6UHA10x213 (e=17) 	B / Sup 6UHA10x207 (e=17) 	C 5CadHA8x400 (e=10) 	Poteaux
Casq24 (105x105x70ht)	D / Inf 6UHA10x211 (e=17) 	E / Sup 6UHA10x205 (e=17) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 5x2HA10x135 

Vue en plan

Disposition armature (A;B;D;E)

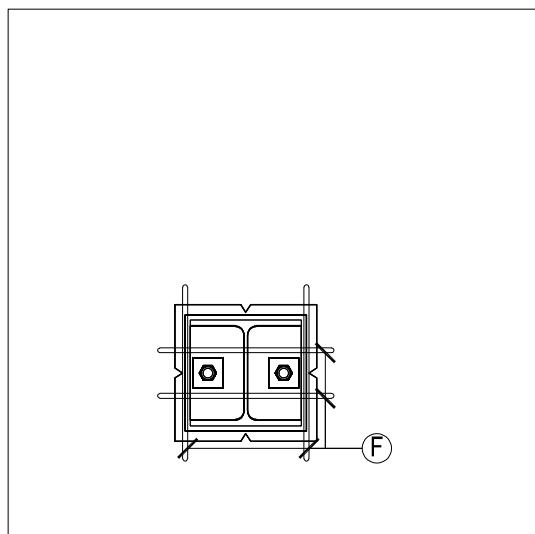


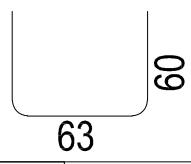
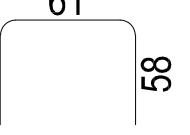
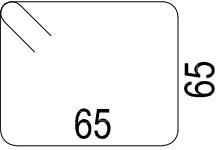
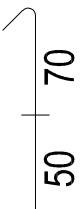
Elévation



Vue en plan

Disposition armature (F)

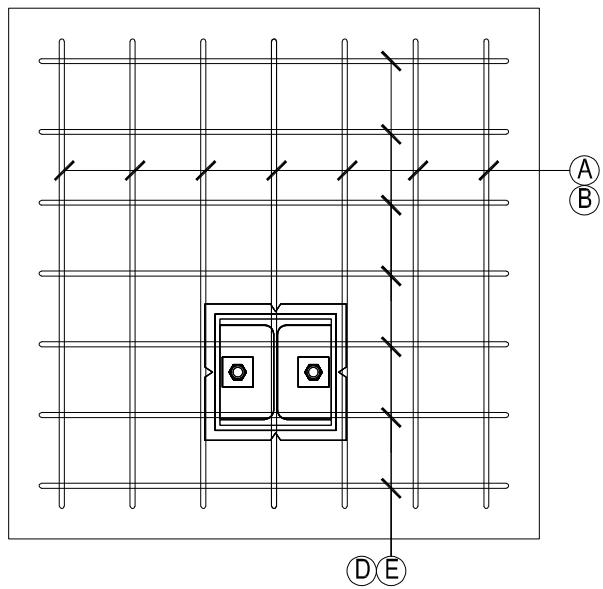


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq25 (75x75x70ht)	4UHA10x183 (e=18) 	4UHA10x177 (e=18) 	5CadHA8x280 (e=10) 	
	D / Inf	E / Sup		Voiles 3x2HA10x135 

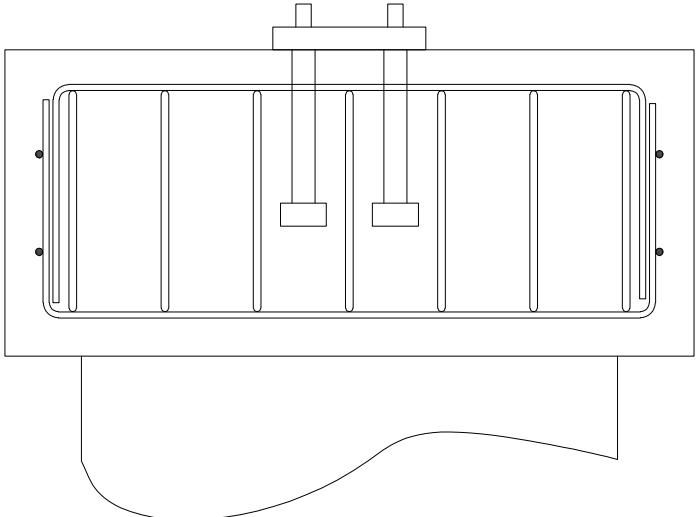
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA10x213 (e=14) 	B / Sup 7UHA10x207 (e=14) 	C 5CadHA8x280 (e=10) 	Poteaux
Casq26 (105x105x70ht)	D / Inf 7UHA10x211 (e=14) 	E / Sup 7UHA10x205 (e=14) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 5x2HA10x135

Vue en plan

Disposition armature (A;B;D;E)

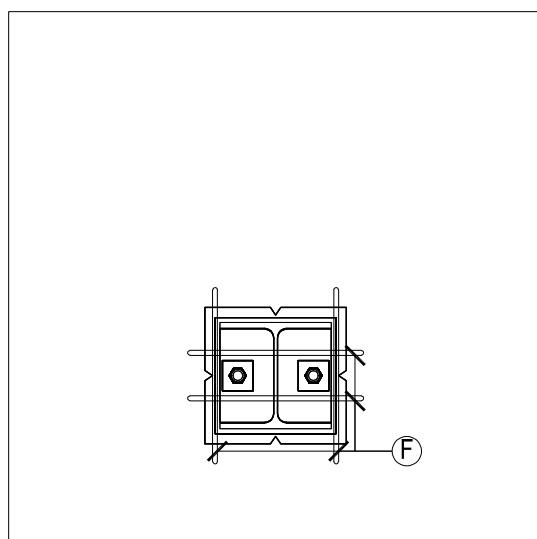


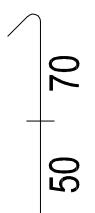
Elévation



Vue en plan

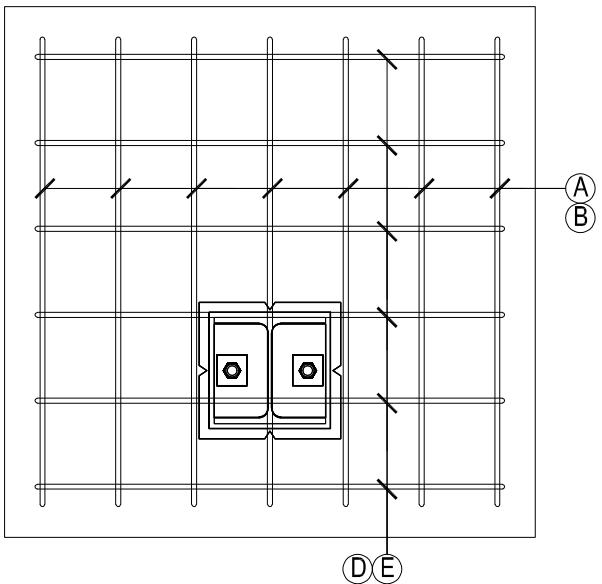
Disposition armature (F)



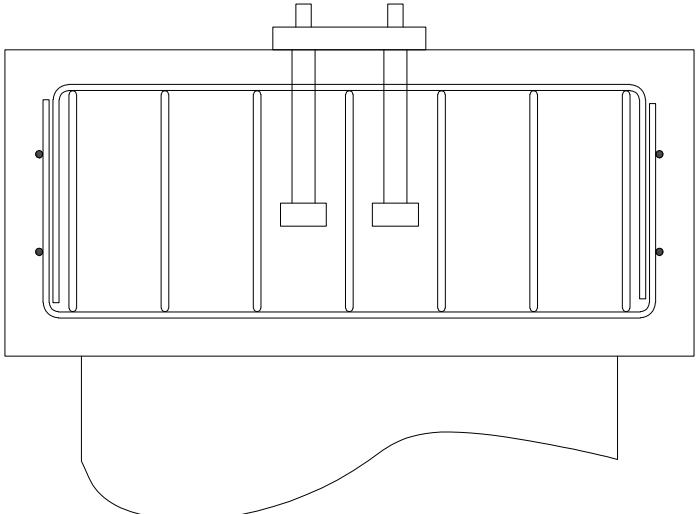
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA10x193 (e=15) 	B / Sup 7UHA10x187 (e=15) 	C 5CadHA8x400 (e=10) 	Poteaux
Casq27 (105x105x60ht)	D / Inf 6UHA10x191 (e=17) 	E / Sup 6UHA10x185 (e=17) 	Armatures vertical F 4UHA10x135 (non soudées) 	Voiles 2x2HA10x135 

Vue en plan

Disposition armature (A;B;D;E)

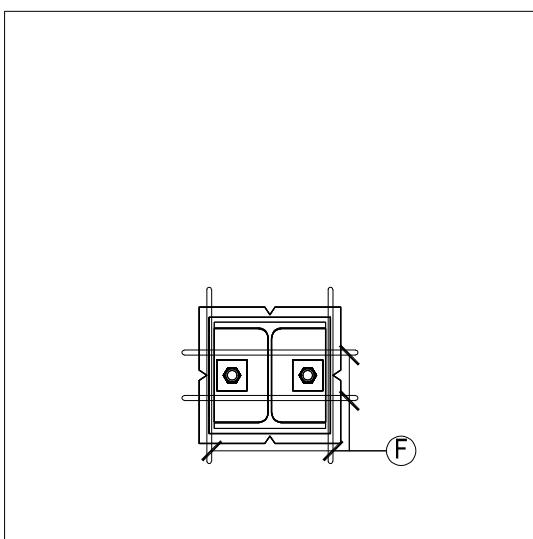


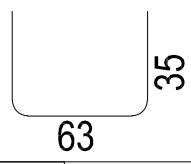
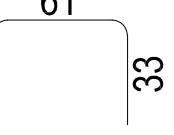
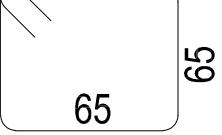
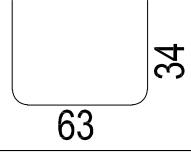
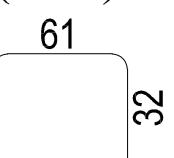
Elévation

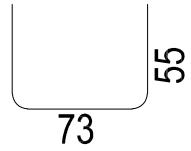
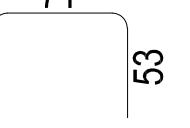
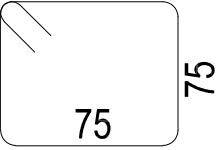
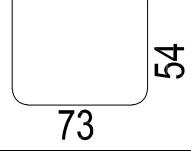
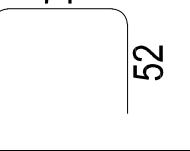
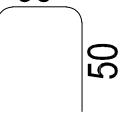


Vue en plan

Disposition armature (F)

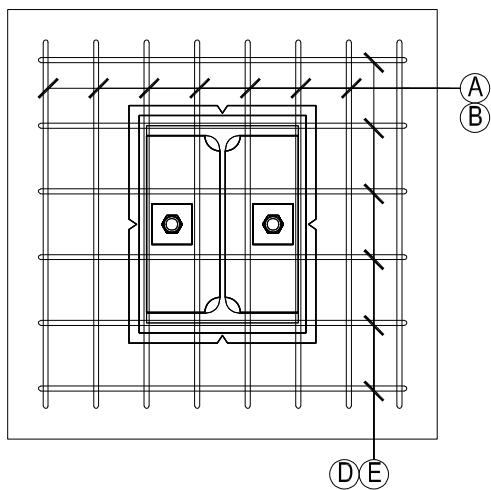


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq28 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	5CadHA8x280 (e=10) 	
	D / Inf	E / Sup		Voiles
	4UHA10x131 (e=18) 	4UHA10x125 (e=18) 		

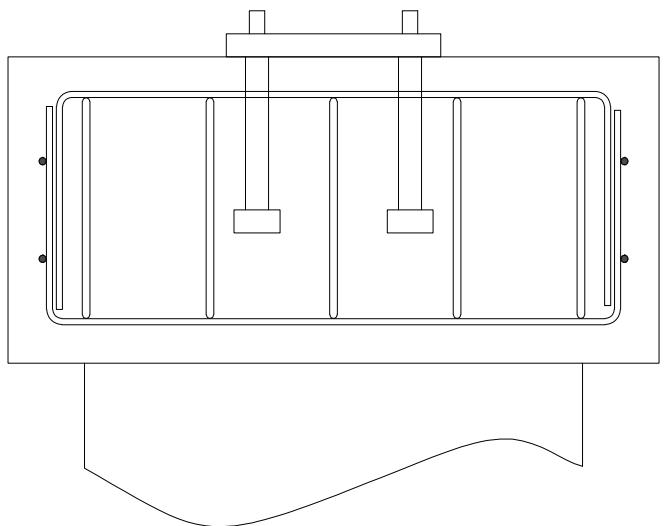
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 8UHA8x183 (e=10) 	B / Sup 8UHA8x177 (e=10) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq30 (85x85x65ht)	D / Inf 6UHA10x181 (e=13) 	E / Sup 6UHA10x175 (e=13) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

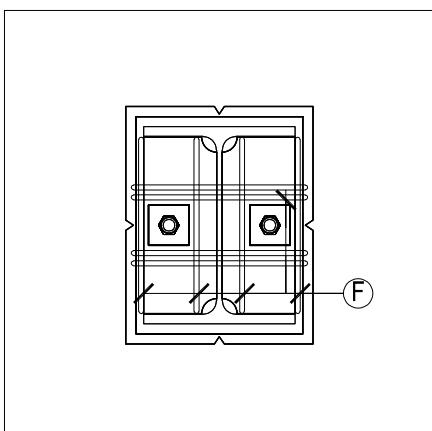


Elévation



Vue en plan

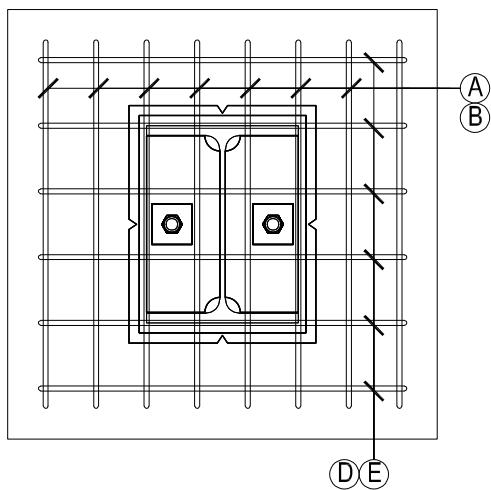
Disposition armature (F)



