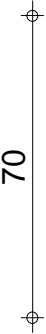
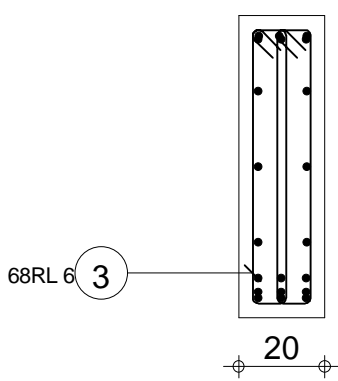
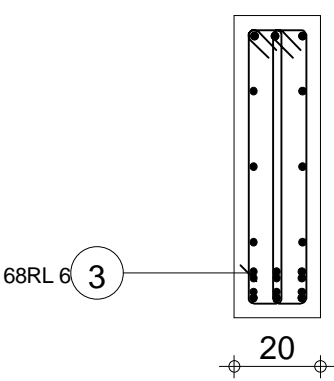


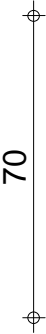
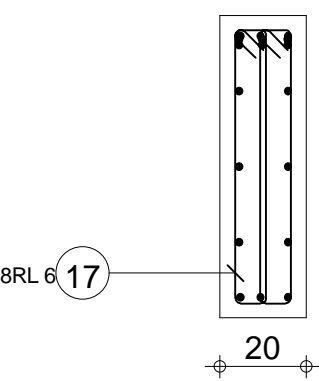
A-A



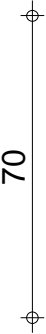
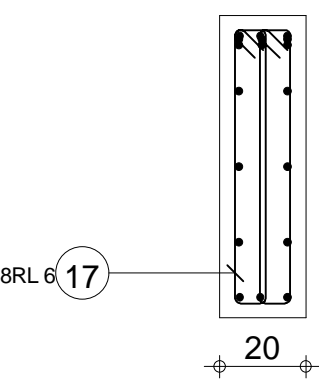
B-B





C-C

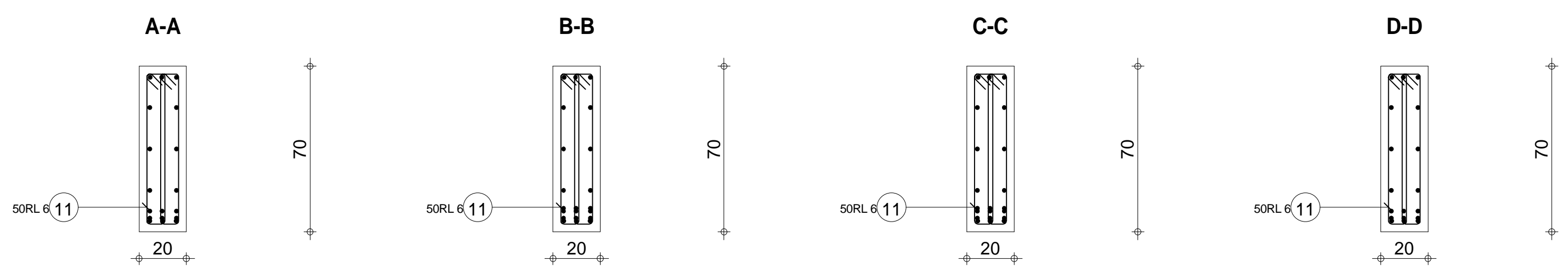
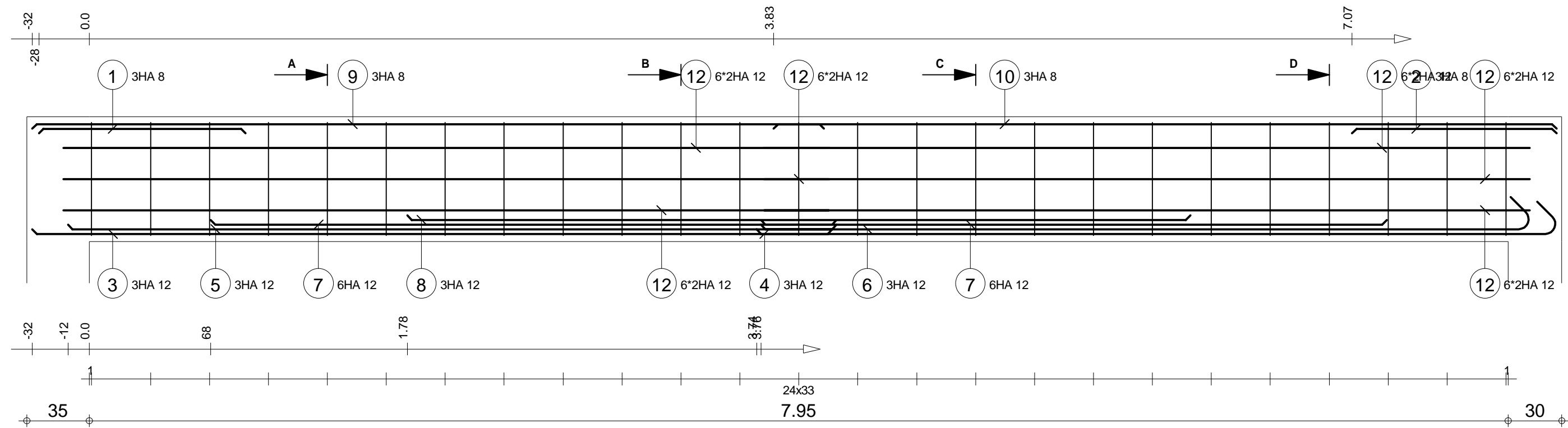


D-D



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 14	l=1.80	00	1.80	④	3HA 14	l=4.21	00	3.97	⑦	3HA 14	l=1.33	00	1.33	⑩	3HA 8	l=3.89	00	3.89
②	3HA 14	l=3.65	00	3.41	⑤	3HA 14	l=4.24	00	4.24	⑧	3HA 14	l=5.38	00	5.39	⑪	3HA 8	l=5.49	00	5.49
③	68RL 6	l=1.56	31	8/8	⑥	3HA 14	l=6.20	00	5.95	⑨	3HA 14	l=3.19	00	3.19	⑫	6*2HA 12	l=3.79	00	3.79
Tél. Fax																Acier HA 400 = 177 kg Acier RL 235 = 27 kg			
R+1 PROJET CERME_PLANS GUIDES																Béton : BETON25 = 1.28 m3			
																Enrobage inférieur 3 cm			
																Enrobage supérieur 3 cm			
POUTRE 1 Section 20x70																Enrobage latéral 3 cm			
																Densité = 159.4 kg/ m3 Surface du coffrage = 14.8 m2			
																Echelle pour la vue 3.97cm/m Echelle pour la section 5.71cm/m			
																Page 1/2			

Pos.	Armature		Code	Forme
16	2RL 6	l=1.56	31	
17	8RL 6	l=1.55	31	



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 8	l=1.16	00	④	3HA 12	l=4.67	00	⑦	6HA 12	l=3.50	00	⑩	3HA 8	l=4.38	00
②	3HA 8	l=1.15	00	⑤	3HA 12	l=4.30	00	⑧	3HA 12	l=4.38	00	⑪	50RL 6	l=1.56	31
③	3HA 12	l=4.48	00	⑥	3HA 12	l=4.49	00	⑨	3HA 8	l=4.43	00	⑫	6*2HA 12	l=4.29	00

R+1

PROJET CERME_PLANS GUIDES

POUTRE 2

Section 20x70

Tél.

Fax

Nombre 1

Béton : BETON25 = 1.2 m3

Acier HA 400 = 137 kg

Acier RL 235 = 17.3 kg

Enrobage inférieur 3 cm

Enrobage supérieur 3 cm

Enrobage latéral 3 cm

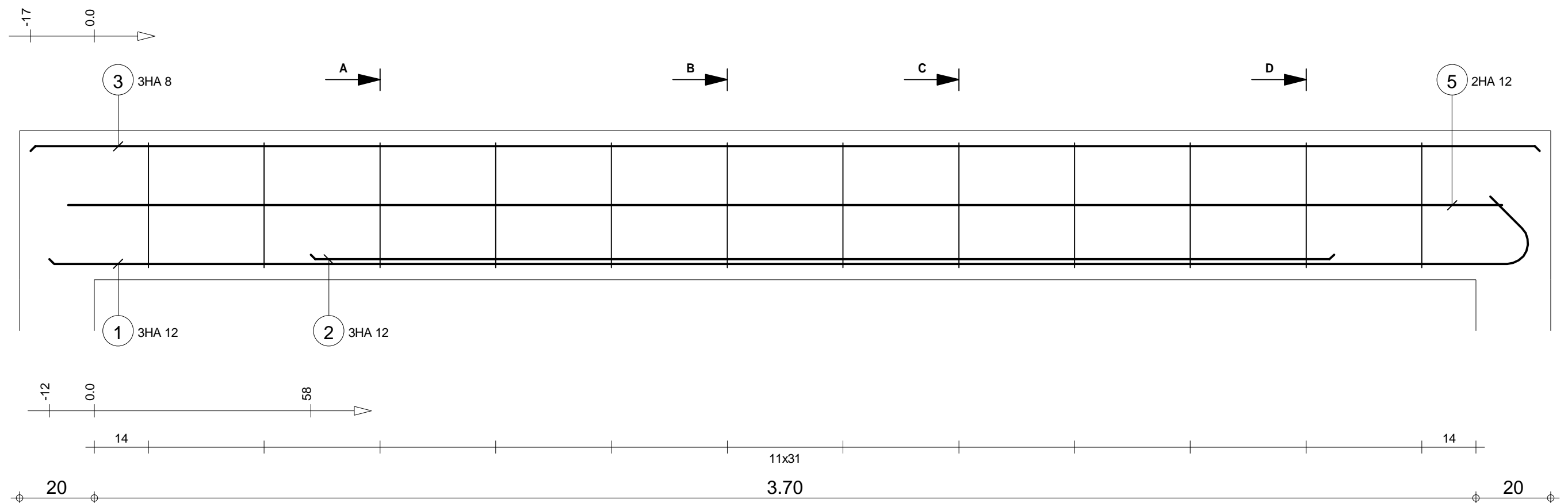
Densité = 128.3 kg/ m3

Echelle pour la vue 4.22cm/m

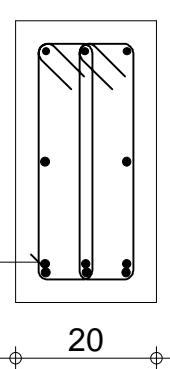
Surface du coffrage = 13.9 m2

Echelle pour la section 5.71cm/m

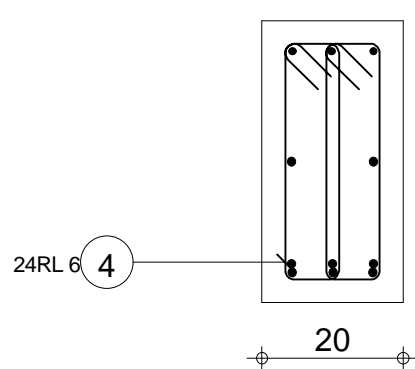
Page 1/1



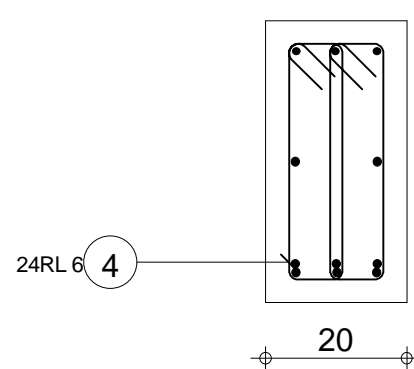
A-A



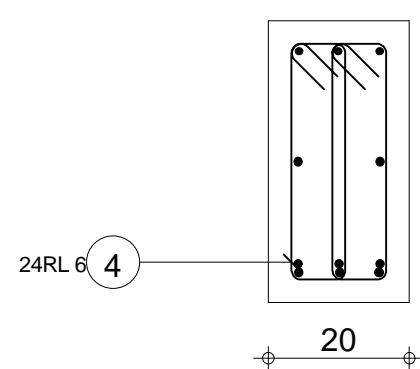
B-B



C-C

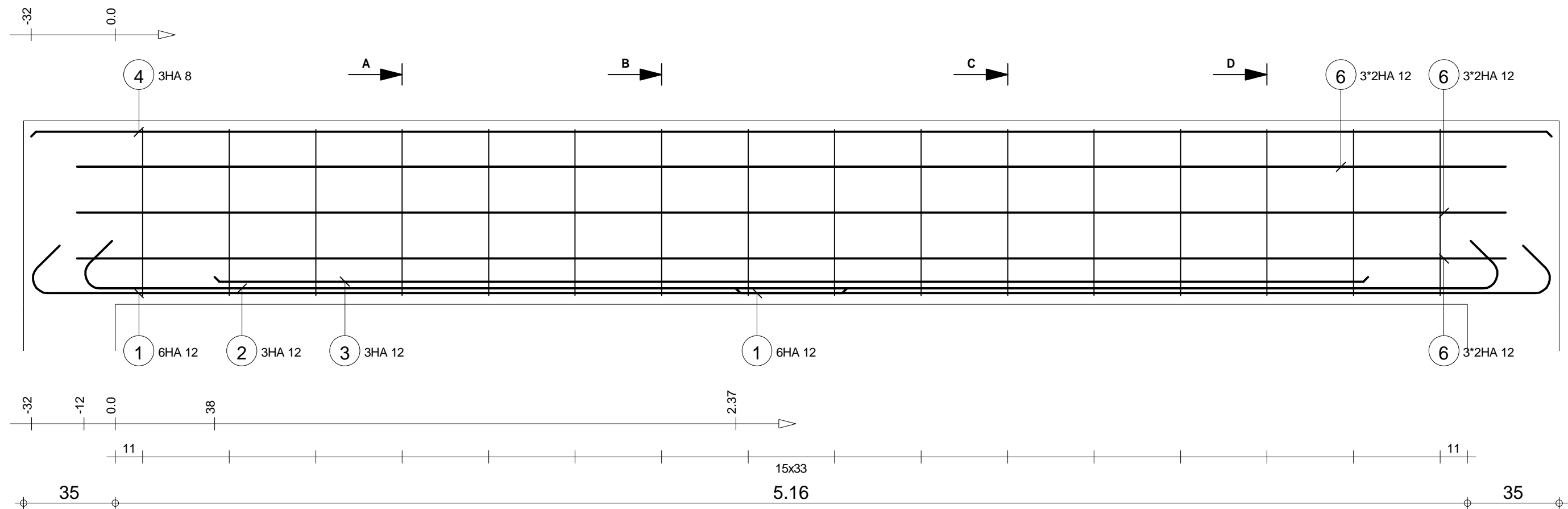


D-D

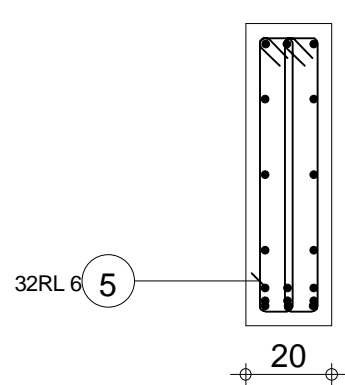


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	l=4.16	00	④	24RL 6	l=96	31
②	3HA 12	l=2.74	00	⑤	2HA 12	l=3.84	00
③	3HA 8	l=4.04	00				

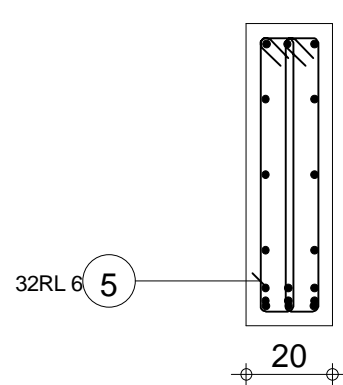
R+1 PROJET CERME_PLANS GUIDES		POUTRE 3 Section 20x40		Nombre 1		Béton : BETON25 = 0.328 m3		Acier HA 400 = 30 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 5.11 kg	
						Densité = 107 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 4.18 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 8.6cm/m		Echelle pour la section 9.34cm/m	
								Page 1/1	



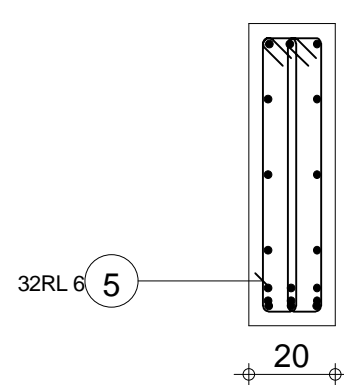
A-A



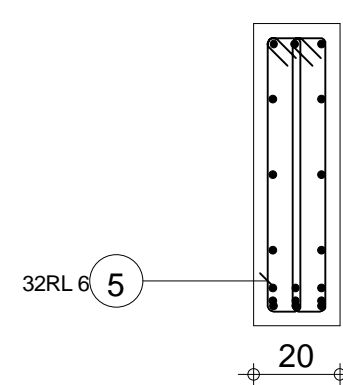
B-B



C-C

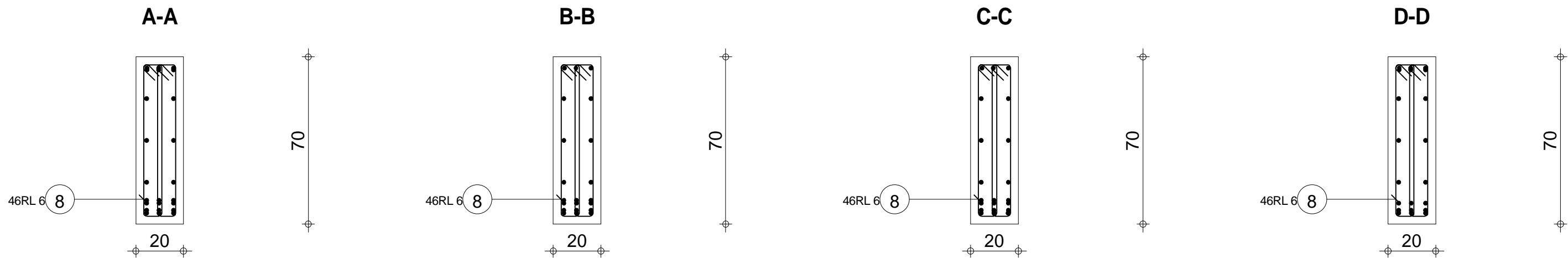
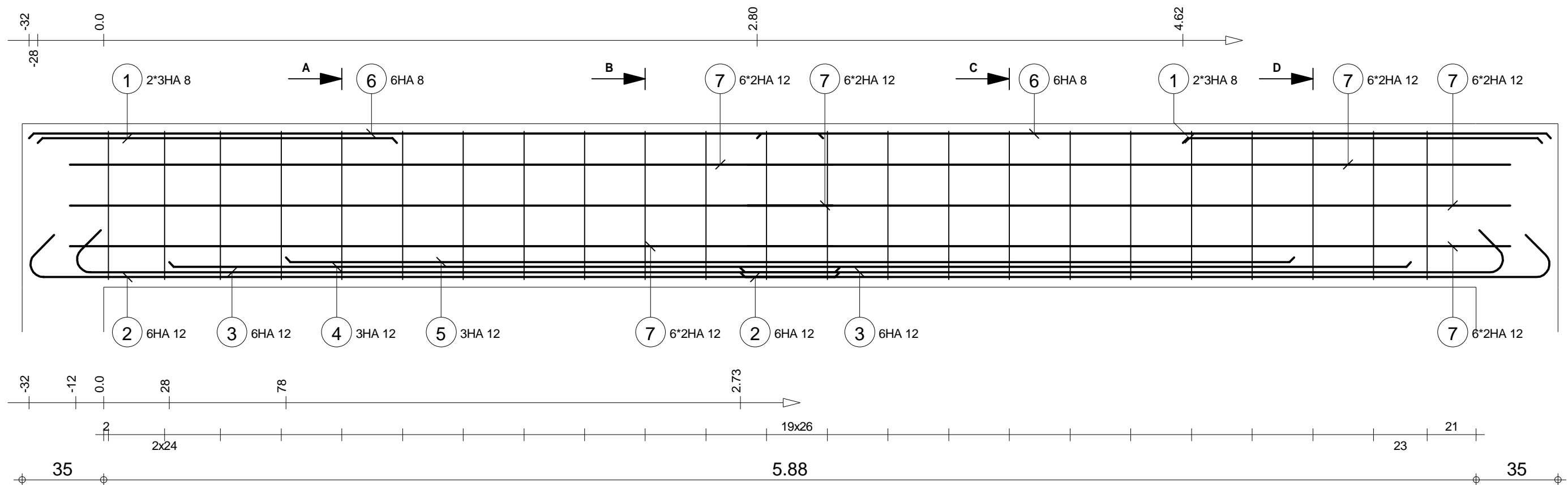


D-D



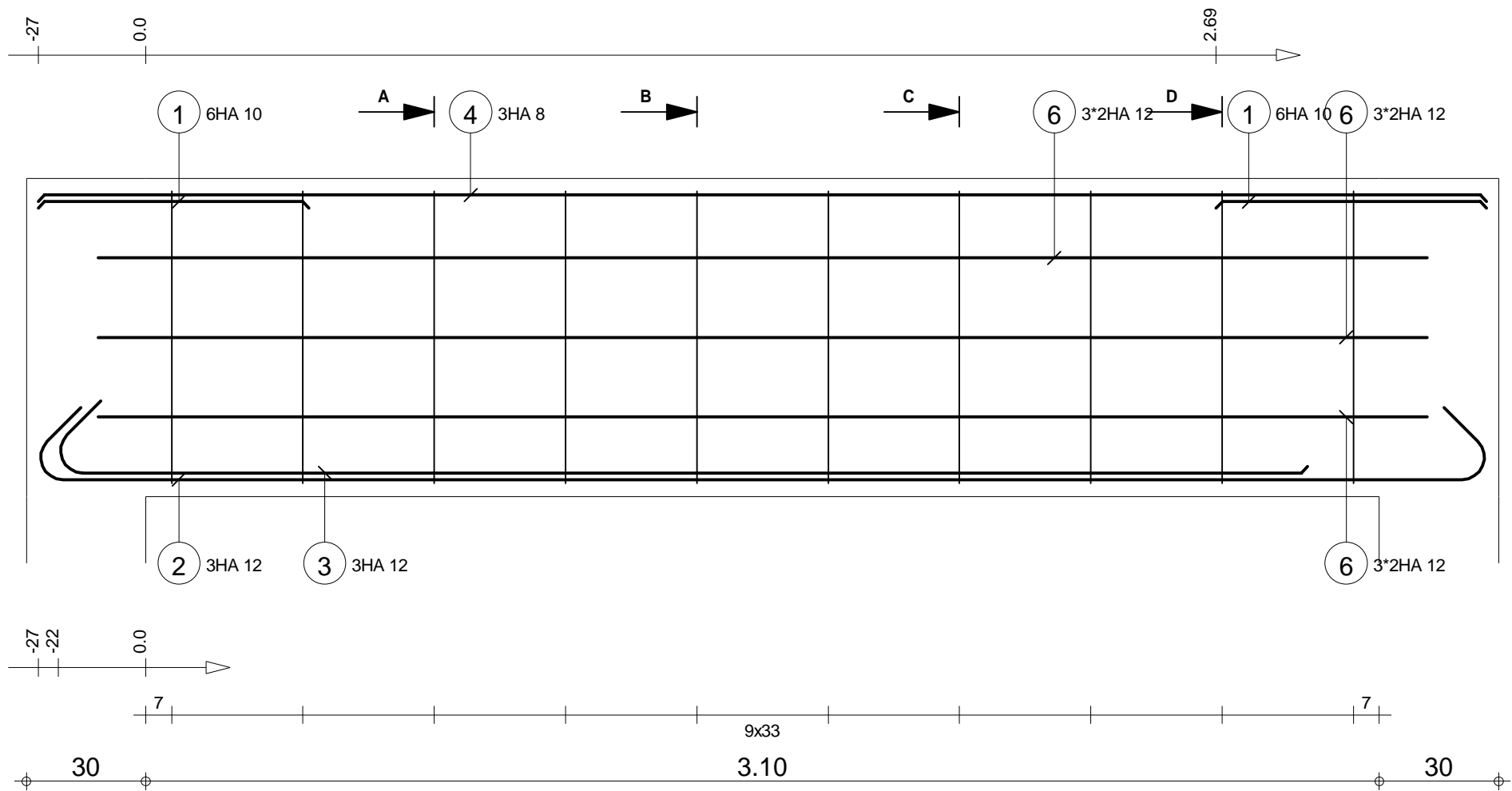
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 12	l=3.30	00	④	3HA 8	l=5.80	00
②	3HA 12	l=5.78	00	⑤	32RL 6	l=1.56	31
③	3HA 12	l=4.40	00	⑥	3*2HA 12	l=5.45	00

		Tél.		Fax				Acier HA 400 = 80.6 kg	
R+1 PROJET CERME_PLANS GUIDES	POUTRE 4 Section 20x70	Nombre 1			Béton : BETON25 = 0.82 m3		Acier RL 235 = 11.1 kg		
			Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		
			Densité = 111.8 kg/ m3 Surface du coffrage = 9.52 m2		Echelle pour la vue 6.11cm/m Echelle pour la section 5.71cm/m		Page 1/1		



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	2*3HA 8	l=1.54	00	④	3HA 12	l=5.32	00	⑦	6*2HA 12	l=3.27	00
②	6HA 12	l=3.66	00	⑤	3HA 12	l=4.32	00	⑧	46RL 6	l=1.56	31
③	6HA 12	l=3.46	00	⑥	6HA 8	l=3.40	00				

R+1 PROJET CERME_PLANS GUIDES		POUTRE 5 Section 20x70		Tél. Fax		Nombre 1		Béton : BETON25 = 0.921 m3		Acier HA 400 = 110 kg	
								Enrobage inférieur 3 cm		Acier RL 235 = 15.9 kg	
								Densité = 136.8 kg/ m3		Enrobage supérieur 3 cm	
								Surface du coffrage = 10.7 m2		Enrobage latéral 3 cm	
								Echelle pour la vue 5.46cm/m		Echelle pour la section 5.71cm/m	
										Page 1/1	