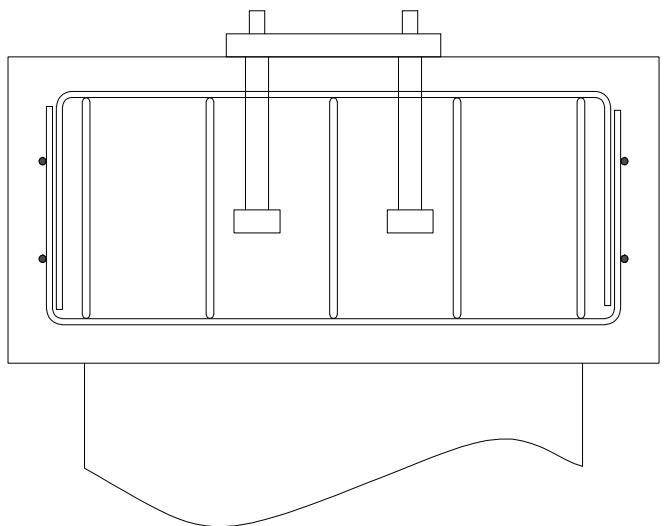
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 8UHA8x183 (e=10) 	B / Sup 8UHA8x177 (e=10) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq31 (85x85x65ht)	D / Inf 6UHA10x181 (e=13) 	E / Sup 6UHA10x175 (e=13) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

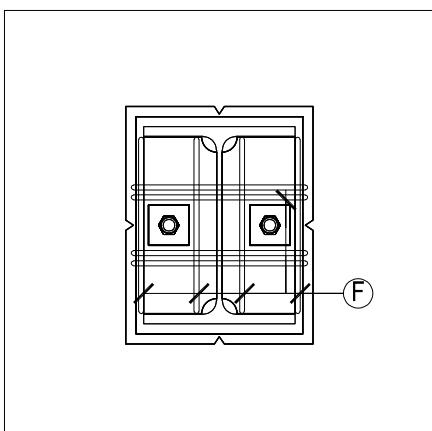


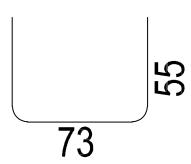
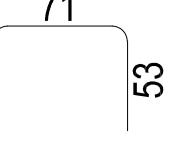
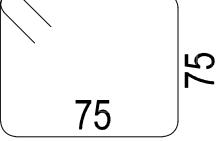
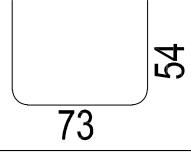
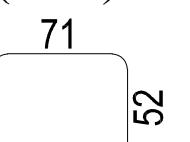
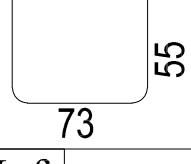
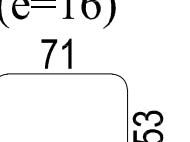
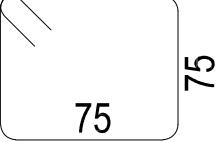
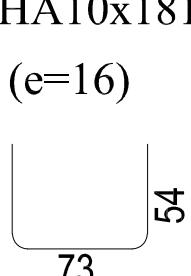
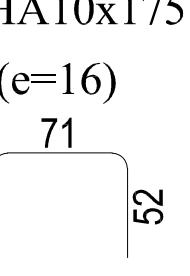
Elévation

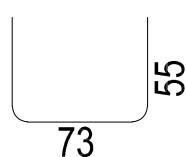
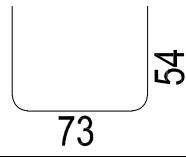
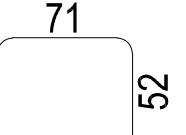
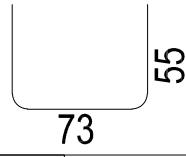
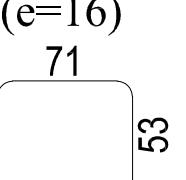
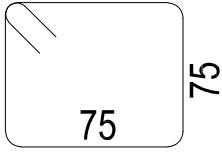
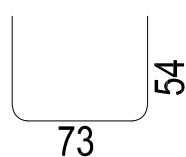
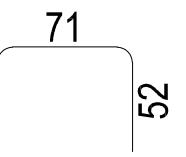


Vue en plan

Disposition armature (F)



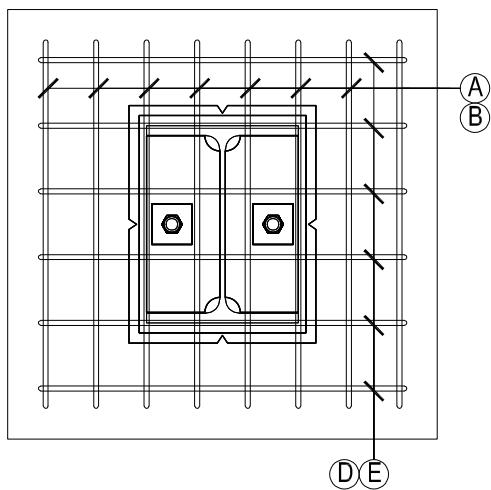
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq32</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq33</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq34</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles
<i>Casq35</i> (85x85x65ht)	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles

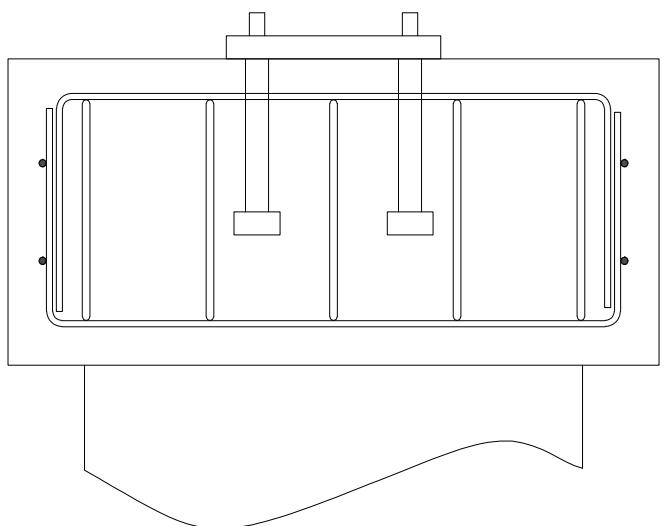
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 8UHA8x183 (e=10) 	B / Sup 8UHA8x177 (e=10) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq36 (85x85x65ht)	D / Inf 6UHA10x181 (e=13) 	E / Sup 6UHA10x175 (e=13) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

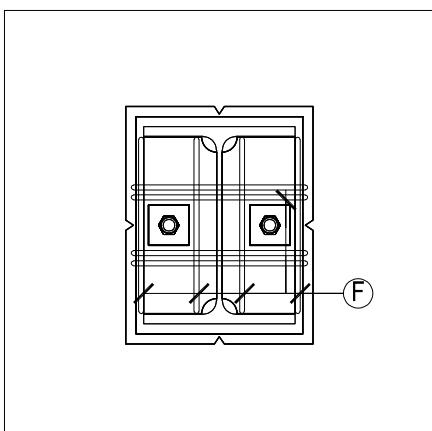


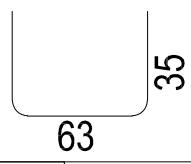
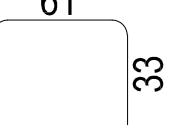
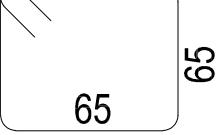
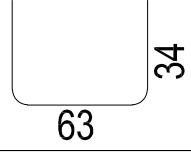
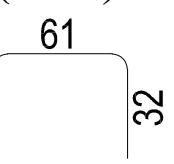
Elévation

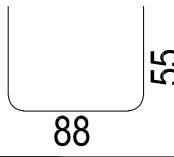
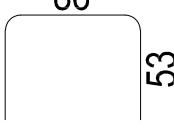
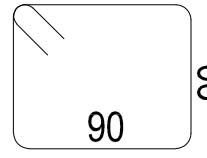
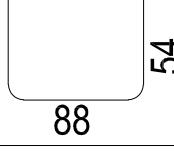
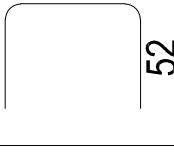
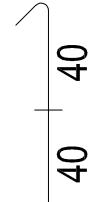


Vue en plan

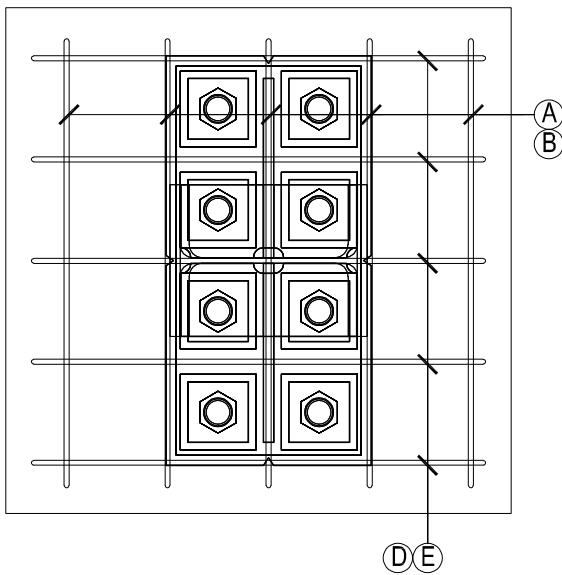
Disposition armature (F)



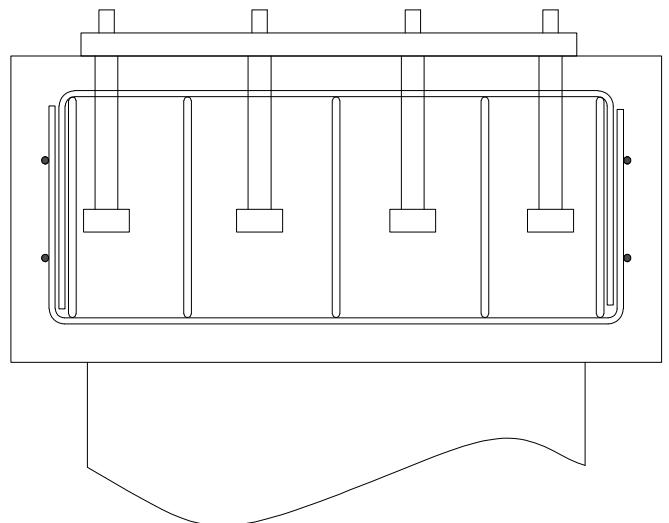
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq39 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles
	4UHA10x131 (e=18) 	4UHA10x125 (e=18) 		

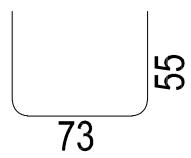
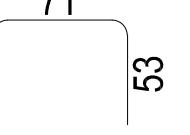
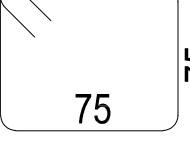
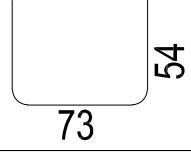
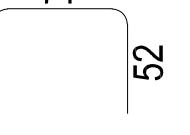
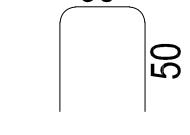
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 6UHA16x158 (e=20) 	B / Sup 6UHA16x152 (e=20) 	C 4CadHA8x380 (e=11) 	Poteaux
Casq40 (100x100x65ht)	D / Inf 6UHA16x158 (e=20) 	E / Sup 6UHA16x152 (e=20) 		Longrine 4x2HA8x95 

Vue en plan
Disposition armature (A;B;D;E)



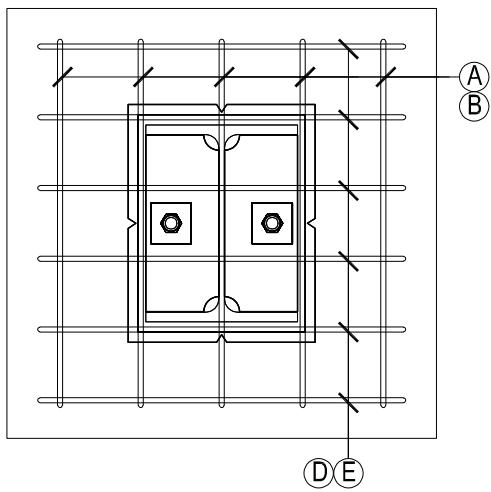
Elévation



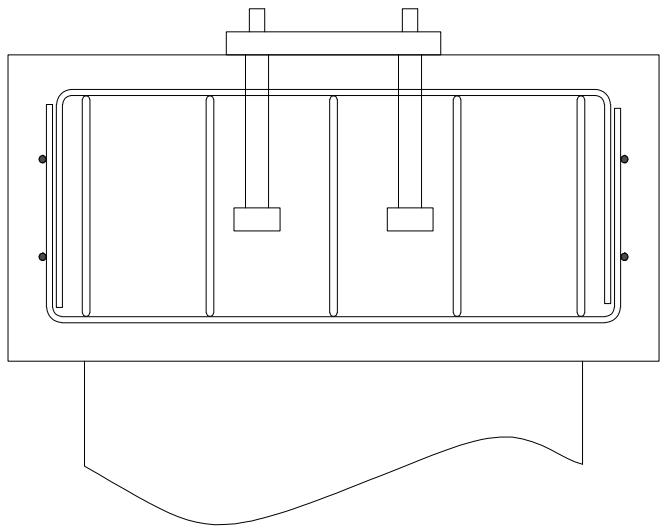
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq41 (85x85x65ht)	D / Inf 6UHA10x181 (e=14) 	E / Sup 6UHA10x175 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