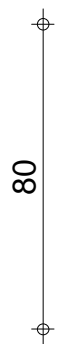
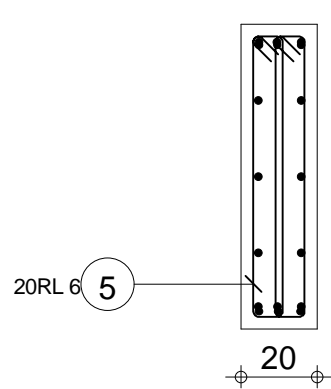
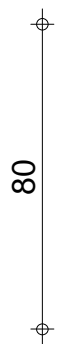
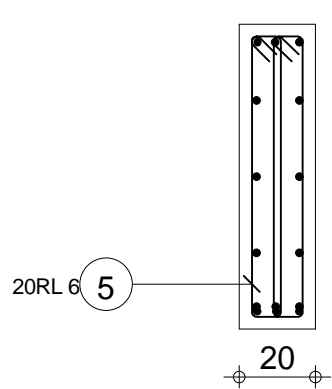
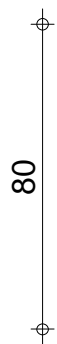
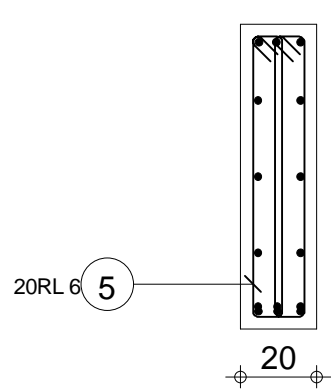
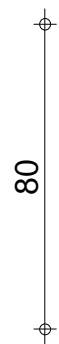
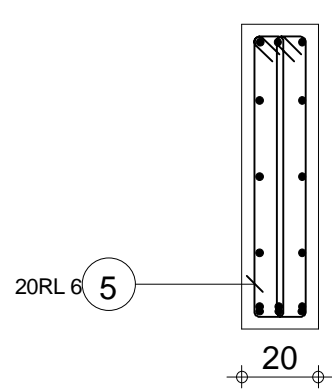


A-A

B-B

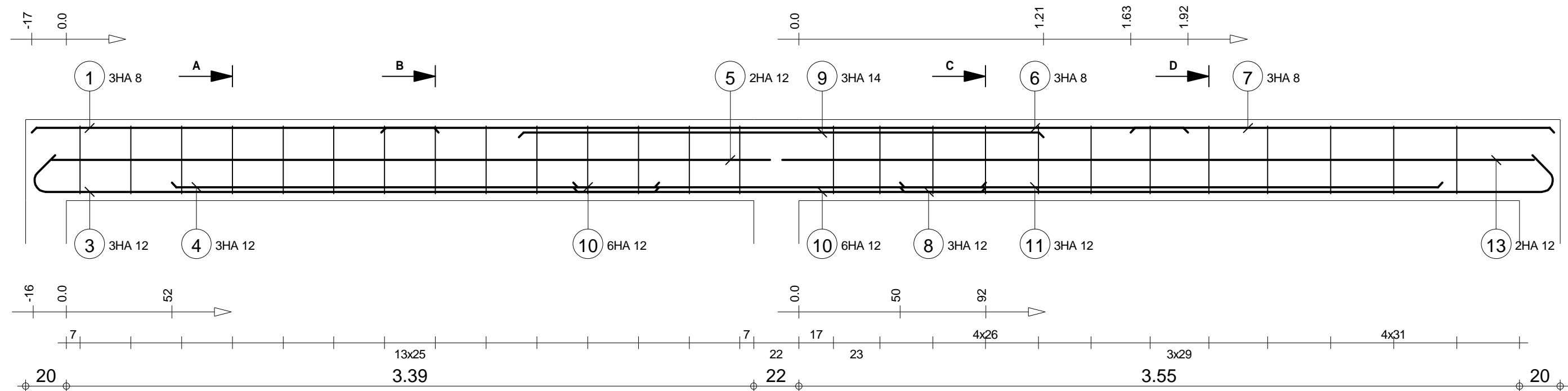
C-C

D-D

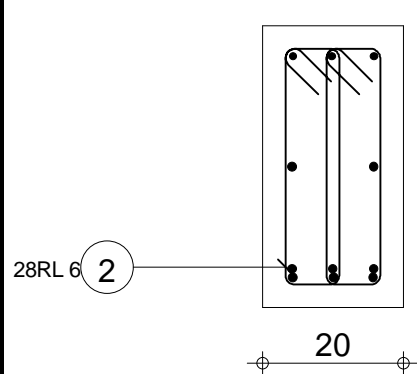


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 10	l=68	00	④	3HA 8	l=3.64	00
②	3HA 12	l=4.02	00	⑤	20RL 6	l=1.76	31
③	3HA 12	l=3.33	00	⑥	3*2HA 12	l=3.34	00

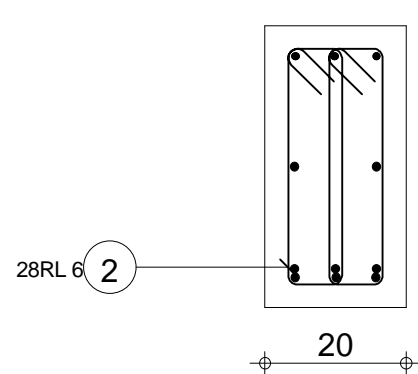
R+1 PROJET CERME_PLANS GUIDES		POUTRE 6 Section 20x80		Nombre 1		Béton : BETON25 = 0.592 m3		Acier HA 400 = 44.2 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 7.81 kg	
						Densité = 87.84 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 6.86 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 6.6cm/m		Echelle pour la section 5.05cm/m	
								Page 1/1	



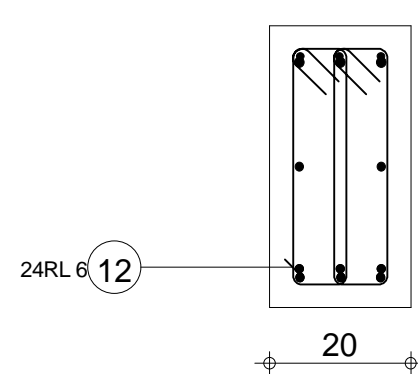
A-A



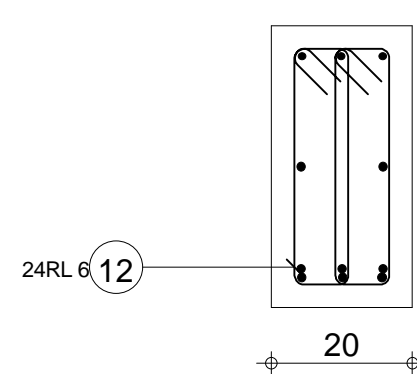
B-B



C-C



D-D



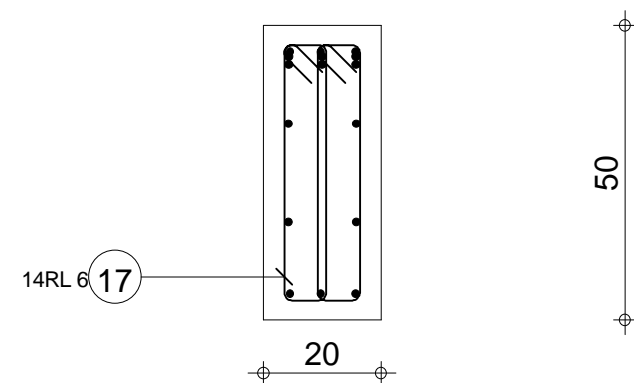
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme						
①	3HA 8	l=2.00	00		④	3HA 12	l=2.40	00		⑦	3HA 8	l=2.09	00		⑩	6HA 12	l=2.03	00		⑬	2HA 12	l=3.70	00		
②	28RL 6	l=96	31		⑤	2HA 12	l=3.54	00		⑧	3HA 12	l=3.41	00		⑪	3HA 12	l=2.67	00							
③	3HA 12	l=3.27	00		⑥	3HA 8	l=3.97	00		⑨	3HA 14	l=2.58	00		⑫	24RL 6	l=96	31							
Tél.												Fax													
R+1 PROJET CERME_PLANS GUIDES					POUTRE 8 Section 20x40										Nombre 1		Béton : BETON25 = 0.605 m3			Acier HA 400 = 73.9 kg Acier RL 235 = 11.1 kg					
																	Enrobage inférieur 3 cm			Enrobage supérieur 3 cm			Enrobage latéral 3 cm		
																	Densité = 140.5 kg/ m3			Echelle pour la vue 4.78cm/m			Page 1/1		
																	Surface du coffrage = 7.59 m2			Echelle pour la section 9.34cm/m					

A-A

B-B

C-C

D-D



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12 l=1.87	00		④	3HA 12 l=2.05	00		⑦	3HA 8 l=3.91	00		⑩	3HA 14 l=2.78	00		⑬	26RL 6 l=1.16	31	
②	22RL 6 l=1.16	31		⑤	3HA 12 l=2.35	00		⑧	2*2HA 12 l=3.57	00		⑪	3HA 12 l=3.34	00		⑭	2*2HA 12 l=3.59	00	
③	3HA 12 l=3.26	00		⑥	3HA 8 l=2.08	00		⑨	3HA 14 l=4.25	00		⑫	3HA 8 l=3.68	00		⑮	3HA 8 l=1.67	00	

R+1

PROJET CERME_PLANS GUIDES

Tél.

Fax

POUTRE 9

Section 20x50

Nombre 1

Béton : BETON25 = 0.916 m3

Enrobage inférieur 3 cm

Densité = 131 kg/ m3

Surface du coffrage = 11 m2

Acier HA 400 = 105 kg

Enrobage supérieur 3 cm

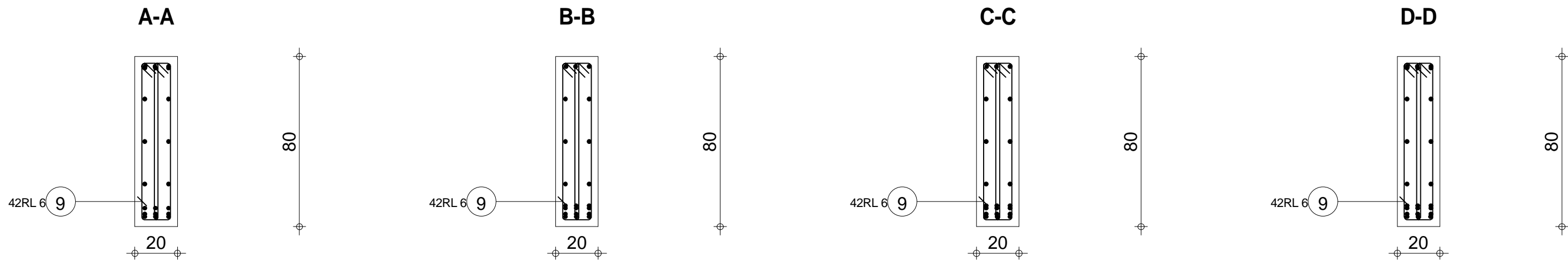
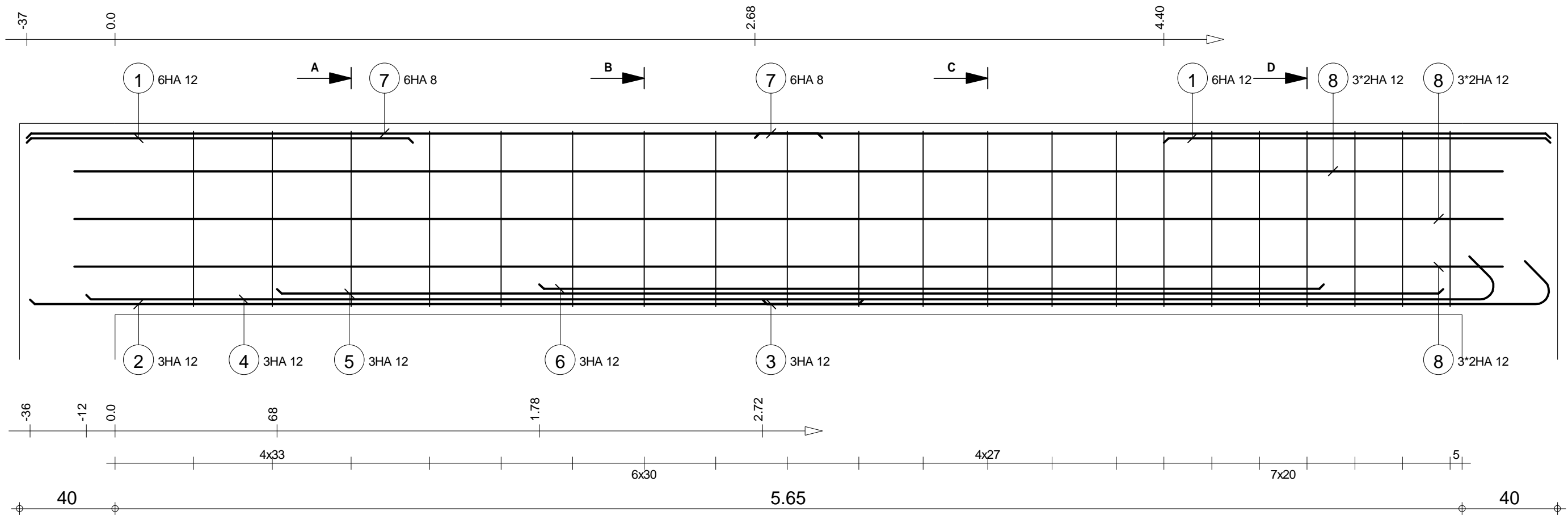
Echelle pour la vue 3.97cm/m