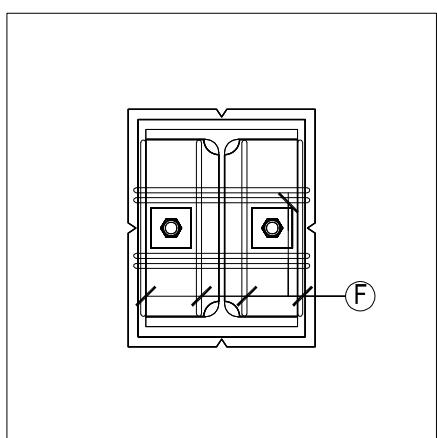


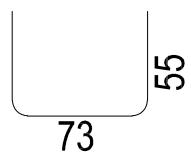
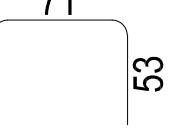
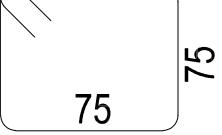
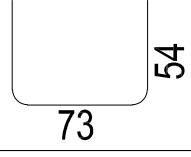
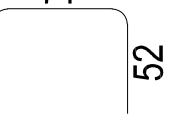
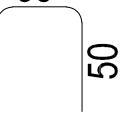
Elévation



Vue en plan

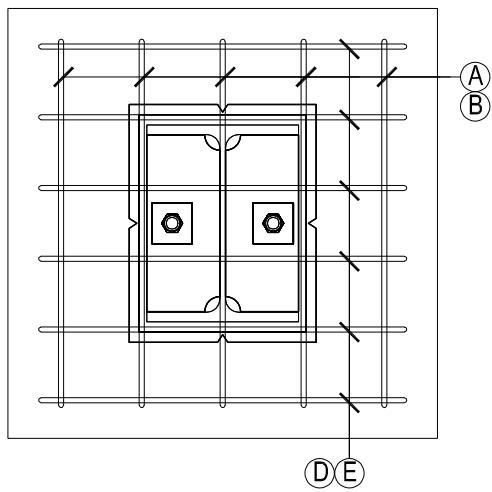
Disposition armature (F)



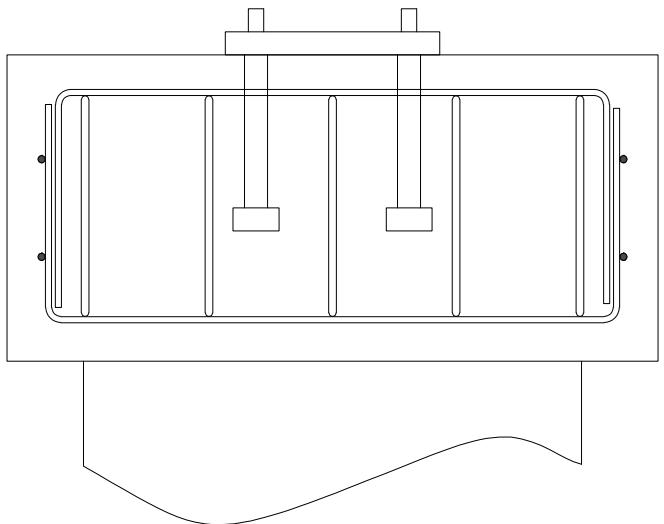
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq42 (85x85x65ht)	D / Inf 6UHA10x181 (e=14) 	E / Sup 6UHA10x175 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

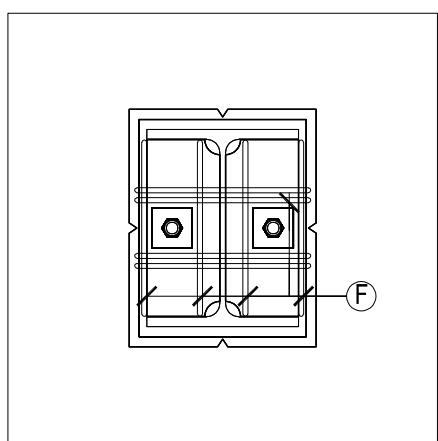


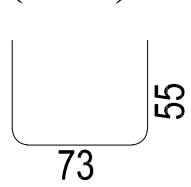
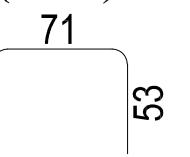
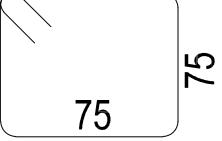
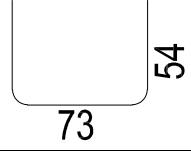
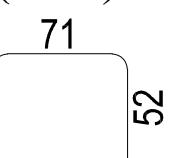
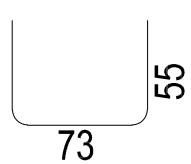
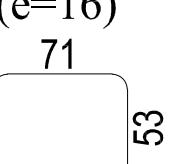
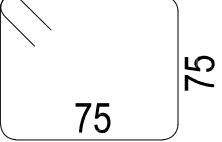
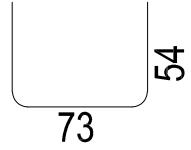
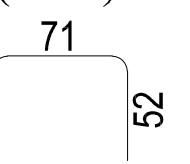
Elévation

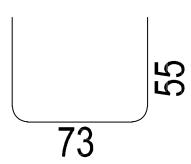
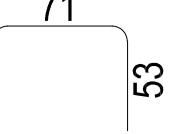
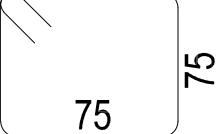
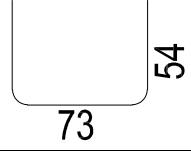
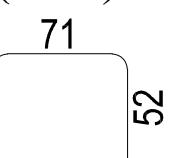


Vue en plan

Disposition armature (F)



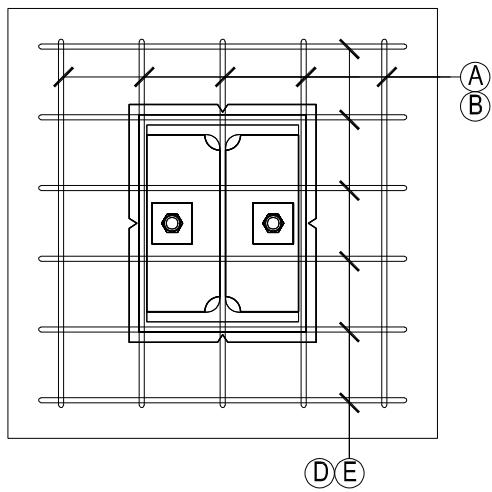
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq43 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq45 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		
	A / Inf	B / Sup	C	Poteaux
Casq45 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq45 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq47 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		

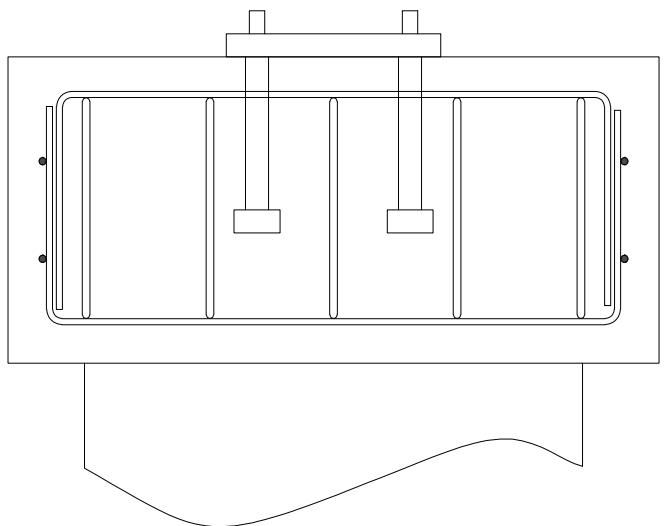
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq49 (85x85x65ht)	D / Inf 6UHA10x181 (e=14) 	E / Sup 6UHA10x175 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

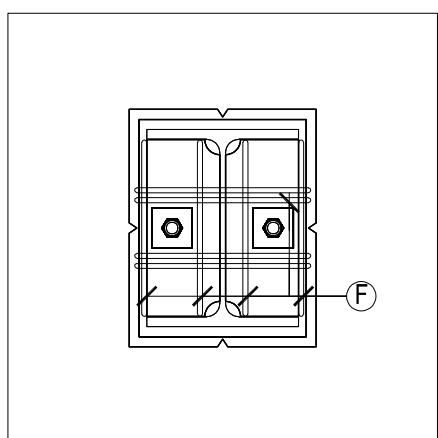


Elévation

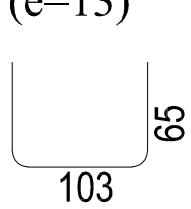
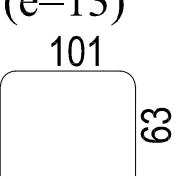
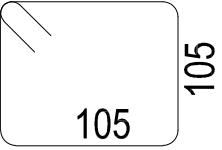
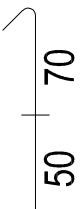
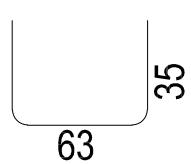
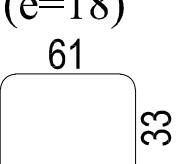
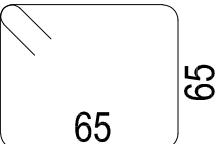
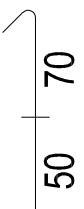


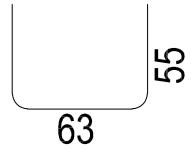
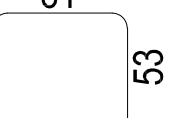
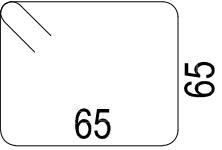
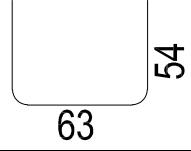
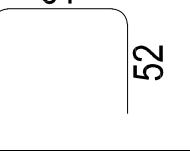
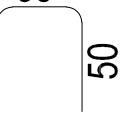
Vue en plan

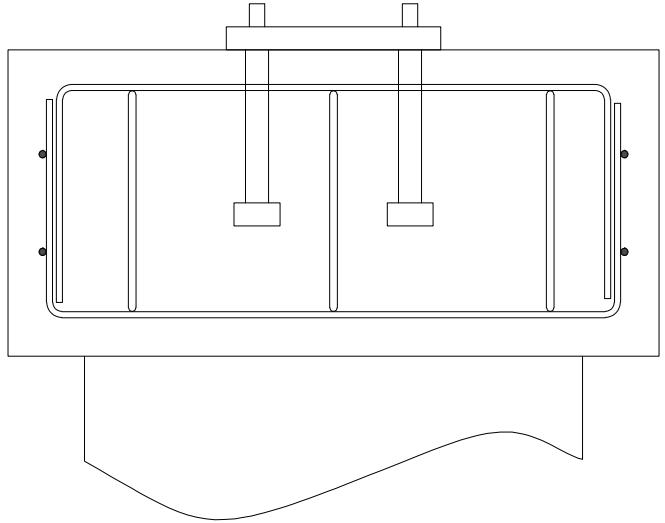
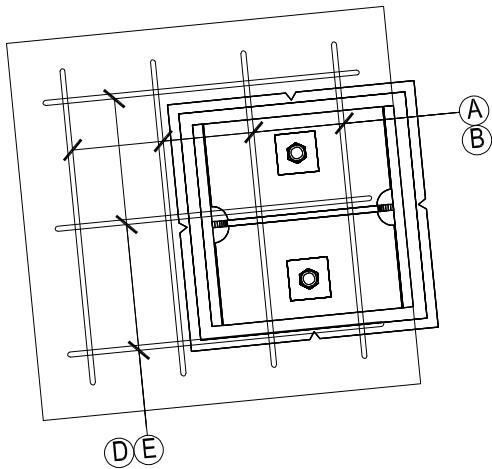
Disposition armature (F)



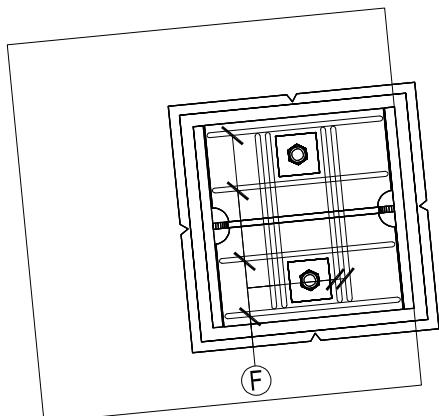
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq50 (85x85x75ht)	6UHA12x203 (e=13) 	6UHA10x197 (e=13) 	5CadHA8x320 (e=10) 	
	D / Inf	E / Sup		Voiles 4x2HA10x135
Casq51 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	C 3CadHA8x280 (e=10) 	Poteaux
	D / Inf	E / Sup		Voiles 2x2HA10x135

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq52 (115x115x75ht)	8UHA10x233 (e=13) 	8UHA12x227 (e=13) 	5CadHA8x440 (e=10) 	
	D / Inf	E / Sup		Voiles 5x2HA10x135 
Casq53 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	C 3CadHA8x280 (e=8) 	Poteaux
	D / Inf	E / Sup		Voiles 5x2HA10x135 

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 4UHA10x173 (e=18) 	B / Sup 4UHA10x167 (e=18) 	C 4CadHA8x280 (e=11) 	Poteaux
Casq55 (75x75x65ht)	D / Inf 3UHA12x171 (e=25) 	E / Sup 3UHA12x165 (e=25) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles
	<i>Vue en plan</i> <i>Disposition armature (A;B;D;E)</i>		<i>Elévation</i>	