Echelle pour la section 7.8cm/m

Enrobage latéral 3 cm

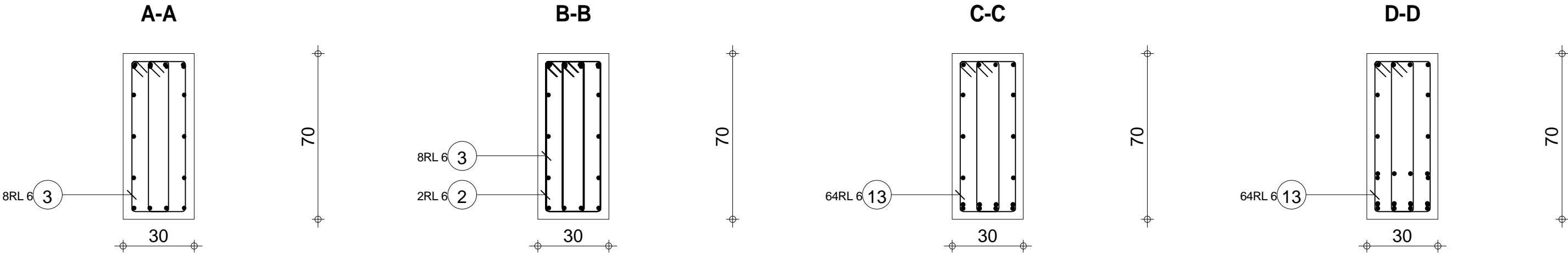
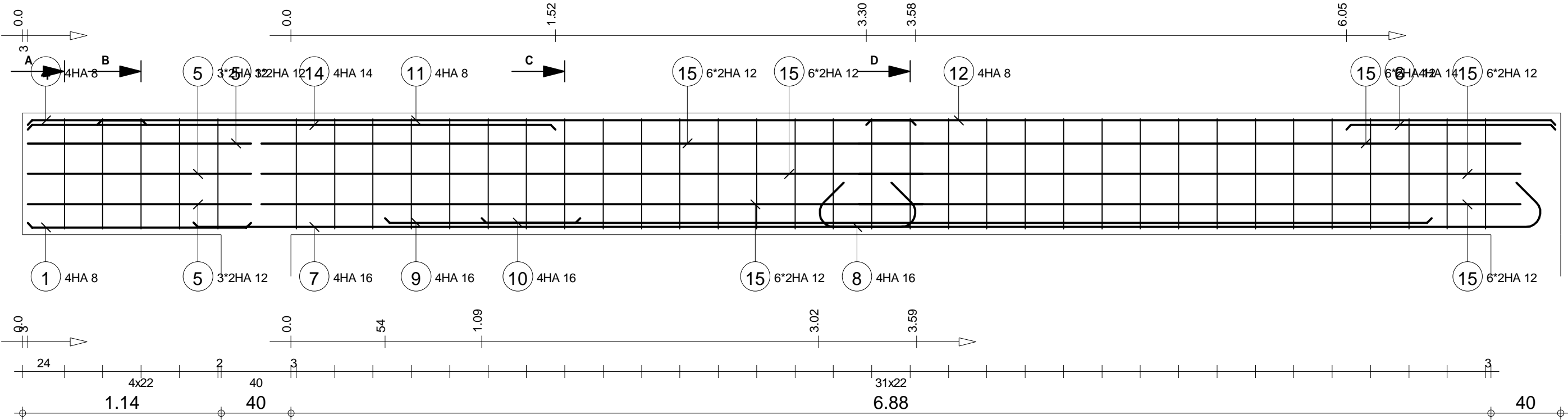
Page 1/2

Pos.	Armature	Code	Forme
16	2*2HA 12 l=1.67	00	<div>1.67</div>
17	14RL 6 l=1.15*	31	<div><div>8</div><div>8</div><div>14</div></div>

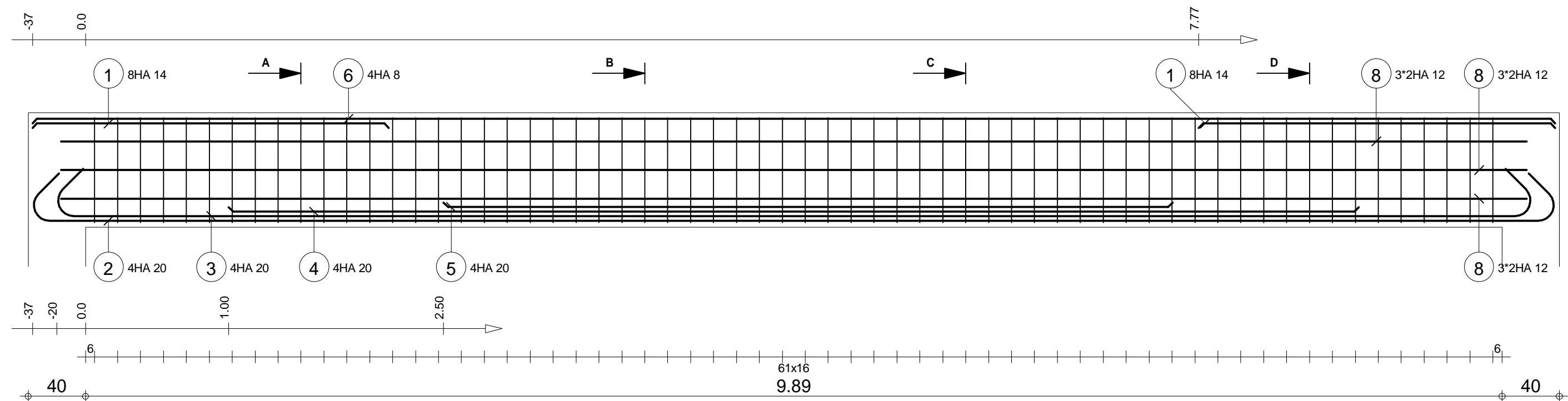


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 12	l=1.62	00	④	3HA 12	l=6.10	00	⑦	6HA 8	l=3.34	00
②	3HA 12	l=3.49	00	⑤	3HA 12	l=4.89	00	⑧	3*2HA 12	l=5.99	00
③	3HA 12	l=3.49	00	⑥	3HA 12	l=3.29	00	⑨	42RL 6	l=1.76	31

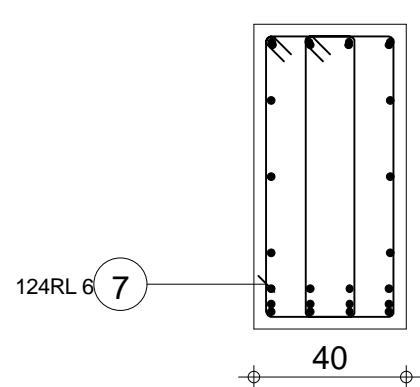
R+1 PROJET CERME_PLANS GUIDES		POUTRE 10 Section 20x80		Nombre 1		Béton : BETON25 = 1.03 m3		Acier HA 400 = 105 kg	
						Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 117.5 kg/ m3		Echelle pour la vue 5.57cm/m	
						Surface du coffrage = 11.8 m2		Echelle pour la section 5.05cm/m	
								Page 1/1	



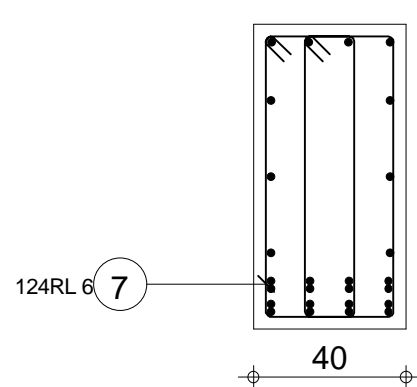
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	4HA 8	l=1.28	00	④	4HA 8	l=68	00	⑦	4HA 16	l=4.41	00	⑩	4HA 16	l=5.45	00	⑬	64RL 6	l=1.73	31
②	2RL 6	l=1.73	31	⑤	3*2HA 12	l=1.28	00	⑧	4HA 16	l=4.68	00	⑪	4HA 8	l=4.69	00	⑭	4HA 14	l=3.03	00
③	8RL 6	l=1.72	31	⑥	4HA 14	l=1.20	00	⑨	4HA 16	l=1.12	00	⑫	4HA 8	l=3.95	00	⑮	6*2HA 12	l=3.79	00
Tél.								Fax				Nombre 1							
R+1				POUTRE 12				Section 30x70				Béton : BETON25 = 1.85 m3				Acier HA 400 = 183 kg			
												Enrobage inférieur 3 cm				Acier RL 235 = 28.4 kg			
												Enrobage supérieur 3 cm				Enrobage latéral 3 cm			
PROJET CERME_PLANS GUIDES												Densité = 114.6 kg/ m3				Echelle pour la vue 4.12cm/m			
												Surface du coffrage = 15.2 m2				Echelle pour la section 5.71cm/m			
																Page 1/1			



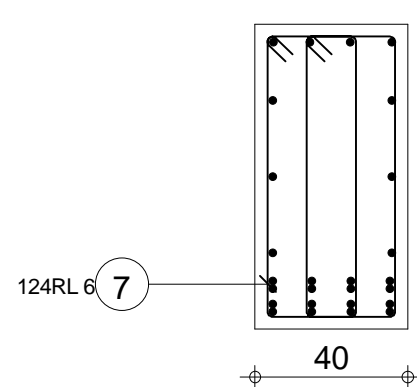
A-A



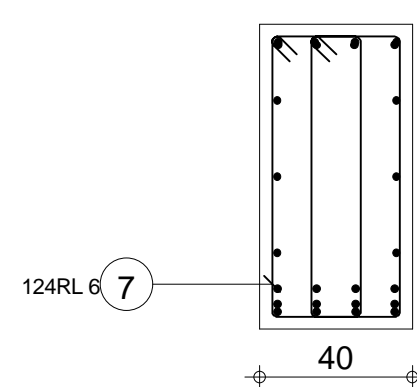
B-B











C-C



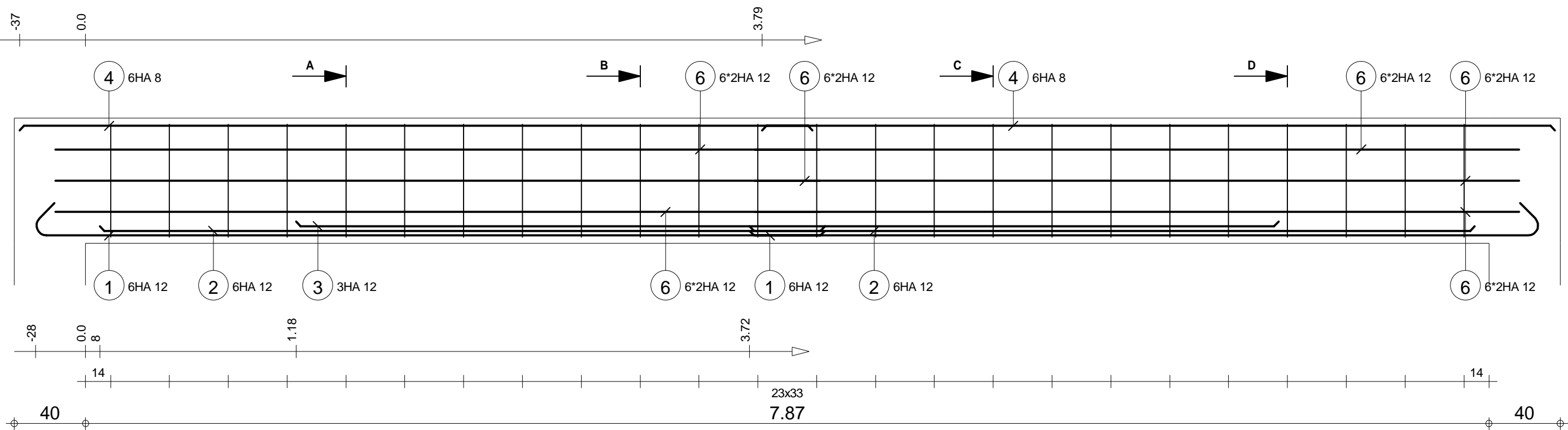
D-D



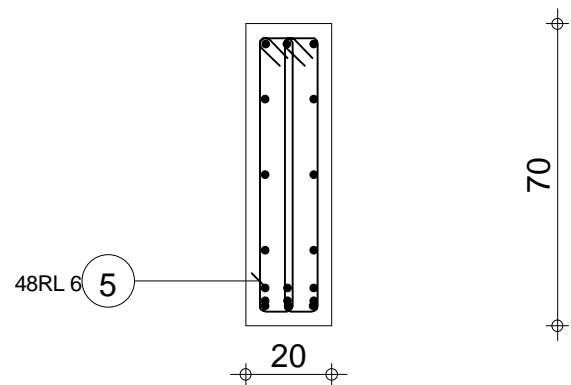
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 14 l=2.49	00		④	4HA 20 l=7.89	00		⑦	124RL 6 l=2.07	31	
②	4HA 20 l=11.31	00		⑤	4HA 20 l=5.09	00		⑧	3*2HA 12 l=10.23	00	
③	4HA 20 l=10.97	00		⑥	4HA 8 l=10.63	00					

		Tél.		Fax						Acier HA 400 = 443 kg	
R+1 PROJET CERME_PLANS GUIDES	POUTRE 13 Section 40x80	Nombre 1			Béton : BETON25 = 3.42 m3				Acier RL 235 = 56.9 kg		
					Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		
					Densité = 146.2 kg/ m3 Surface du coffrage = 21.7 m2		Echelle pour la vue 3.42cm/m Echelle pour la section 5.05cm/m		Page 1/1		

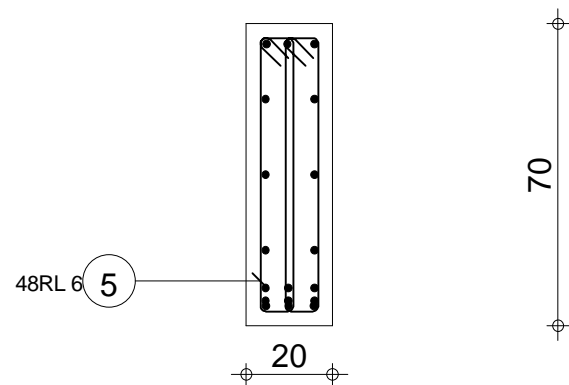
Pos.	Armature		Code	Forme
16	3HA 10	l=2.23	00	<div>2.23</div>
17	36HA 6	l=1.16	31	<div><div>8</div><div>4</div><div>8</div></div>
18	4*2HA 12	l=3.75	00	<div>3.75</div>
19	4HA 6	l=1.16	31	<div><div>8</div><div>4</div><div>8</div></div>
20	3HA 10	l=49	00	<div>49</div>



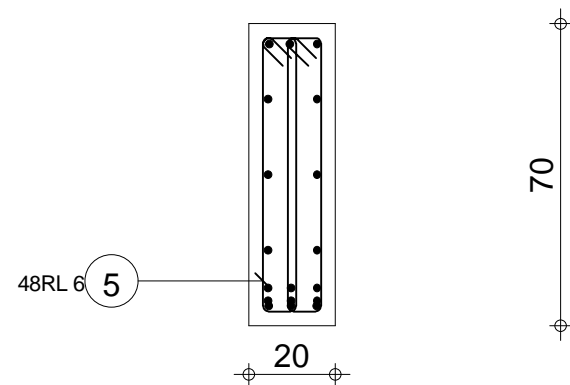
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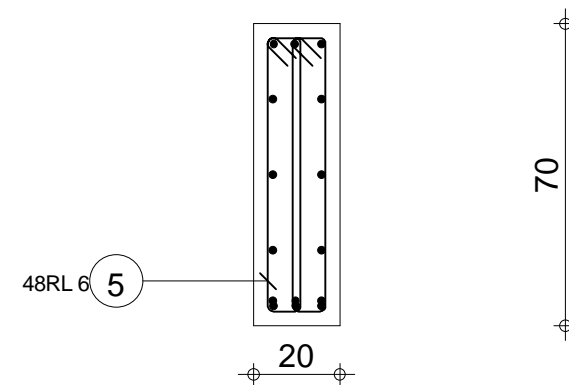
B-B



C-C

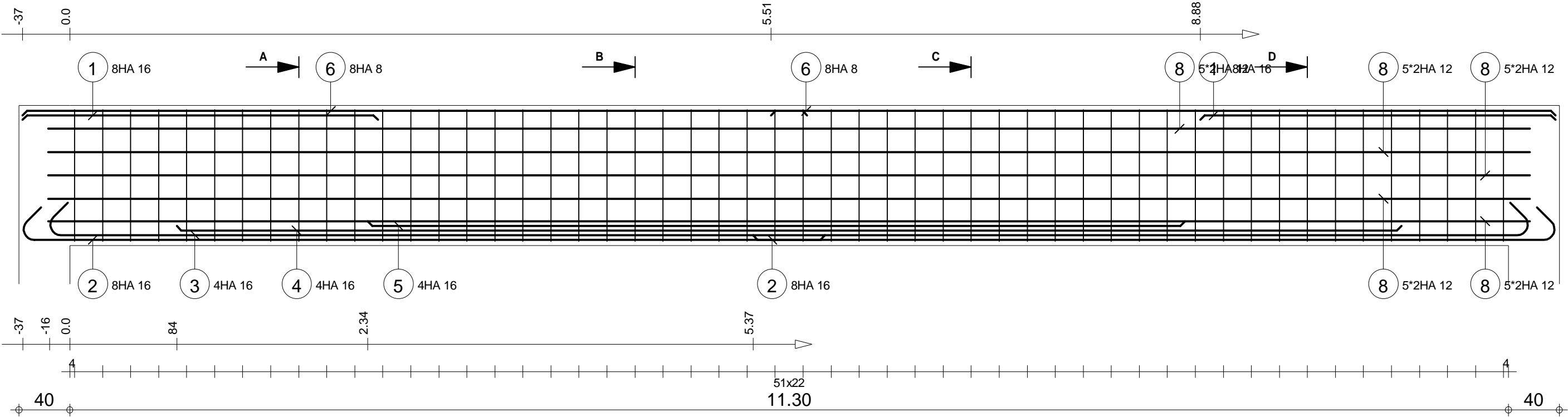


D-D



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 12	l=4.62	00	④	6HA 8	l=4.45	00
②	6HA 12	l=4.07	00	⑤	48RL 6	l=1.56	31
③	3HA 12	l=5.51	00	⑥	6*2HA 12	l=4.29	00

R+1 PROJET CERME_PLANS GUIDES		POUTRE 15 Section 20x70		Nombre 1		Béton : BETON25 = 1.21 m3		Acier HA 400 = 117 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 16.6 kg	
						Densité = 110.7 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 14 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.18cm/m		Echelle pour la section 5.71cm/m	
								Page 1/1	

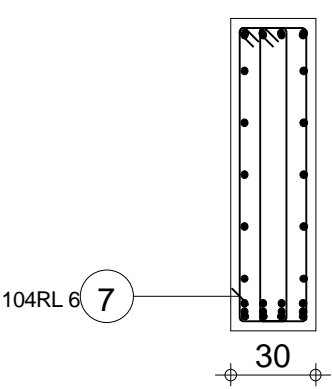
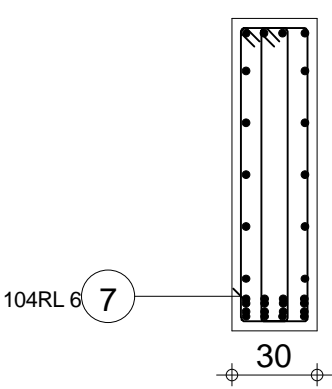
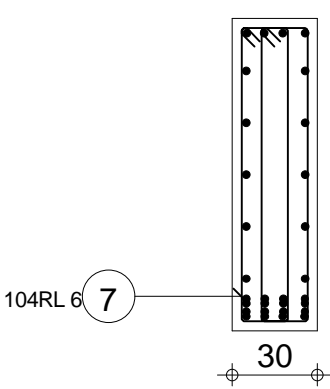
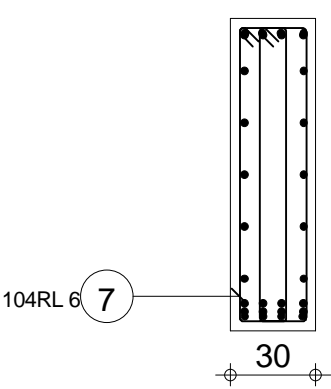


A-A

B-B

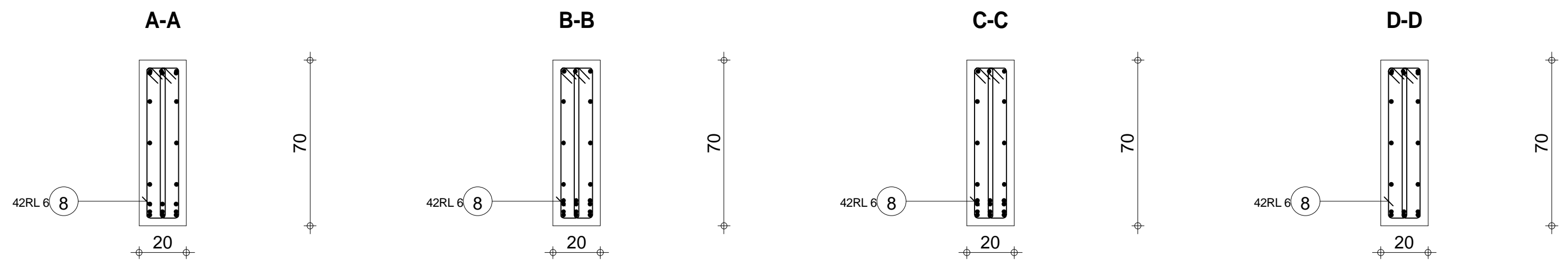
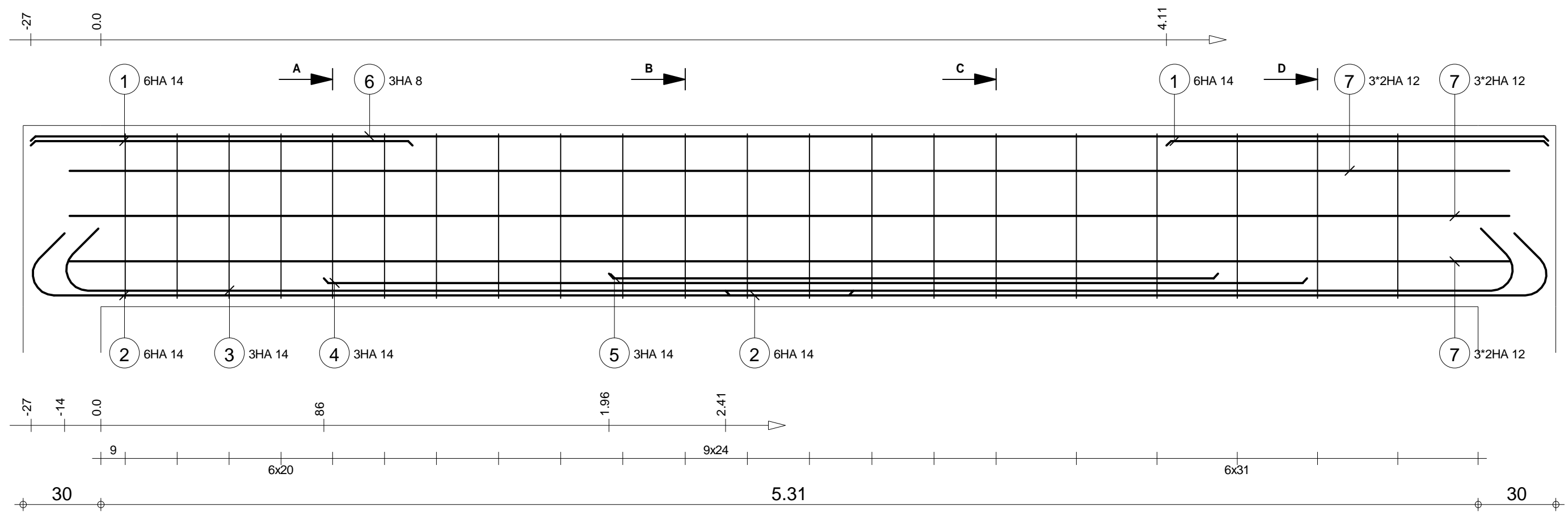
C-C