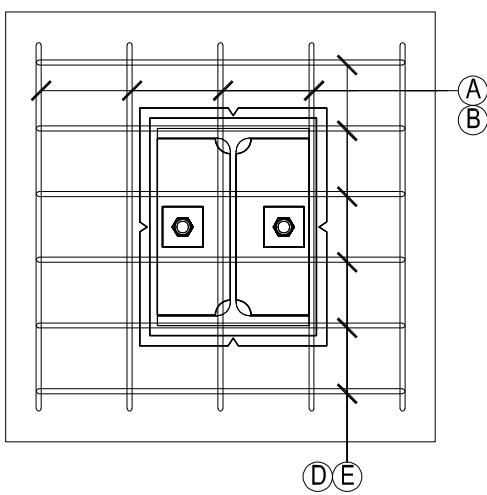
Vue en plan
Disposition armature (F)



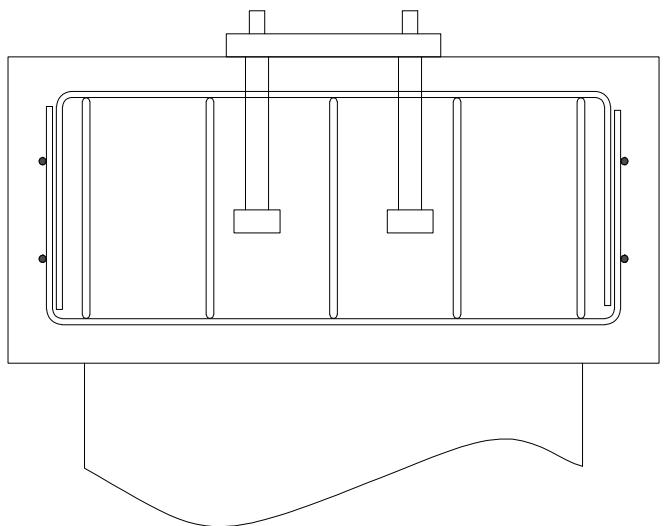
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA12x183 (e=18) 	B / Sup 5UHA12x177 (e=18) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq57 (85x85x65ht)	D / Inf 6UHA10x181 (e=13) 	E / Sup 6UHA10x175 (e=13) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

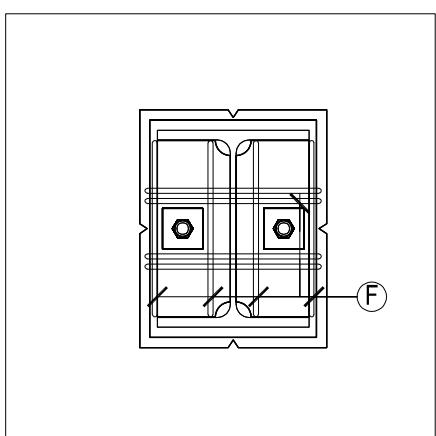


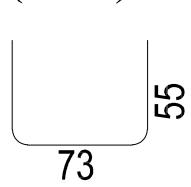
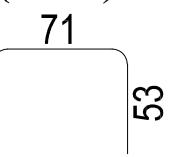
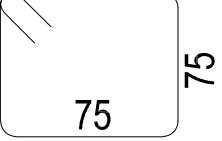
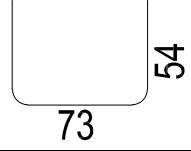
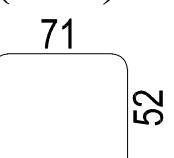
Elévation

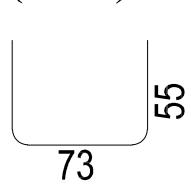
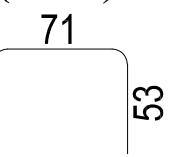
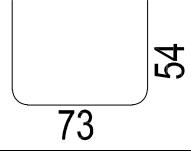
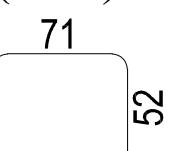


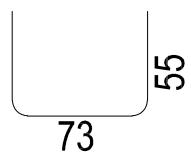
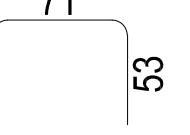
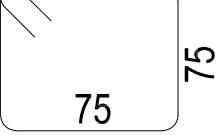
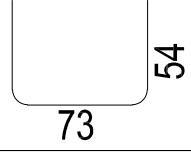
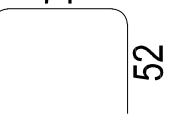
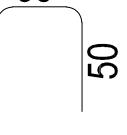
Vue en plan

Disposition armature (F)



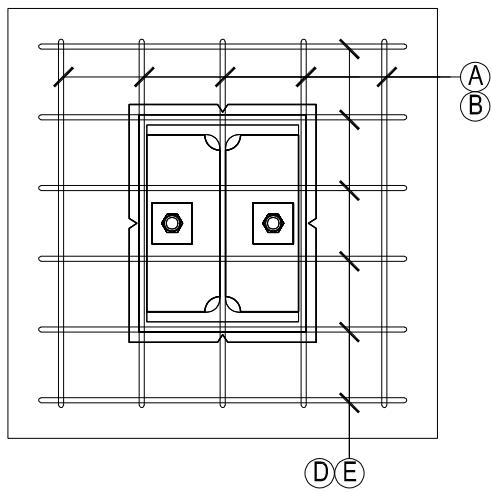
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq58 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq60 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		
	A / Inf	B / Sup	C	Poteaux

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq61 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq62 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		
	D / Inf	E / Sup	C	Poteaux

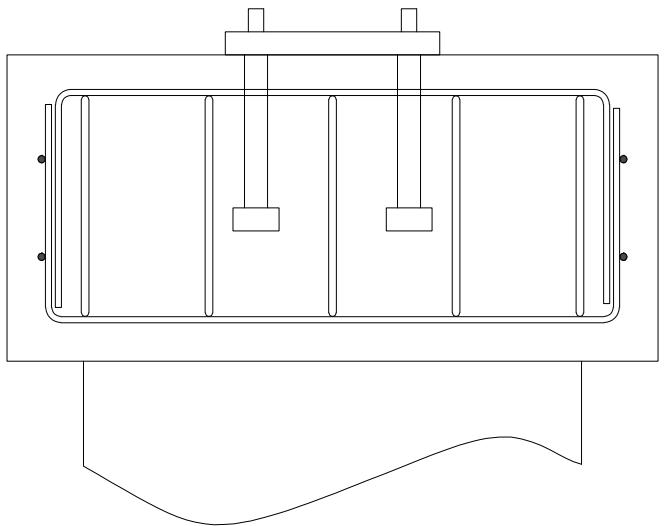
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
Casq63 (85x85x65ht)	D / Inf 6UHA10x181 (e=14) 	E / Sup 6UHA10x175 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

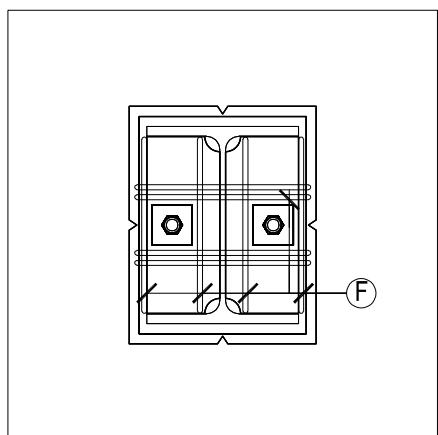


Elévation

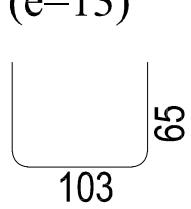
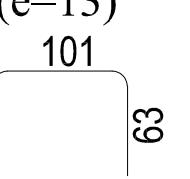
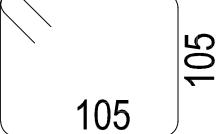
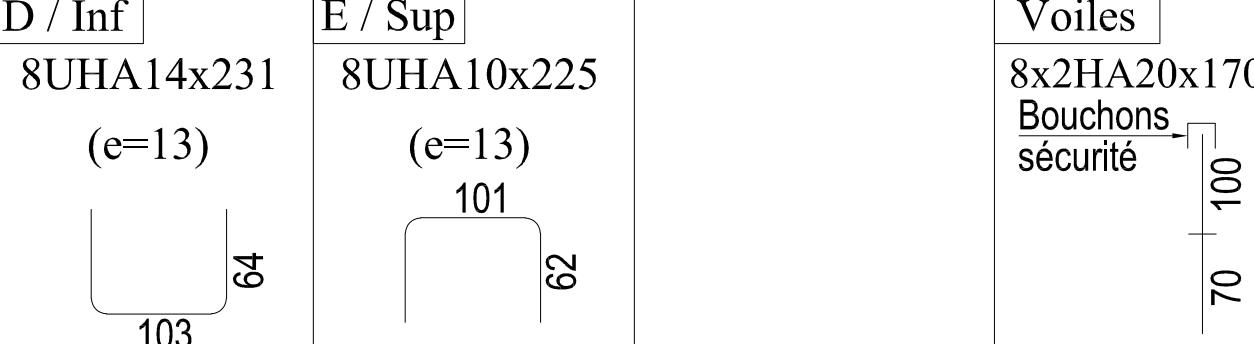
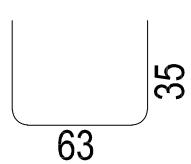
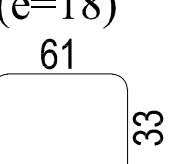
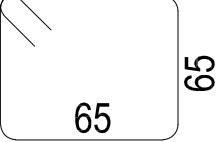
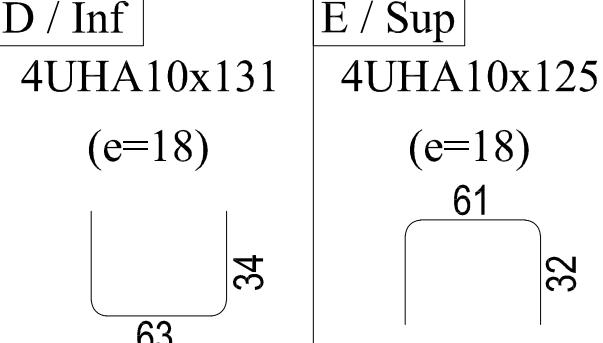


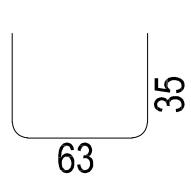
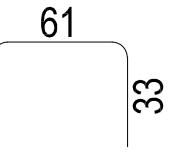
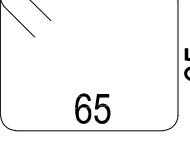
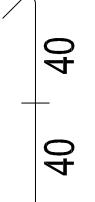
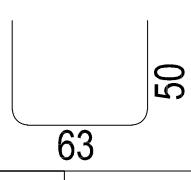
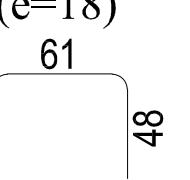
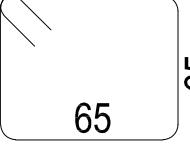
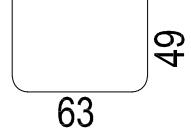
Vue en plan

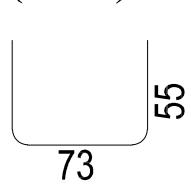
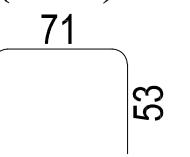
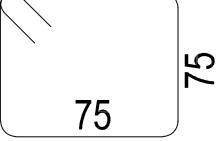
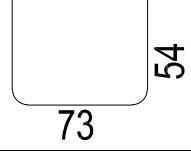
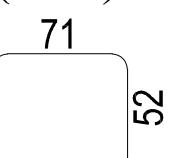
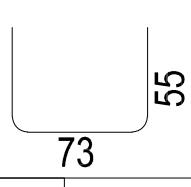
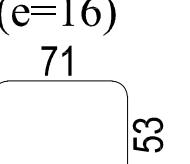
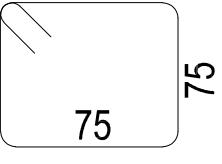
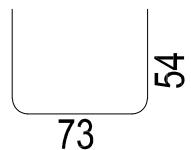
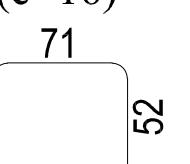
Disposition armature (F)

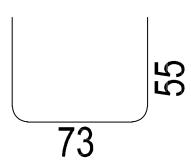
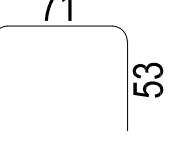
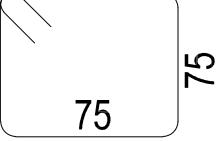
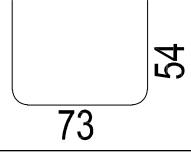
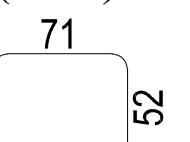
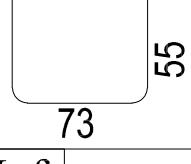
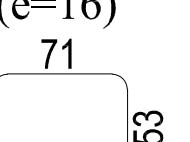
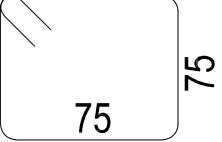
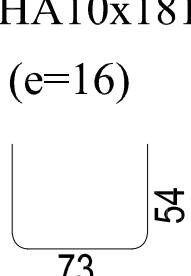
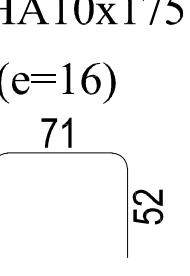