D-D



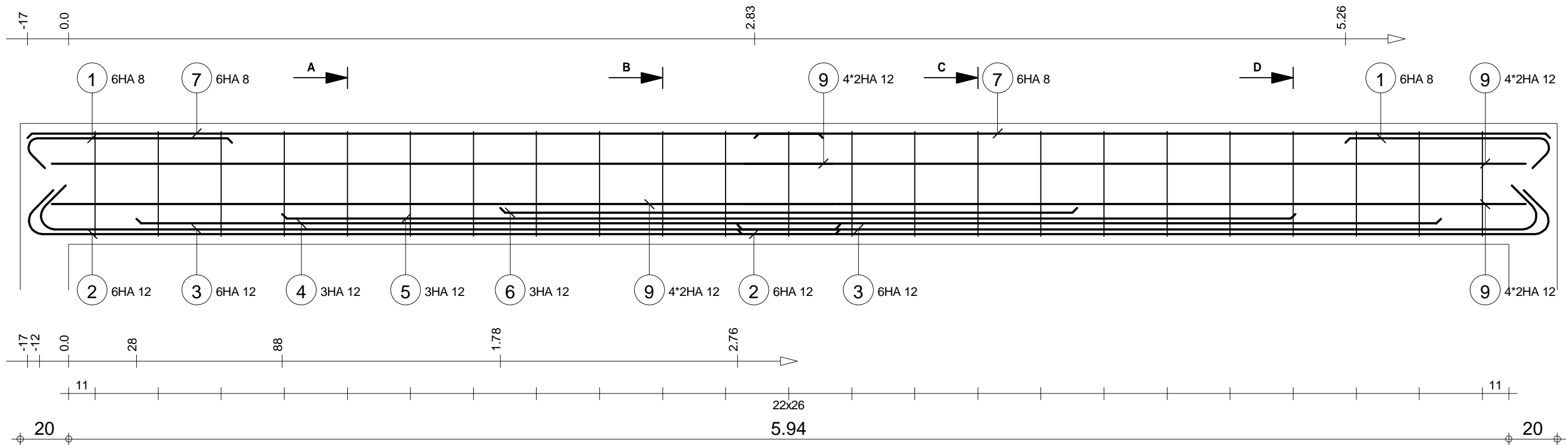
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 16	l=2.79	00	④	4HA 16	l=9.62	00	⑦	104RL 6	l=2.53	31
②	8HA 16	l=6.57	00	⑤	4HA 16	l=6.42	00	⑧	5*2HA 12	l=11.64	00
③	4HA 16	l=12.15	00	⑥	8HA 8	l=6.16	00				

R+1 PROJET CERME_PLANS GUIDES		POUTRE 16 AVEC REMONTEE DE 35CM Section 30x110		Nombre 1		Béton : BETON25 = 3.99 m3		Acier HA 400 = 419 kg	
						Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 119.5 kg/ m3		Echelle pour la vue 3.03cm/m	
						Surface du coffrage = 30.7 m2		Echelle pour la section 3.76cm/m	
								Enrobage latéral 3 cm	
								Page 1/1	

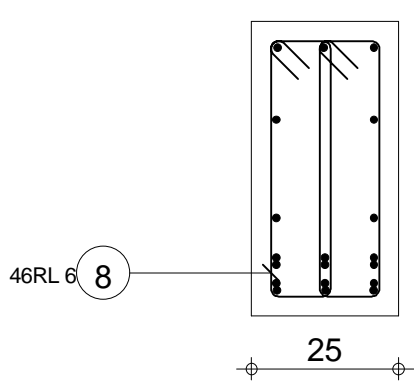


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme			
①	6HA 14	l=1.47	00		④	3HA 14	l=3.79	00		⑦	3*2HA 12	l=5.55	00	
②	6HA 14	l=3.42	00		⑤	3HA 14	l=2.35	00		⑧	42RL 6	l=1.56	31	
③	3HA 14	l=6.08	00		⑥	3HA 8	l=5.85	00						

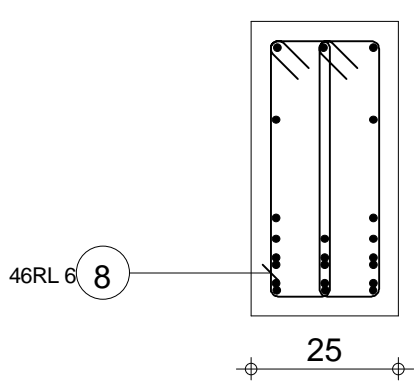
R+1 PROJET CERME_PLANS GUIDES		POUTRE 17 Section 20x70		Nombre 1		Tél.		Fax			
						Béton : BETON25 = 0.828 m3		Acier HA 400 = 116 kg			
						Enrobage inférieur 3 cm		Acier RL 235 = 14.5 kg			
						Densité = 158.2 kg/ m3		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
						Surface du coffrage = 9.62 m2		Echelle pour la vue 6.05cm/m		Echelle pour la section 5.71cm/m	
										Page 1/1	



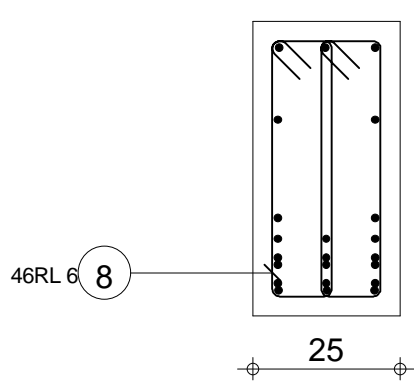
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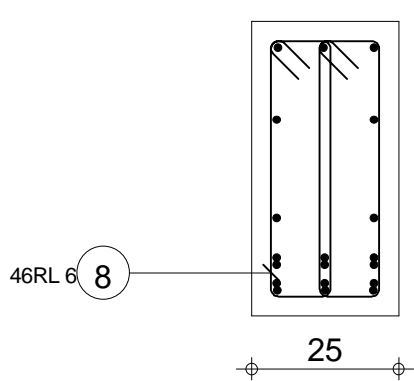
B-B



C-C

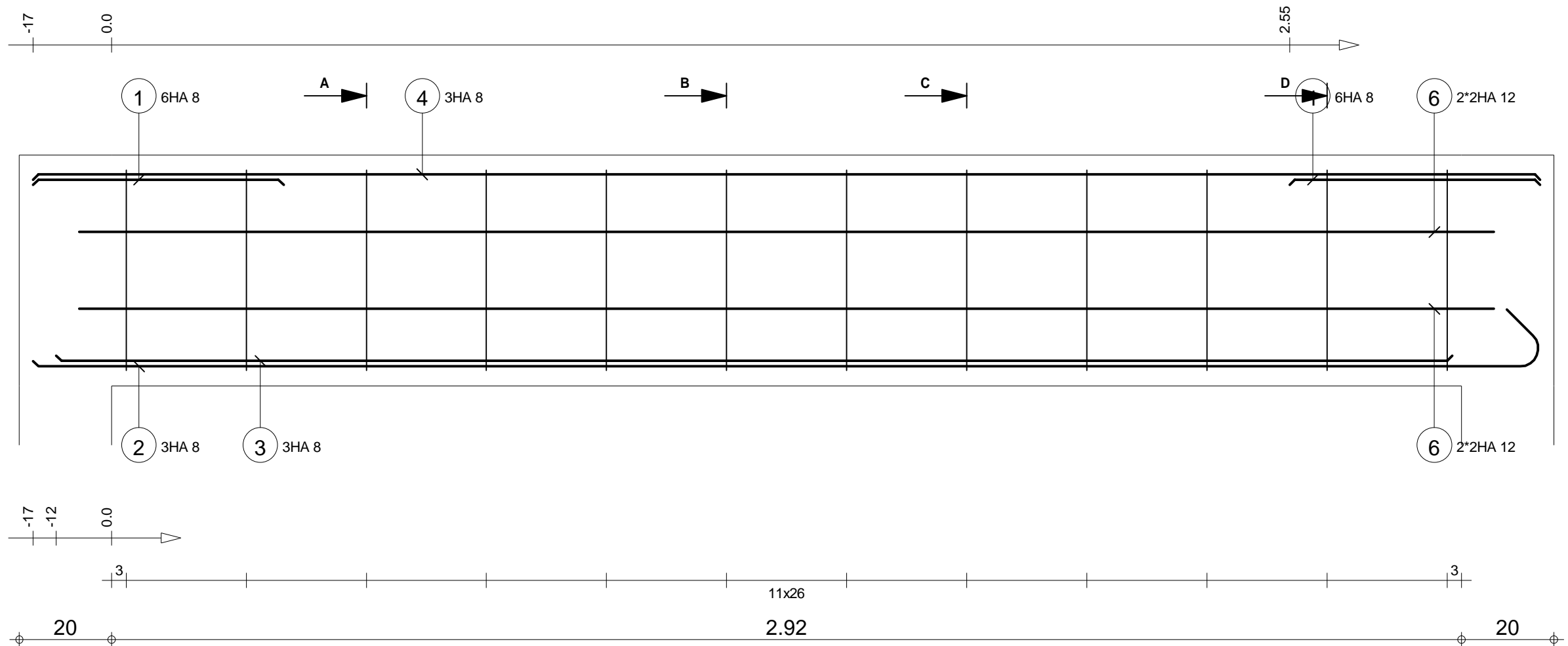


D-D

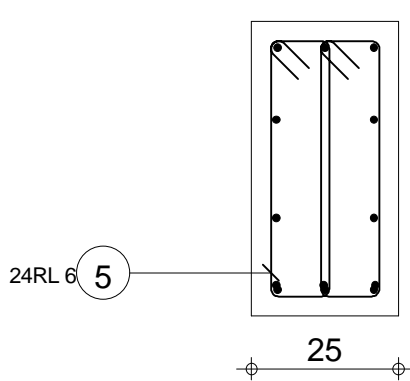


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 8	l=97	00	④	3HA 12	l=5.38	00	⑦	6HA 8	l=3.28	00
②	6HA 12	l=3.54	00	⑤	3HA 12	l=4.18	00	⑧	46RL 6	l=1.21	31
③	6HA 12	l=3.49	00	⑥	3HA 12	l=2.38	00	⑨	4*2HA 12	l=3.22	00

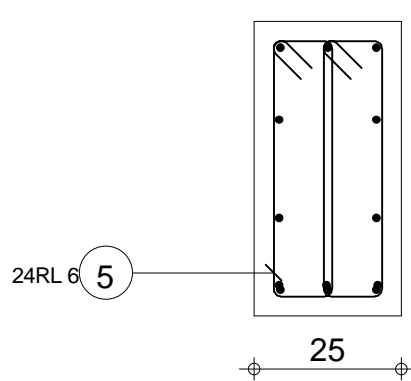
R+1				POUTRE 18				Nombre 1				Béton : BETON25 = 0.792 m3		Acier HA 400 = 102 kg	
PROJET CERME_PLANS GUIDES				Section 25x50								Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
												Densité = 145.2 kg/ m3		Echelle pour la vue 5.67cm/m	
												Surface du coffrage = 8.07 m2		Echelle pour la section 7.8cm/m	
														Page 1/1	



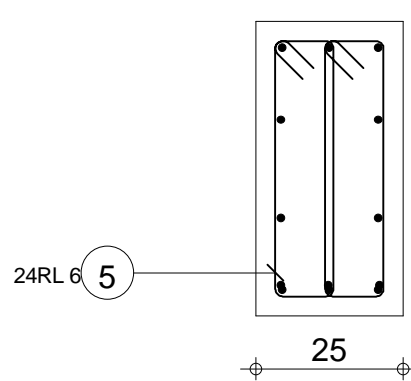
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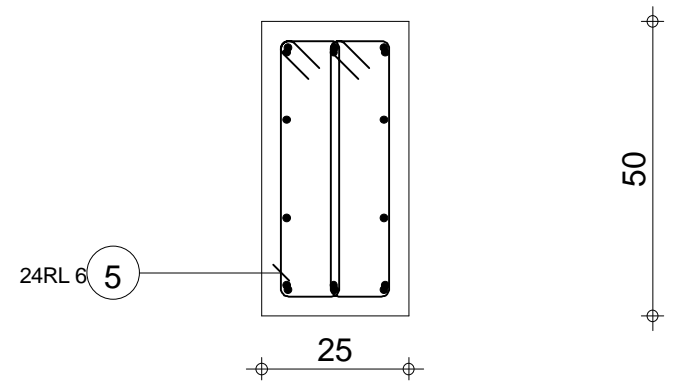
B-B



C-C

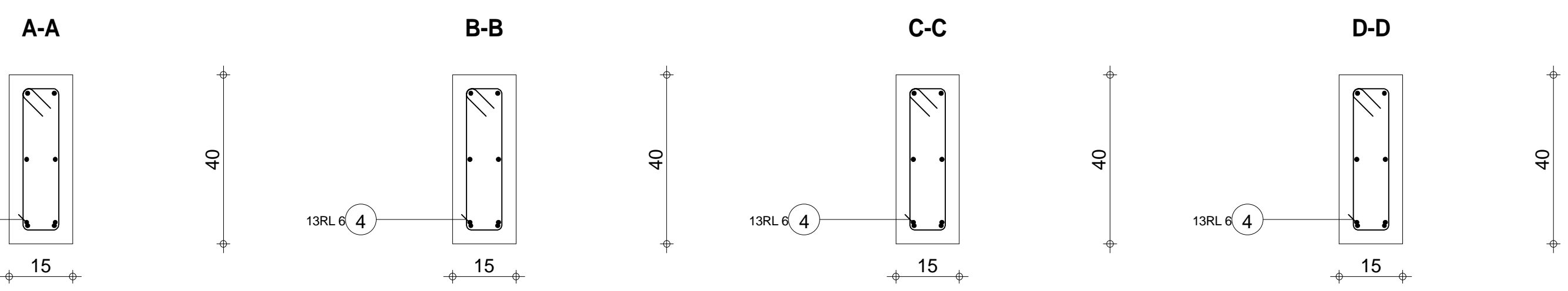
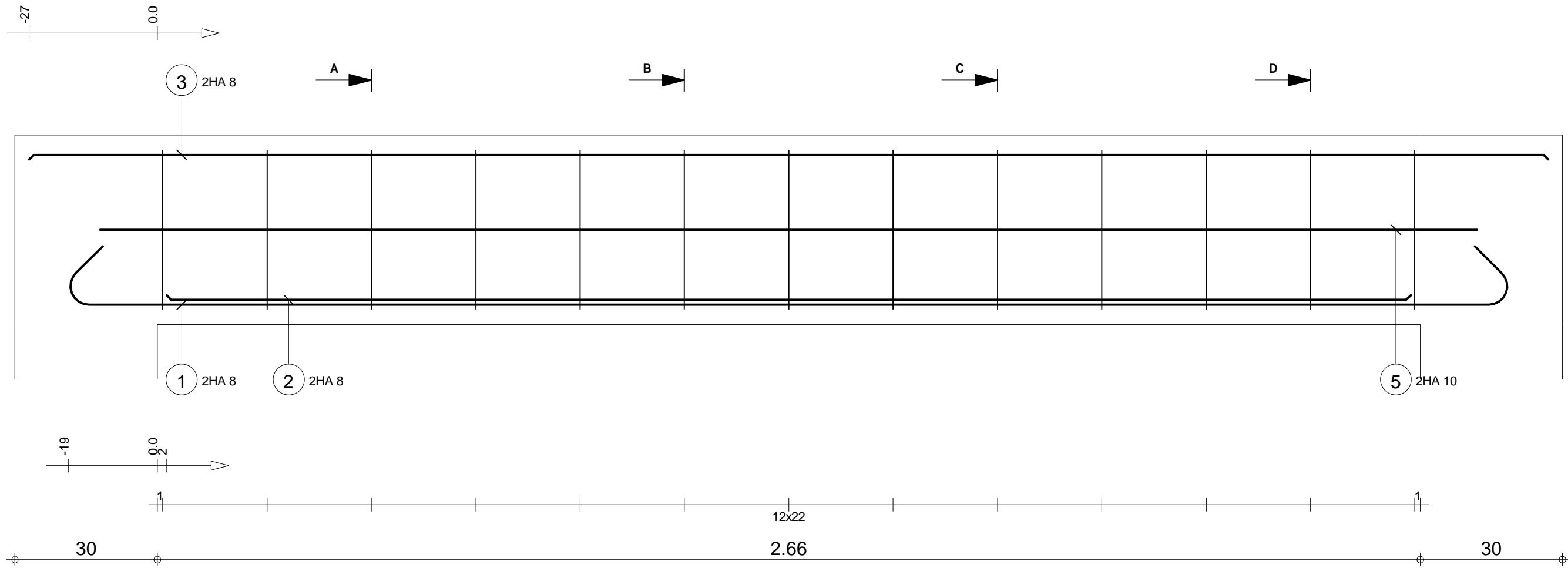







D-D



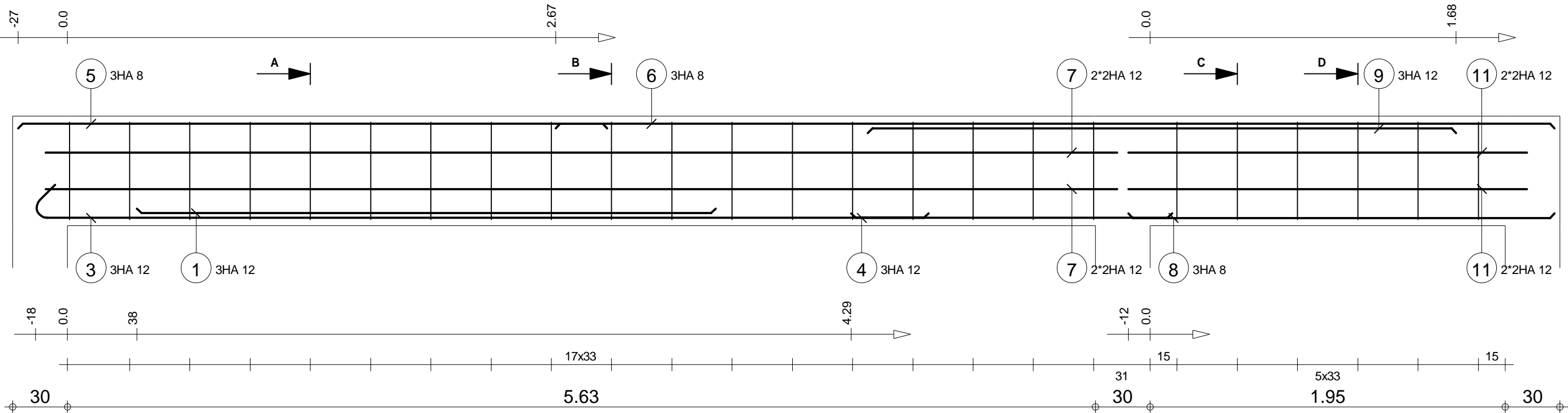
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 8	l=54	00	④	3HA 8	l=3.26	00
②	3HA 8	l=3.39	00	⑤	24RL 6	l=1.21	31
③	3HA 8	l=3.02	00	⑥	2*2HA 12	l=3.06	00

R+1		POUTRE 19		Nombre 1		Béton : BETON25 = 0.415 m3		Acier HA 400 = 23.6 kg	
PROJET CERME_PLANS GUIDES		Section 25x50				Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 72.29 kg/ m3		Echelle pour la vue 9.33cm/m	
						Surface du coffrage = 4.3 m2		Echelle pour la section 7.8cm/m	
								Page 1/1	



Pos.	Armature		Code	Forme	Pos.	Armature		Code	Forme
①	2HA 8	l=3.29	00		④	13RL 6	l=98	31	
②	2HA 8	l=2.62	00		⑤	2HA 10	l=2.90	00	
③	2HA 8	l=3.20	00						

<div>R+1</div> <div>PROJET CERME_PLANS GUIDES</div>		<div>POUTRE 20</div> <div>Section 15x40</div>		Tél.		Fax				Acier HA 400 = 10.8 kg			
										Acier RL 235 = 2.81 kg			
								Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
								Densité = 69.39 kg/ m3		Echelle pour la vue 10.7cm/m		Page 1/1	
				Surface du coffrage = 3.13 m2		Echelle pour la section 9.55cm/m							

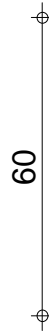
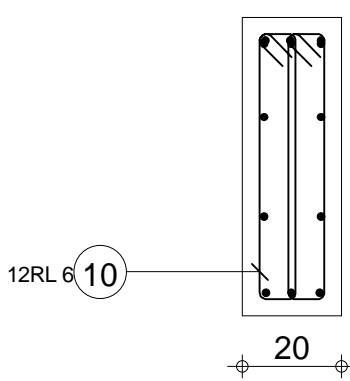
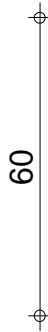
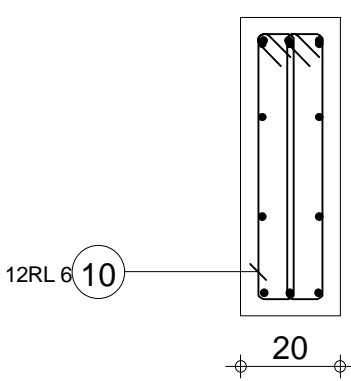
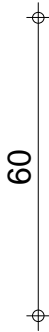
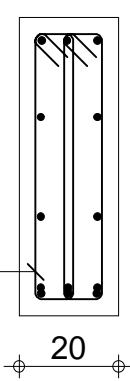
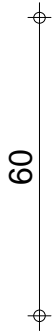
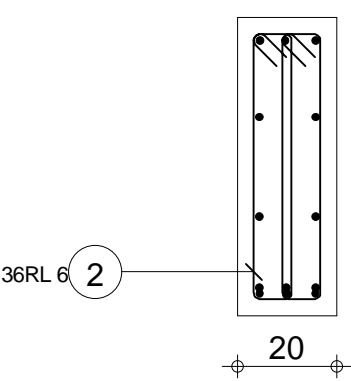


A-A

B-B

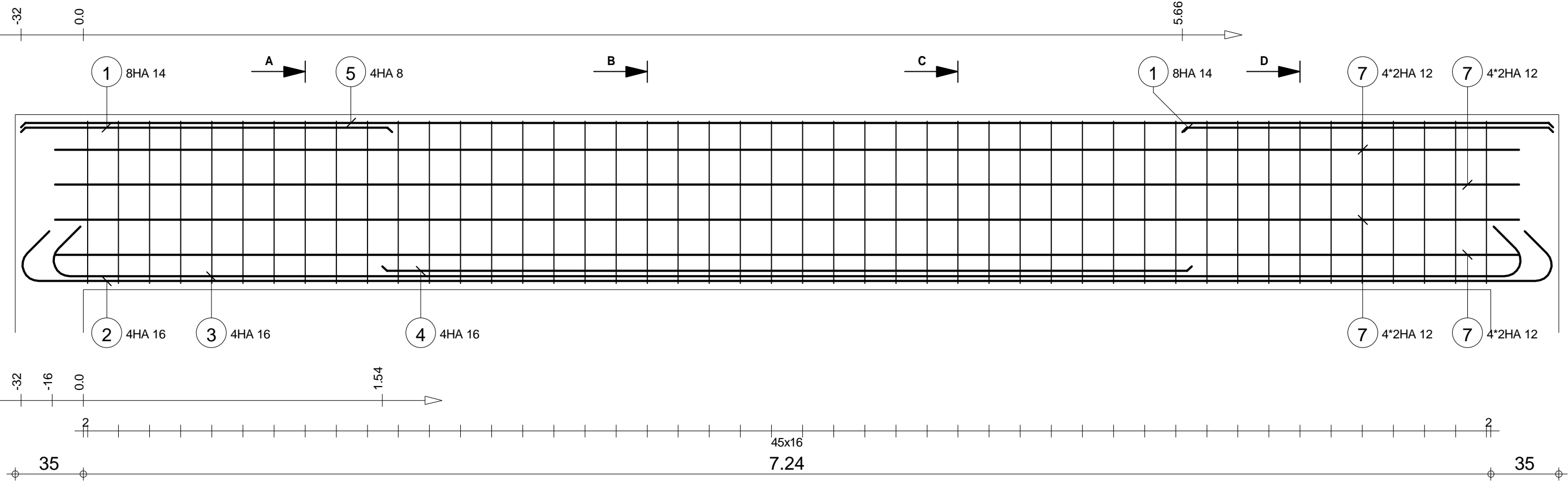
C-C

D-D

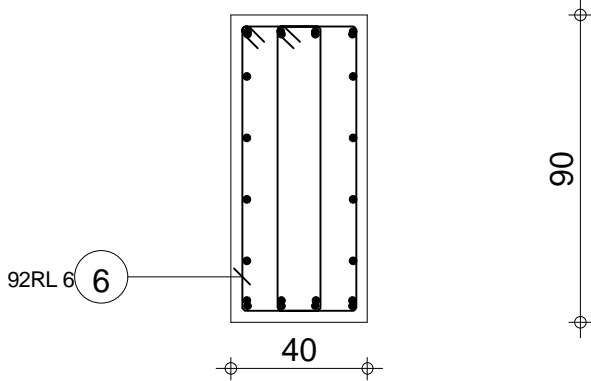


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme				
①	3HA 12	l=3.17	00		④	3HA 12	l=1.76	00		⑦	2*2HA 12	l=5.87	00		⑩	12RL 6	l=1.35	31	
②	36RL 6	l=1.36	31		⑤	3HA 8	l=3.23	00		⑧	3HA 8	l=2.34	00		⑪	2*2HA 12	l=2.19	00	
③	3HA 12	l=5.08	00		⑥	3HA 8	l=5.47	00		⑨	3HA 12	l=3.22	00						

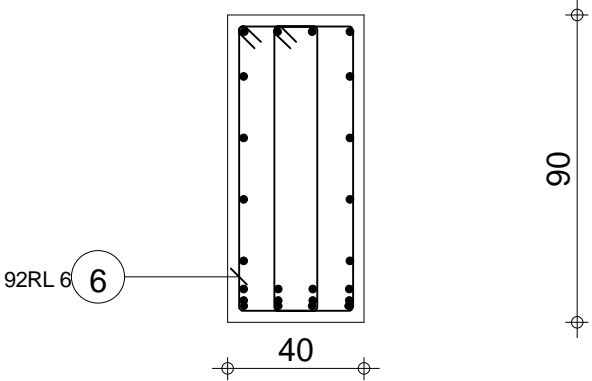
		Tél.	Fax			Acier HA 400 = 76.9 kg			
R+1	POUTRE 21	Nombre 1	Section 20x60	Béton : BETON25 = 1.02 m3		Acier RL 235 = 14.5 kg			
				Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
				Densité = 89.61 kg/ m3		Echelle pour la vue 4.28cm/m		Page 1/1	
				Surface du coffrage = 11.9 m2		Echelle pour la section 6.58cm/m			
PROJET CERME_PLANS GUIDES									