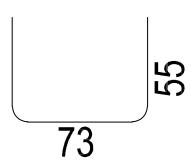
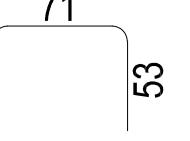
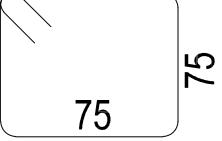
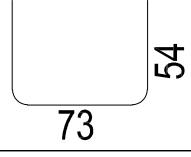
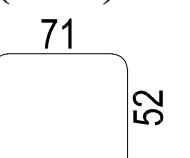
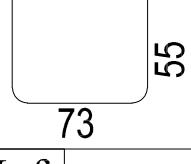
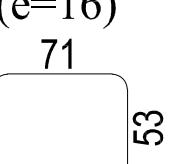
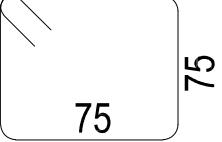
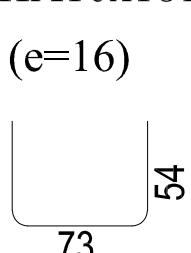
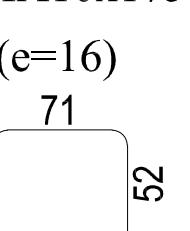
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq64 (115x115x95ht)	8UHA14x273 (e=13) 	8UHA10x267 (e=13) 	6CadHA8x440 (e=12) 	
	D / Inf	E / Sup		Longrine 7x2HA20x205 Bouchons sécurité
Casq65 (115x115x75ht)	8UHA14x271 (e=13) 	8UHA10x265 (e=13) 		
	A / Inf	B / Sup	C	Poteaux
	9UHA10x233 (e=11) 	9UHA10x227 (e=11) 	5CadHA8x440 (e=10) 	
	D / Inf	E / Sup		Voiles 5x2HA10x135

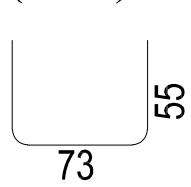
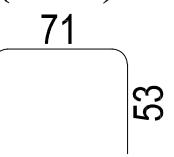
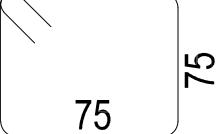
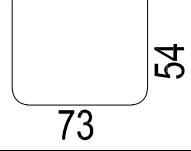
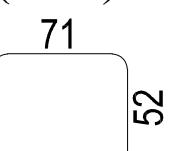
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Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq66 (115x115x75ht)	8UHA14x233 (e=13) 	8UHA10x227 (e=13) 	5CadHA8x440 (e=10) 	
	D / Inf	E / Sup		Voiles 8x2HA20x170 Bouchons sécurité 
Casq67 (75x75x45ht)	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
	A / Inf	B / Sup	C	Poteaux
	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles 4UHA10x131 (e=18) 

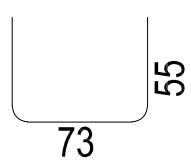
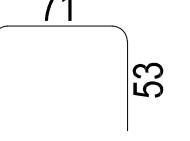
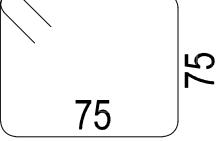
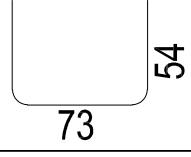
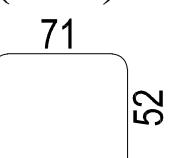
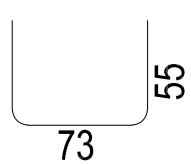
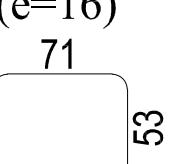
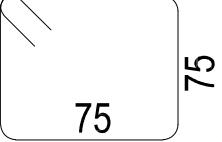
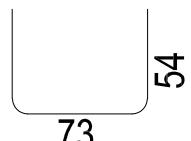
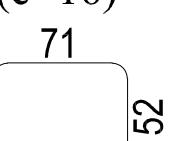
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq68 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 
Casq69 (75x75x60ht)	4UHA10x163 (e=18) 	4UHA10x157 (e=18) 	C 4CadHA8x280 (e=10) 	Poteaux
	D / Inf	E / Sup		Voiles
	4UHA10x161 (e=18) 	4UHA10x152 (e=18) 		

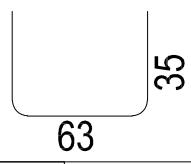
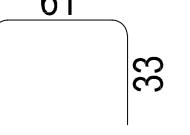
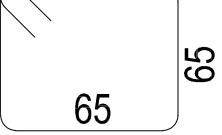
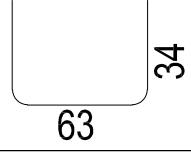
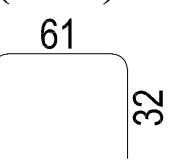
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq70 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq71 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		
	A / Inf	B / Sup	C	Poteaux
Casq71 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq71 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		

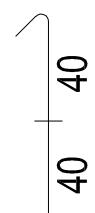
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq72</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq73</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq74</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq75</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq76 (85x85x65ht)	5UHA10x183 (e=16) 	5UHA10x177 (e=16) 	4CadHA8x320 (e=11) 	
	D / Inf	E / Sup		Voiles
Casq77 (85x85x65ht)	5UHA10x181 (e=16) 	5UHA10x175 (e=16) 		
	D / Inf	E / Sup	C	Poteaux

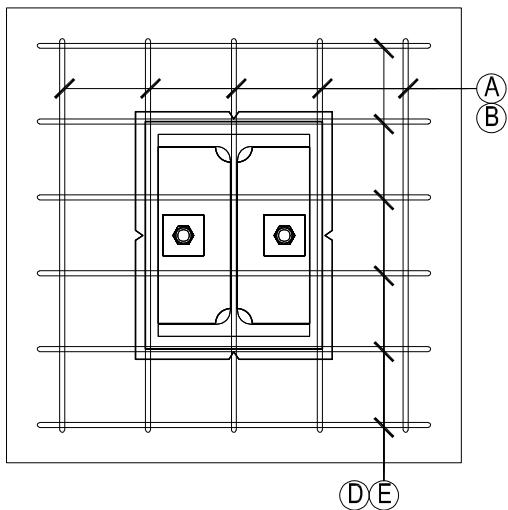
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
<i>Casq78</i> (85x85x65ht)	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles
<i>Casq79</i> (85x85x65ht)	A / Inf 5UHA10x183 (e=16) 	B / Sup 5UHA10x177 (e=16) 	C 4CadHA8x320 (e=11) 	Poteaux
	D / Inf 5UHA10x181 (e=16) 	E / Sup 5UHA10x175 (e=16) 		Voiles

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq80 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Voiles
	4UHA10x131 (e=18) 	4UHA10x125 (e=18) 		

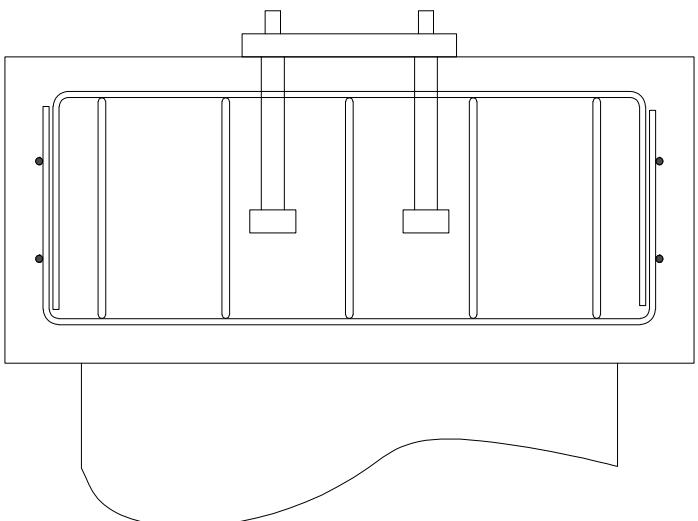
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=17) 	B / Sup 5UHA10x182 (e=17) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq8I (90x90x65ht)	D / Inf 6UHA10x186 (e=15) 	E / Sup 6UHA10x180 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Longrine 5x2HA8x95 

Vue en plan

Disposition armature (A;B;D;E)

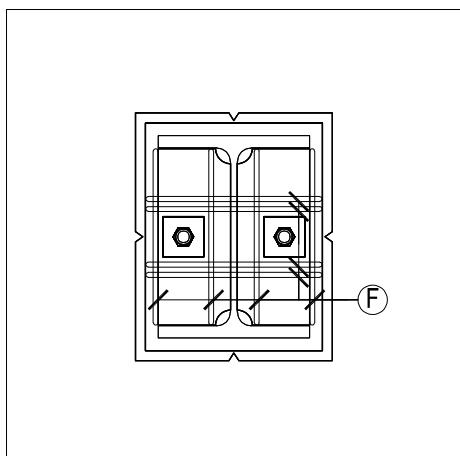


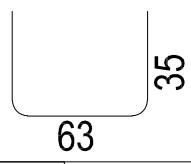
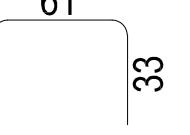
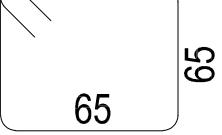
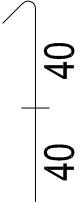
Elévation



Vue en plan

Disposition armature (F)

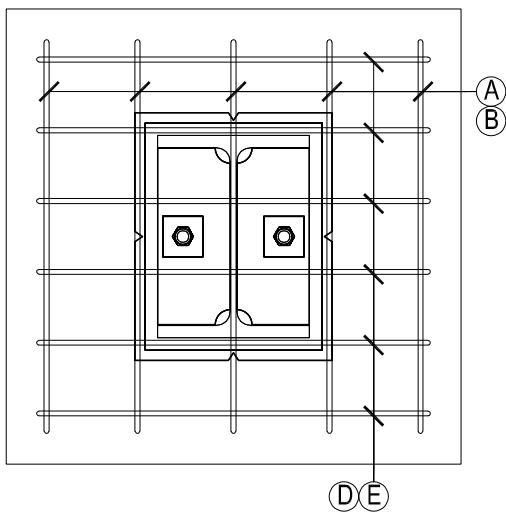


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq82 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

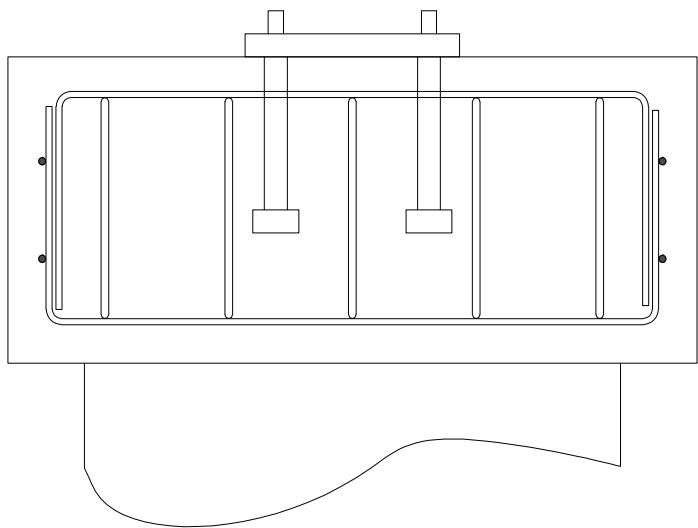
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA12x188 (e=18) 	B / Sup 5UHA12x182 (e=18) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq83 (90x90x65ht)	D / Inf 6UHA10x186 (e=14) 	E / Sup 6UHA10x180 (e=14) 	Armatures vertical F 8UHA10x135 (non soudées) 	Longrine 4x2HA8x95

Vue en plan

Disposition armature (A;B;D;E)

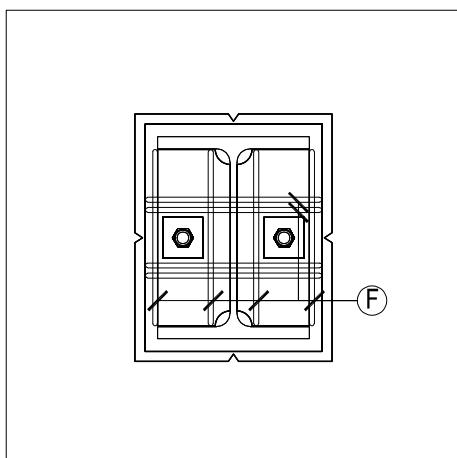


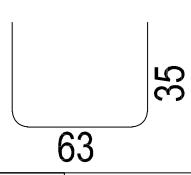
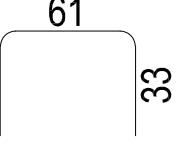
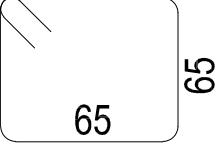
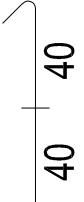
Elévation

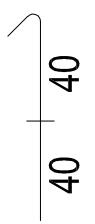


Vue en plan

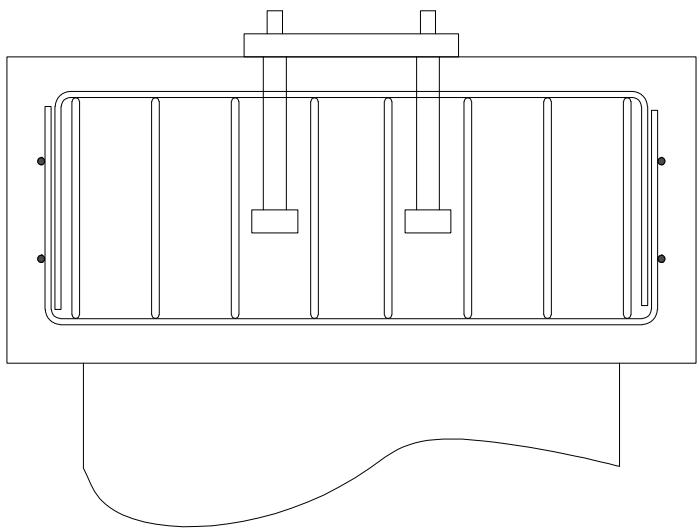
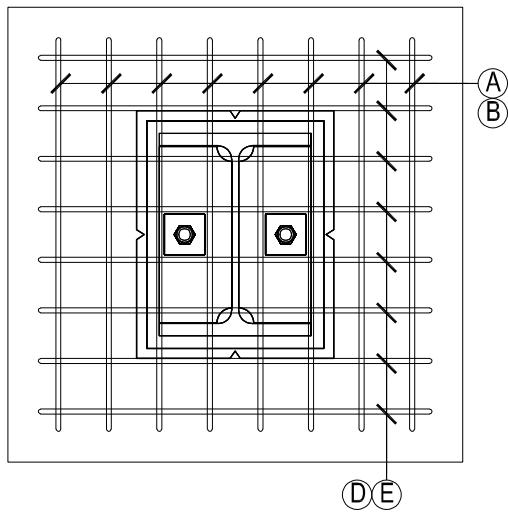
Disposition armature (F)



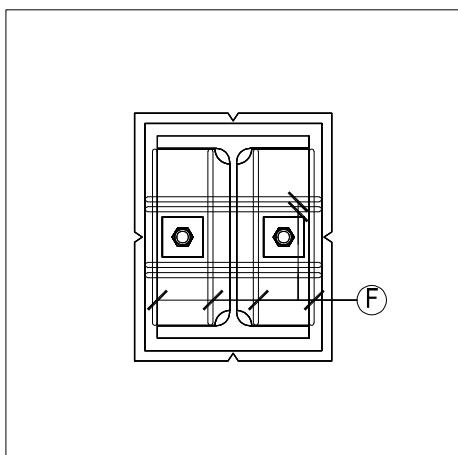
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq84 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

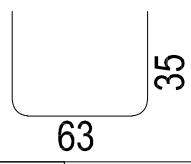
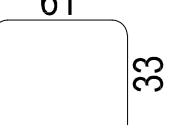
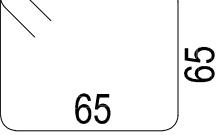
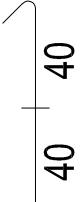
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 8UHA10x188 (e=10) 	B / Sup 8UHA10x182 (e=10) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq85 (90x90x65ht)	D / Inf 8UHA10x186 (e=10) 	E / Sup 8UHA10x180 (e=10) 	Armatures vertical F 8UHA10x135 (non soudées) 	Longrine 4x2HA8x95 

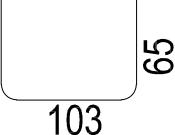
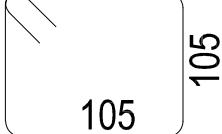
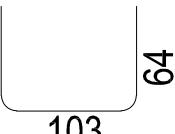
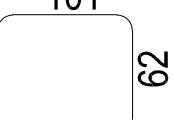
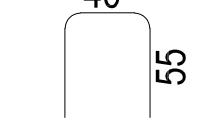
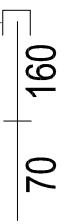
Elévation



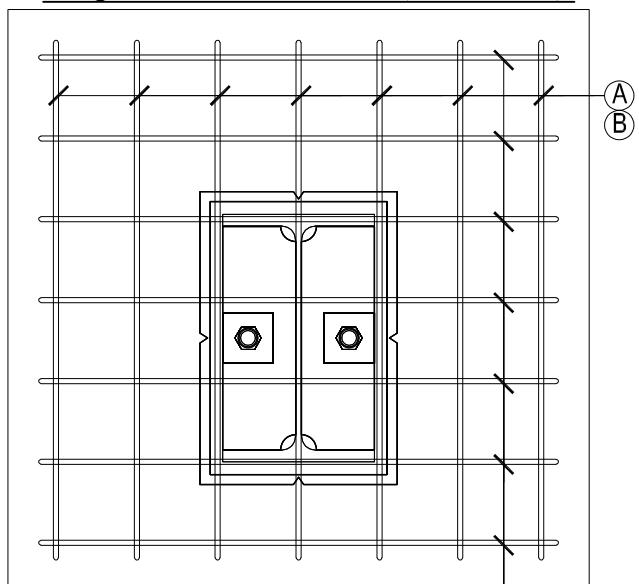
Vue en plan
Disposition armature (F)



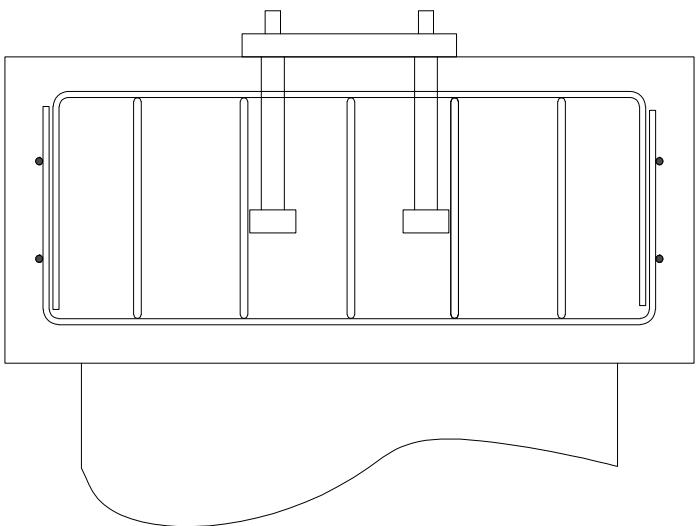
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq86 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA16x233 (e=16) 	B / Sup 7UHA12x227 (e=16) 	C 5CadHA8x440 (e=10) 	Poteaux
Casq87 (115x115x75ht)	D / Inf 7UHA16x231 (e=16) 	E / Sup 7UHA12x225 (e=16) 	Armatures vertical F 8UHA14x150 (non soudées) 	Voiles 5x2HA20x230 Bouchons sécurité 
	<u>Vue en plan</u>			

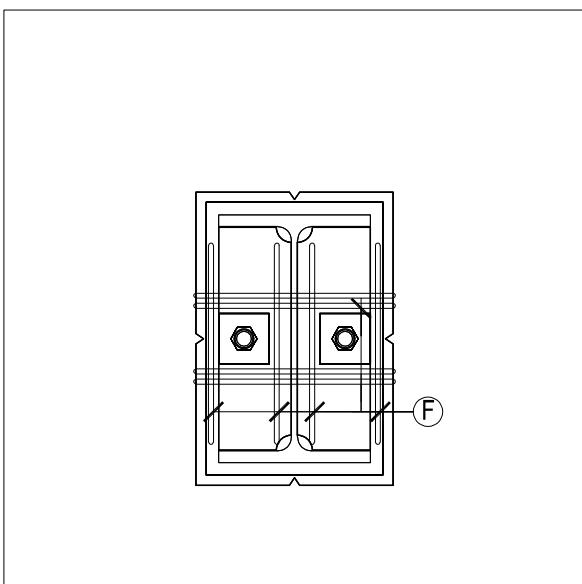
Disposition armature (A;B;D;E)

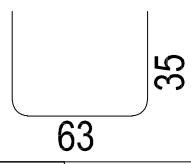
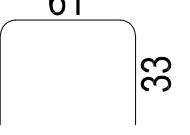
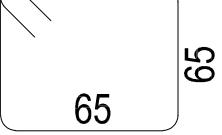
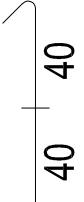


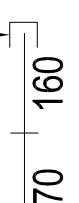
Elévation

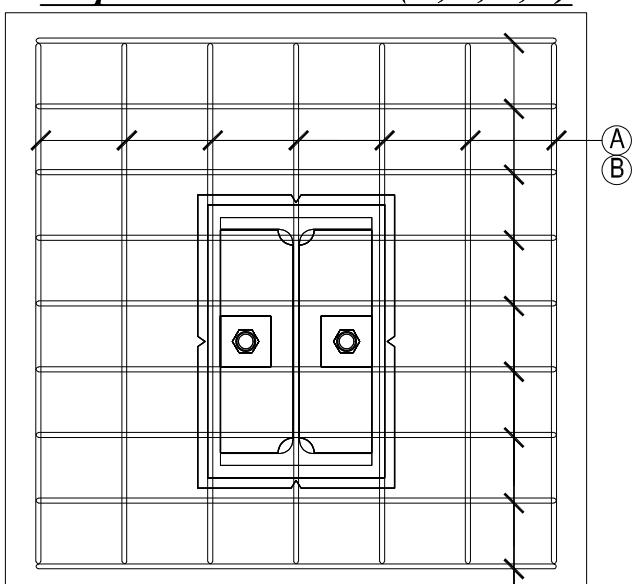


Vue en plan
Disposition armature (F)



	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq88 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

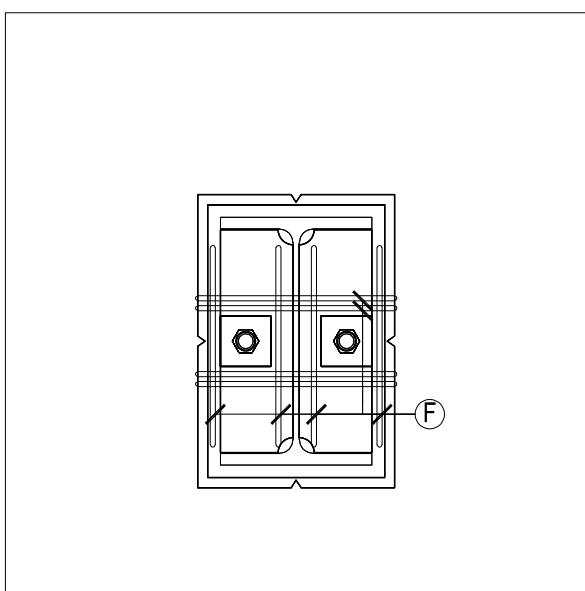
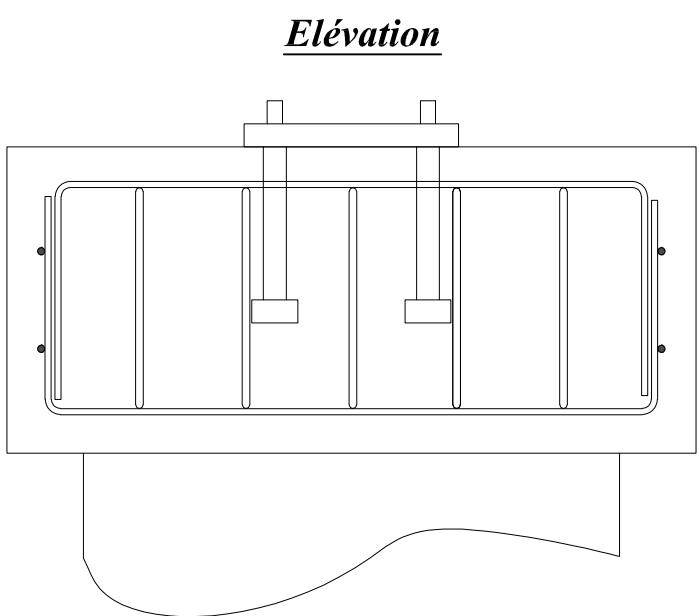
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 7UHA16x233 (e=17) 	B / Sup 7UHA12x227 (e=17) 	C 5CadHA8x440 (e=10) 	Poteaux
Casq89 (115x115x75ht)	D / Inf 9UHA14x231 (e=13) 	E / Sup 9UHA10x225 (e=13) 	Armatures vertical F 8UHA14x150 (non soudées) 	Voiles 5x2HA20x230 Bouchons sécurité 
<i>Vue en plan</i>	<i>Disposition armature (A;B;D;E)</i>	<i>Elévation</i>		



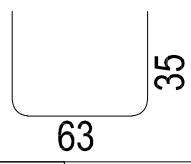
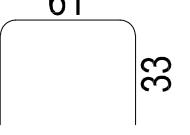
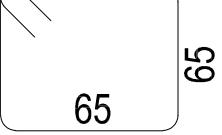
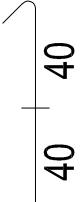
Vue en plan

(D) (E)

Disposition armature (F)



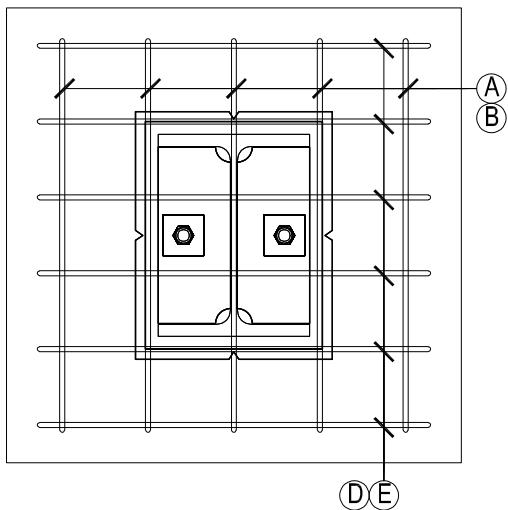
(F)

	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq90 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

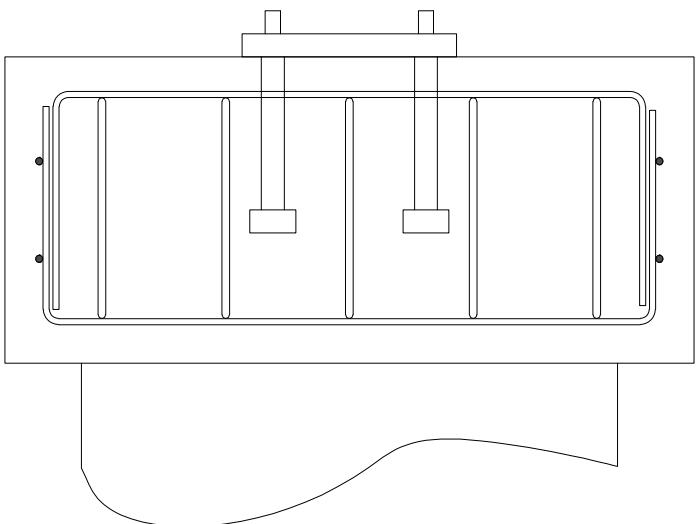
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=17) 	B / Sup 5UHA10x182 (e=17) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq91 (90x90x65ht)	D / Inf 6UHA10x186 (e=15) 	E / Sup 6UHA10x180 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Longrine 4x2HA8x95

Vue en plan

Disposition armature (A;B;D;E)

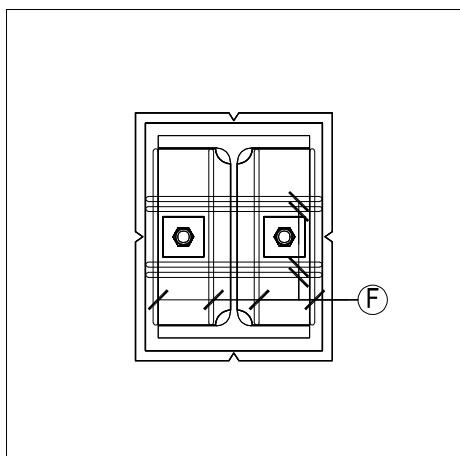


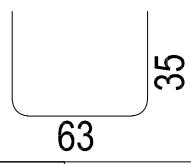
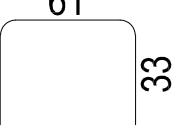
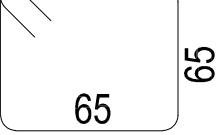
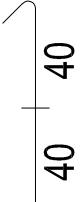
Elévation



Vue en plan

Disposition armature (F)

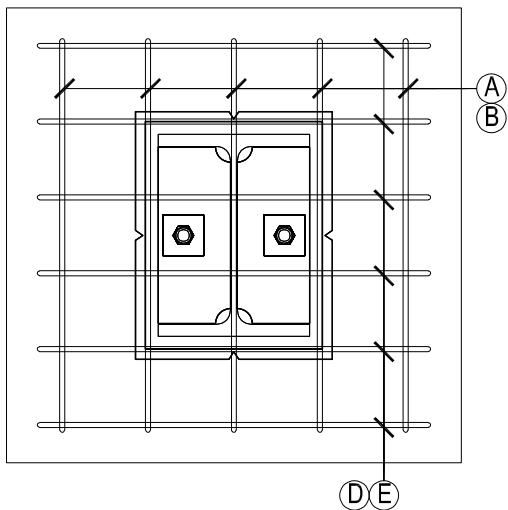


	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf	B / Sup	C	Poteaux
Casq92 (75x75x45ht)	4UHA10x133 (e=18) 	4UHA10x127 (e=18) 	3CadHA8x280 (e=8) 	
	D / Inf	E / Sup		Longrine 3x2HA8x95 

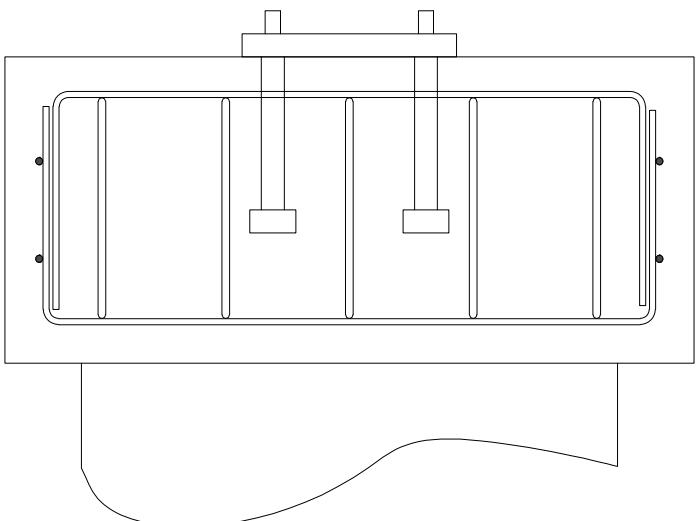
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x188 (e=17) 	B / Sup 5UHA10x182 (e=17) 	C 4CadHA8x340 (e=11) 	Poteaux
Casq93 (90x90x65ht)	D / Inf 6UHA10x186 (e=15) 	E / Sup 6UHA10x180 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Longrine 4x2HA8x95

Vue en plan

Disposition armature (A;B;D;E)

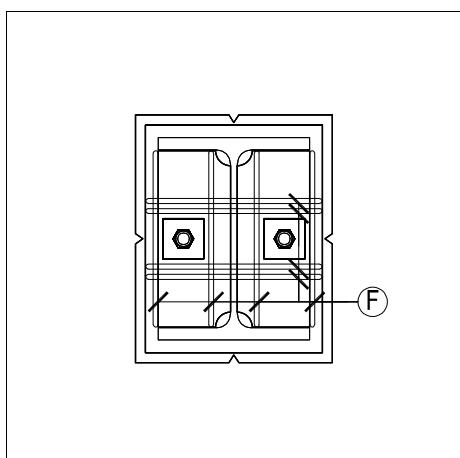


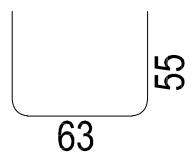
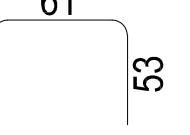
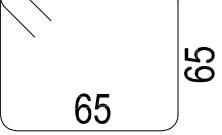
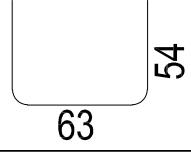
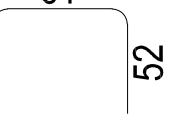
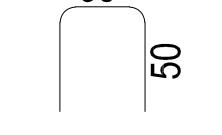
Elévation



Vue en plan

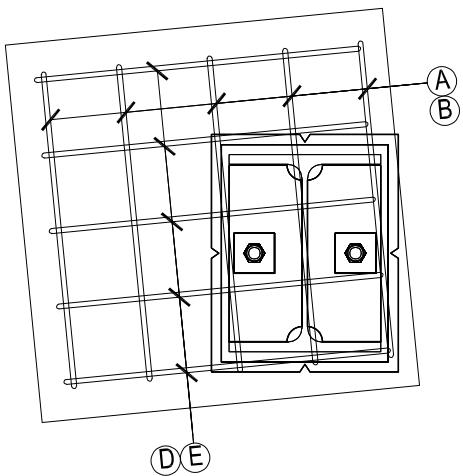
Disposition armature (F)



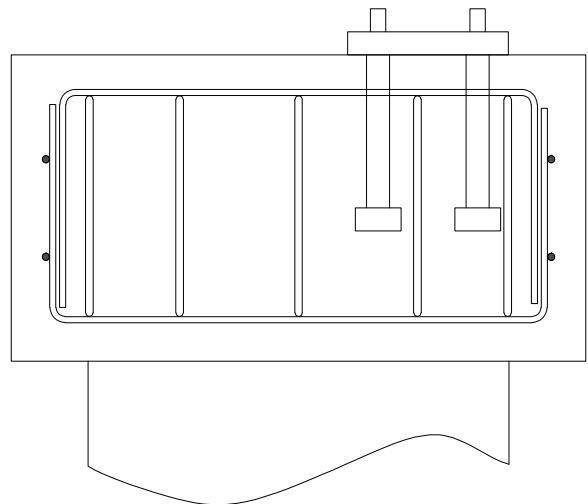
	Armatures vertical	Armatures vertical	Armatures Horizontal	Attentes
Cadre ouvert	A / Inf 5UHA10x173 (e=15) 	B / Sup 5UHA10x167 (e=15) 	C 4CadHA8x280 (e=11) 	Poteaux
Casq94 (75x75x65ht)	D / Inf 5UHA10x171 (e=15) 	E / Sup 5UHA10x165 (e=15) 	Armatures vertical F 8UHA10x135 (non soudées) 	Voiles

Vue en plan

Disposition armature (A;B;D;E)

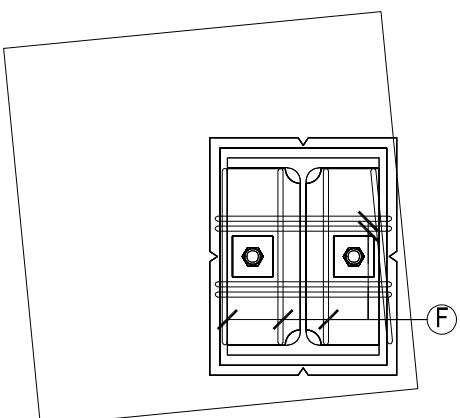


Elévation



Vue en plan

Disposition armature (F)



LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

Br01

Béton=7.00 m³
Acier=268.7 kg =38.4 kg/m³
Fi=10.0 mm Co=8.7 m²

Eb=5.0 cm
Eh=7.0 cm
El=5.0 cm

$\frac{1}{1}$

fck= 35 MPa fyk= 500 MPa Classe de ductilité B Classe d'exposition: XA2

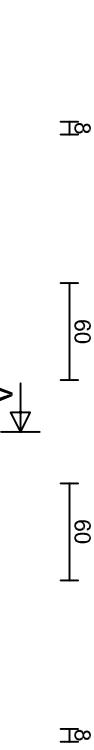
Section : 125 x 400 x 140ht

* Armatures non soudées

	Barre	Lg	Forme
1	12HA10	262	$\frac{10}{160} \frac{106}{90}$
2	4HA10	209	50
3	12HA14	617	119 16 16 119 90° 390 90°
4	12HA12	374	374
5	12HA8	388	388
6	8HA10	384	384
7	20HA8	495	115 128 128
8	200HA8	146	128
9	12HA10	262	$\frac{106}{90°} \frac{10}{160}$
10	4HA8	209	50
11	20x 2HA8	95	40 40 80 80
12	4HA16	240	40
13	3HA16	265	100 65

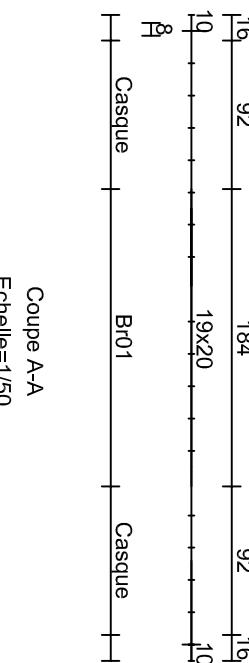
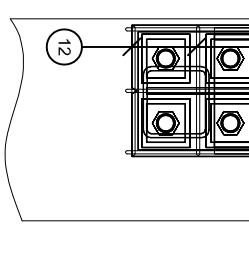
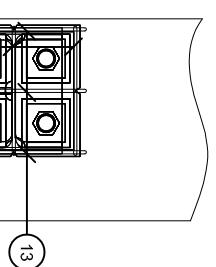
Elévation

Echelle=1/50

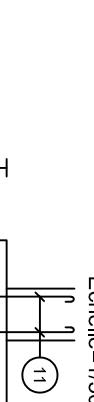
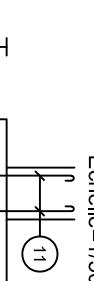


Vue en plan

Disposition armatures (12;13)
Echelle=1/25



Coupe A-A
Echelle=1/50



* *

Barre

Lg/Poids

LEGENDRE

BORDEAUX-BRAZZA
FONDACTIONS

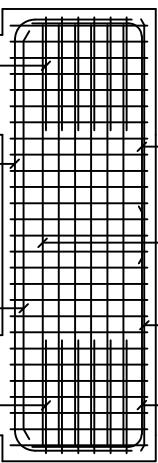
Br04

Béton=2,53 m³
Acier=486,8 kg d=19,6 kg/m³
Fi=14,7 mm Co=4,4 m²

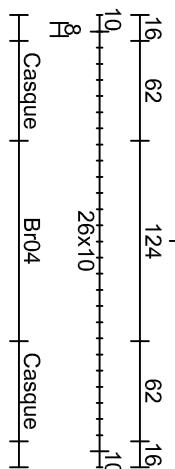
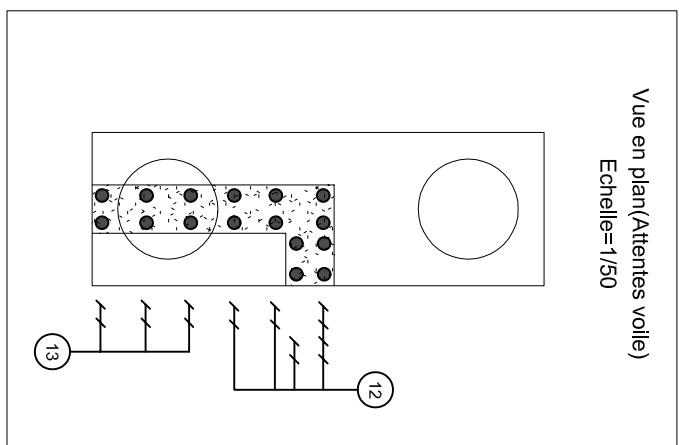
fck= 35 MPa fvk= 500 MPa Classe de ductilité B Classe d'exposition: XA2
Section : 95x280x95ht

Barre	Lg	Forme
1	9HA14	214
2	6HA14	216
3	9HA25	401
4	9HA25	254
5	9HA14	268
6	12HA14	260
7	27HA10	349
8	729HA10	192
9	9HA14	214
10	6HA14	216
11		83
12	5x2HA20	190
13	3x2HA10	135
		15[70]120
		50

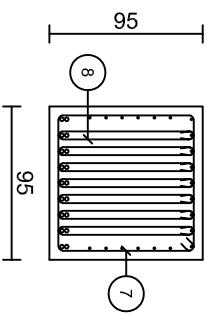
Barre	Lg/Poids
HA10	186,2/114,8
HA14	119,8/144,7
HA20	19,0/047,0
HA25	59,0/027,3



Vue en plan(Attentes volée)
Echelle=1/150



Coupe A-A
Echelle=1/150



LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

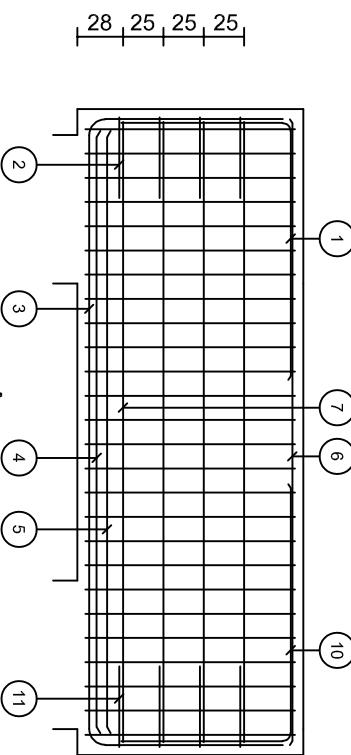
Br05

Béton=7.00 m³
Acier=550.0 kg=78.6 kg/m³
Fi=12.8 mm Co=8.7 m²

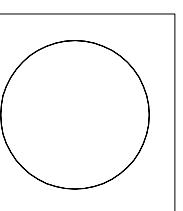
fck= 35 MPa fvk= 500 MPa Classe de ductilité B Classe d'exposition: XA2
Section : 125 x 400 x 140jht

Elevation
Echelle=1/50

H_o
H_o
H_o

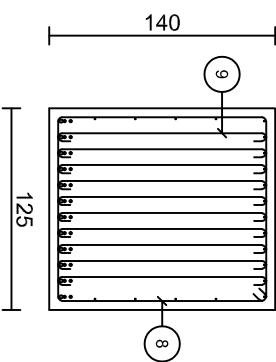


Vue en plan(Attentes volée)
Echelle=1/50



16
92
12.5
H_o
Caserne
B105
Caserne
16
92
16
25x15
12.5
H_o
Caserne

Coupe A-A
Echelle=1/50



Barre	Lg	Forme
1	12HA10	262
2	4HA10	209
3	12HA20	619
4	12HA16	374
5	12HA16	374
6	12HA10	388
7	8HA8	384
8	26HA10	499
9	260HA10	150
10	12HA10	262
11	4HA10	209
12	5x2HA20	190
13	3x2HA10	135

Barre	Lg/Poids
HA8	30.7/12.1
HA10	345.5/13.0
HA16	89.8/14.1.7
HA20	74.3/18.2

LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

Br06

$f_{ck} = 35 \text{ MPa}$ $f_{yk} = 500 \text{ MPa}$ Classe de ductilité B | Classe d'exposition: XA2

Section : 95x280x95ht

Béton=2,53 m³
Acier=639,8 kg d=23,2 kg/m³
Fi=15,4 mm Co=4,4 m²

Eb=5,0 cm
Eh=5,0 cm
El=5,0 cm

$\frac{1}{1}$

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LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

Br07

$f_{ck} = 35 \text{ MPa}$ $f_{yk} = 500 \text{ MPa}$ Classe de ductilité B | Classe d'exposition: XA2

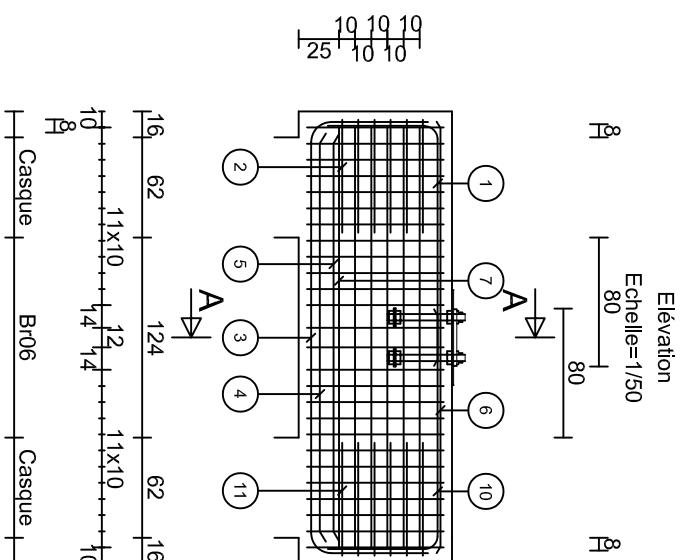
Section : 95x280x95ht

Béton=2,53 m³
Acier=639,8 kg d=233,2 kg/m³
Fi=15,4 mm Co=4,4 m²

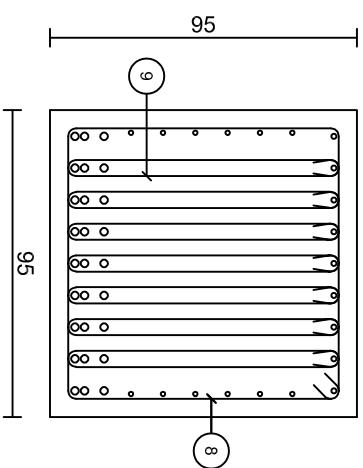
Barre	Lg	Forme
1	9HA16	214
2	6HA14	216
3	9HA25	401
4	9HA25	254
5	9HA25	254
6	9HA16	268
7	12HA14	260
8	26HA10	350
9	182HA10	192
10	9HA16	214
11	6HA14	216

Eb=5,0 cm
Eh=5,0 cm
El=5,0 cm

$\frac{1}{1}$



Coupe A-A
Echelle=1/25



Barre	Lg/Poids
HA10	198,6/122,4
HA12	38,6/34,2
HA14	57,2/69,1
HA16	62,6/98,8
HA25	81,8/315,3

LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

$f_{ck} = 35 \text{ MPa}$ $f_{yk} = 500 \text{ MPa}$ Classe de ductilité B | Classe d'exposition: XA2

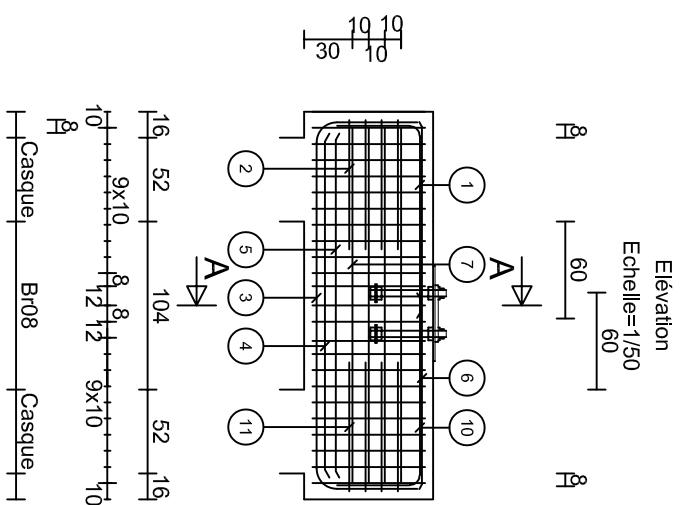
Br08

Béton=1,63 m³
Acier=364,8 kg d=223,5 kg/m³
Fi=14,2 mm Co=3,3 m²

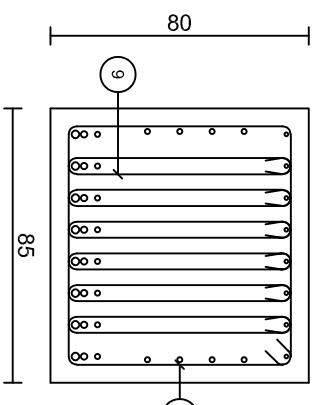
$E_b=5,0 \text{ cm}$
 $E_h=5,0 \text{ cm}$
 $E_l=5,0 \text{ cm}$

$\frac{1}{1}$

Section : 85 x 240 x 80 ht



Coupe A-A
Echelle=1/25



Barre	Lg/Poids
HA10	152,5/94,0
HA12	45,1/40,0
HA16	52,8/83,3
HA20	17,1/42,2
HA25	27,3/105,2

LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

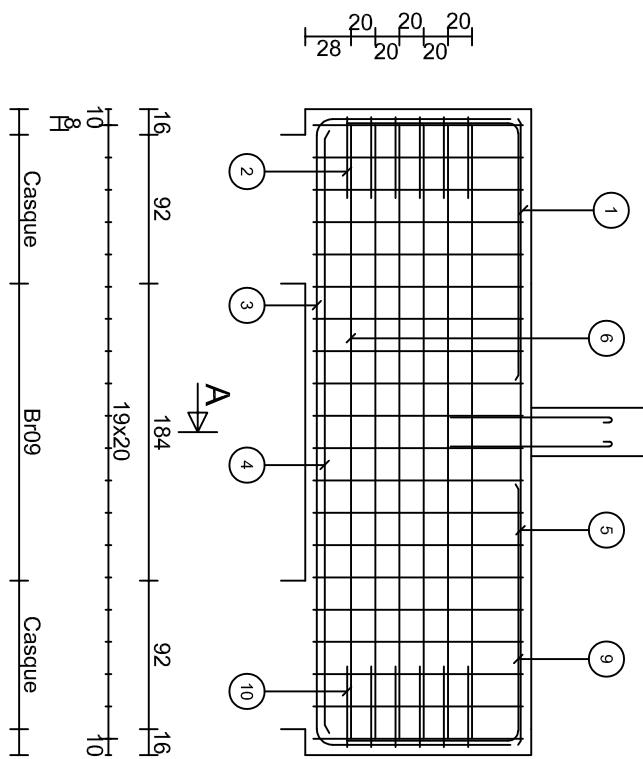
Br09

Béton=7.00 m³
Acier=516.0 kg =73.7 kg/m³
Ft=12.2 mm Cof=8.7 m²

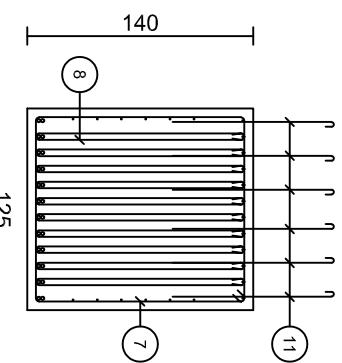
Section : 125 x 400 x 140ht
fck= 35 MPa fvk= 500 MPa Classe de ductilité B Classe d'exposition: XA2

Elévation
Echelle=1/50

A
H
60
60
H
A



Coupe A-A
Echelle=1/150



Barre	Lg	Forme
1	12HA12	263
2	6HA10	209
3	12HA20	619
4	12HA20	374
5	12HA10	388
6	12HA8	380
7	20HA8	499
8	200HA8	279
9	12HA12	263
10	6HA10	209
11	6x 2HA10	115

Barre	Lg/Poids
HA8	309.1/122.0
HA10	716/44.1
HA12	63.1/56.0
HA20	119.2/293.9

LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

Br10

Béton=7.00 m³
Acier=268.7 kg =38.4 kg/m³
Fi=10.0 mm Co=8.7 m²

Eb=5.0 cm
Eh=7.0 cm
El=5.0 cm

$\frac{1}{1}$

fck= 35 MPa fyk= 500 MPa Classe de ductilité B Classe d'exposition: XA2

Elévation

Echelle=1/50

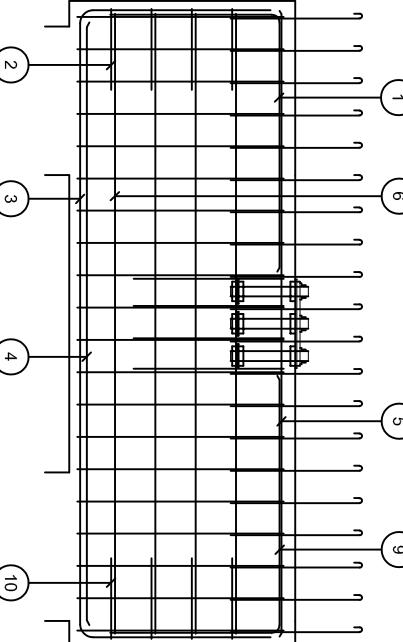
Hg 60 60 Hg

A

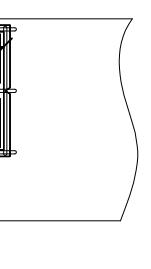
113

50

28 25 25 25

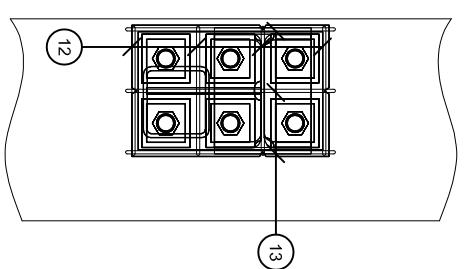
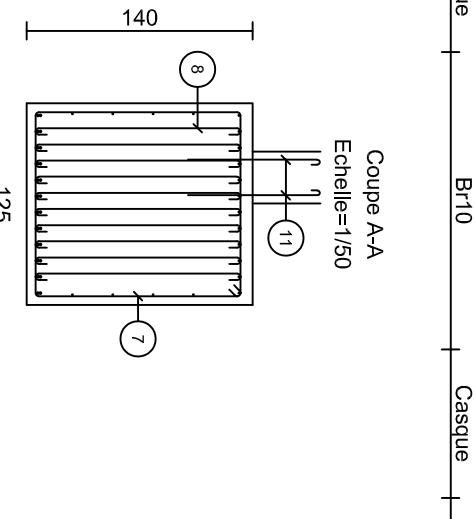


Vue en plan
Disposition armatures (12;13)
Echelle=1/25



* Armatures non soudées

	Barre	Lg	Forme
1	12HA10	262	$\frac{10}{16}$ $\frac{90}{90}$
2	4HA10	209	50
3	12HA14	617	119 90° 16 16 119 390 90°
4	12HA12	374	374
5	12HA8	388	388
6	8HA10	384	384
7	20HA8	495	115 128
8	200HA8	146	128
9	12HA10	262	$\frac{106}{90} \frac{10}{160}$
10	4HA8	209	50
11	20x 2HA8	95	$\frac{40}{40} \frac{80}{80}$
12	4HA16	240	40
13	3HA16	265	100 65



	Barre	Lg/Poids
HA8		241.7/95.4
HA10		71.3/44.0
HA12		44.9/39.8
HA14		74.1/89.5

LEGENDRE

BORDEAUX-BRAZZA
FOUNDATIONS

$f_{ck} = 35 \text{ MPa}$ $f_{yk} = 500 \text{ MPa}$ Classe de ductilité B | Classe d'exposition: XA2

Br11

Béton=1,63 m³
Acier=362,4 kg d=222,0 kg/m³
Fi=14,7 mm Co=3,3 m²

$E_b=5,0 \text{ cm}$
 $E_h=5,0 \text{ cm}$
 $E_l=5,0 \text{ cm}$

$\frac{1}{1}$

Section : 85 x 240 x 80 ht