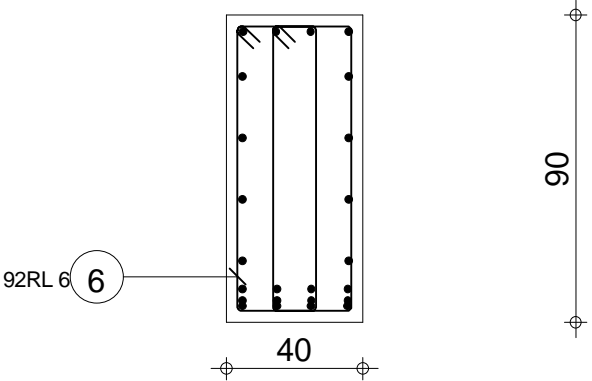
A-A



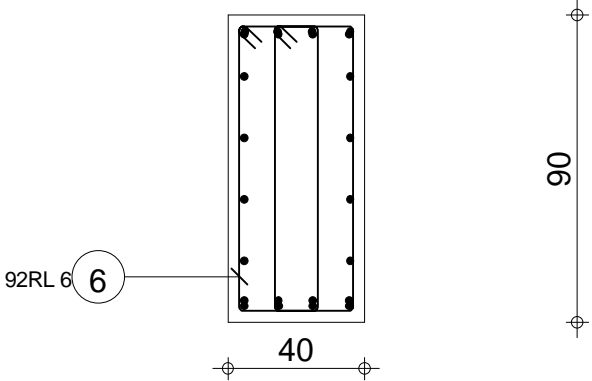
B-B



C-C

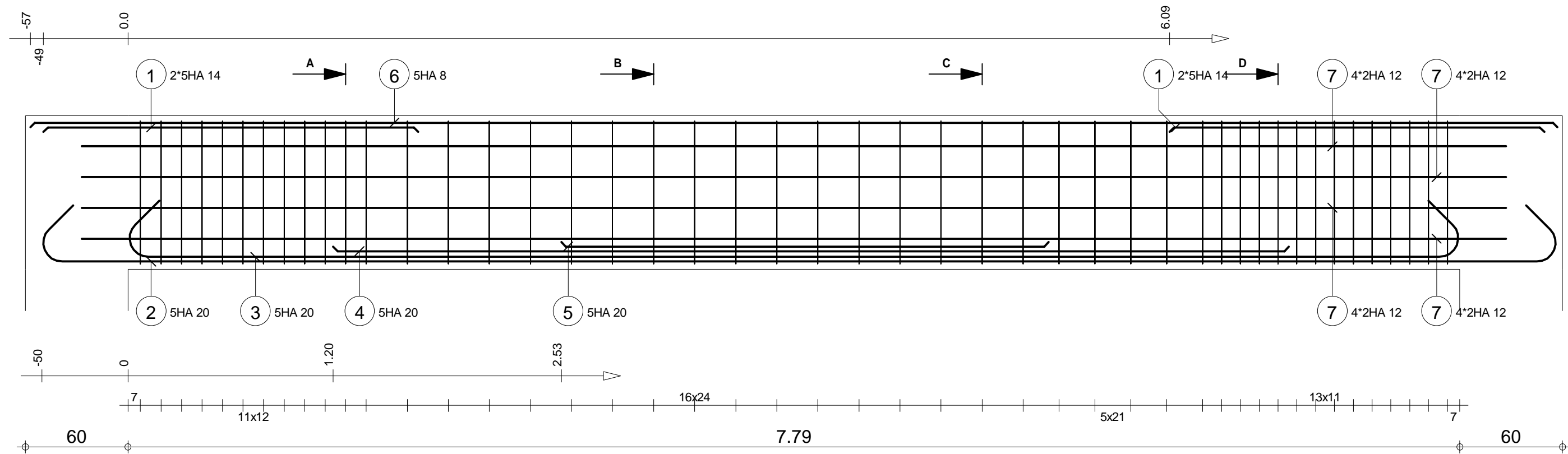


D-D

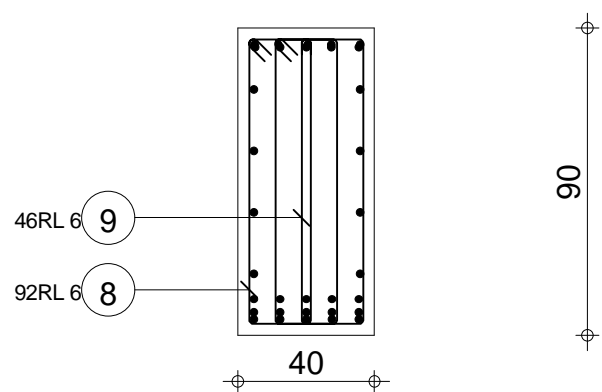


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 14	l=1.91	00	④	4HA 16	l=4.16	00	⑦	4*2HA 12	l=7.53	00
②	4HA 16	l=8.41	00	⑤	4HA 8	l=7.88	00				
③	4HA 16	l=8.09	00	⑥	92RL 6	l=2.27	31				

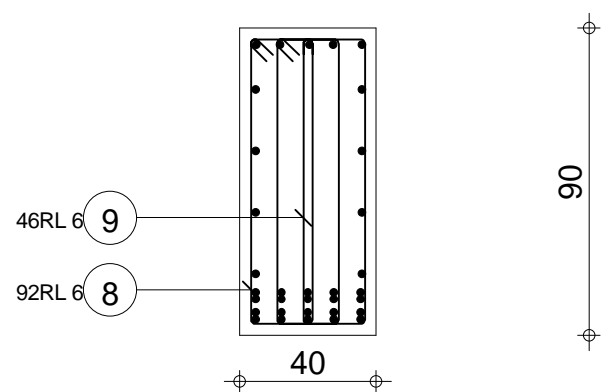
R+1 PROJET CERME_PLANS GUIDES				POUTRE 22 Section 40x90				Nombre 1		Béton : BETON25 = 2.86 m3		Acier HA 400 = 215 kg	
										Enrobage inférieur 3 cm		Acier RL 235 = 46.3 kg	
										Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
										Densité = 91.26 kg/ m3		Echelle pour la vue 4.55cm/m	
										Surface du coffrage = 17.9 m2		Echelle pour la section 4.52cm/m	
												Page 1/1	



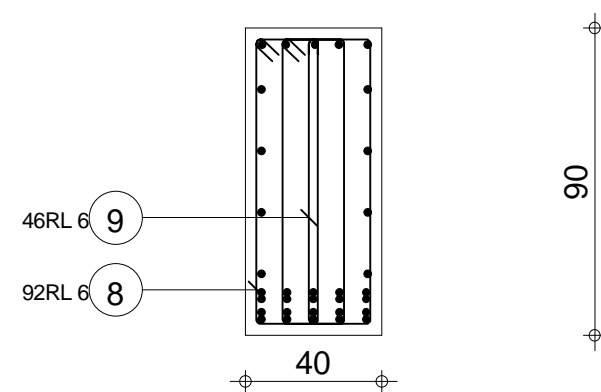
A-A



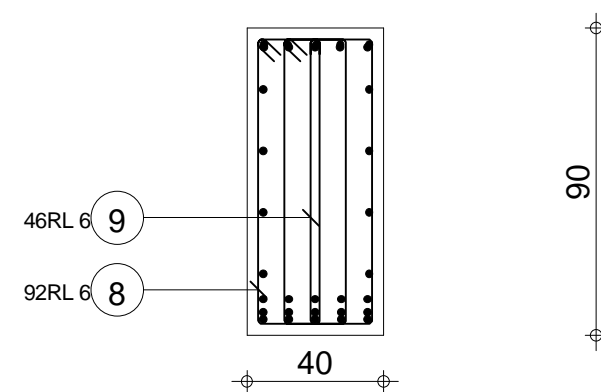
B-B



C-C

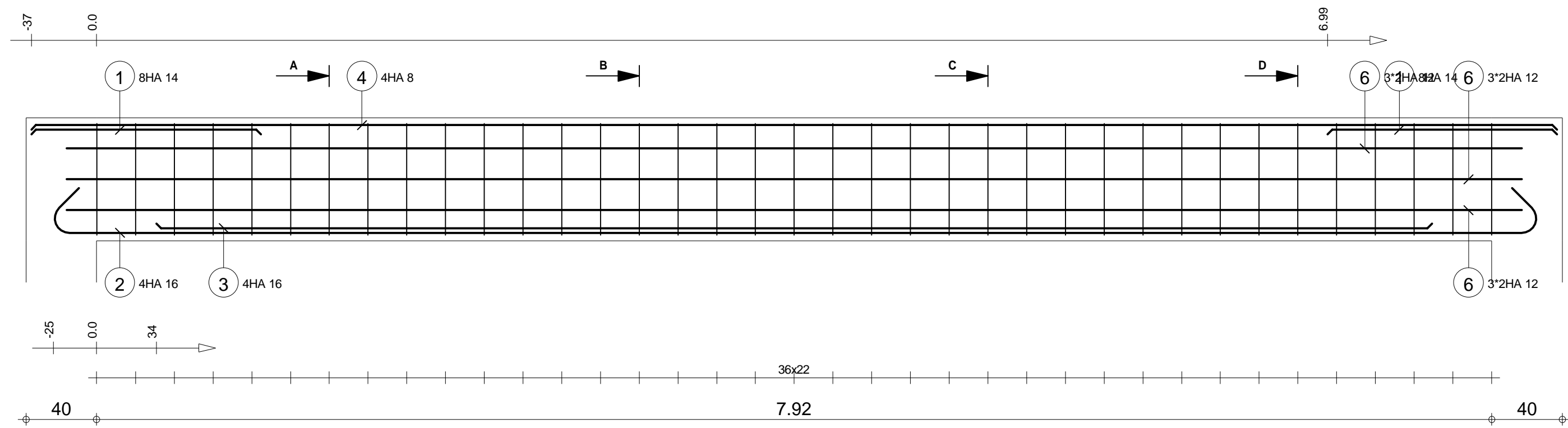


D-D

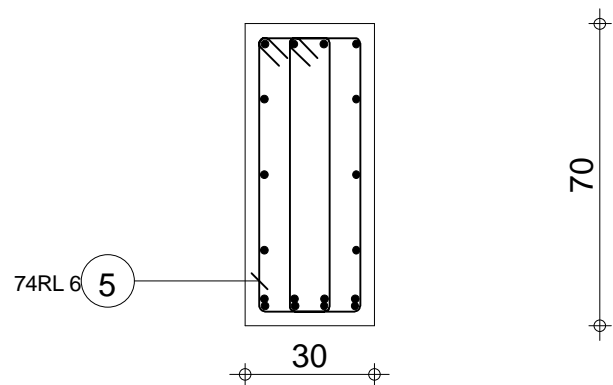


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	2*5HA 14	l=2.19	00	④	5HA 20	l=5.59	00	⑦	4*2HA 12	l=8.33	00
②	5HA 20	l=9.54	00	⑤	5HA 20	l=2.85	00	⑧	92RL 6	l=2.32	31
③	5HA 20	l=8.46	00	⑥	5HA 8	l=8.93	00	⑨	46RL 6	l=1.80	

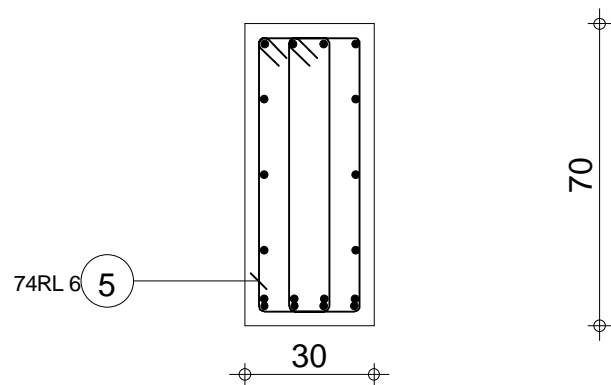
R+1 PROJET CERME_PLANS GUIDES	POUTRE 23 Section 40x90	Nombre 1	Tél.	Fax	Béton : BETON25 = 3.24 m3		Acier HA 400 = 429 kg	
			Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
			Densité = 152.8 kg/ m3		Echelle pour la vue 4.04cm/m		Page 1/1	
			Surface du coffrage = 20 m2		Echelle pour la section 4.52cm/m			



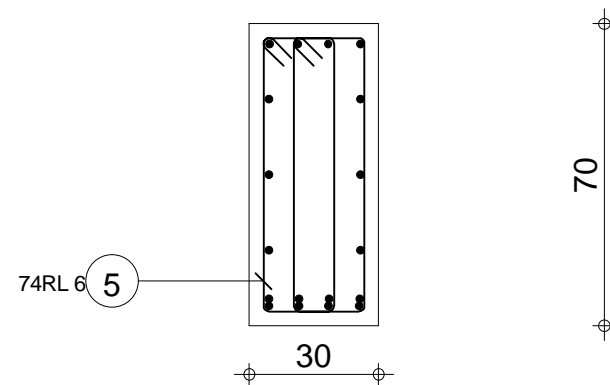
A-A



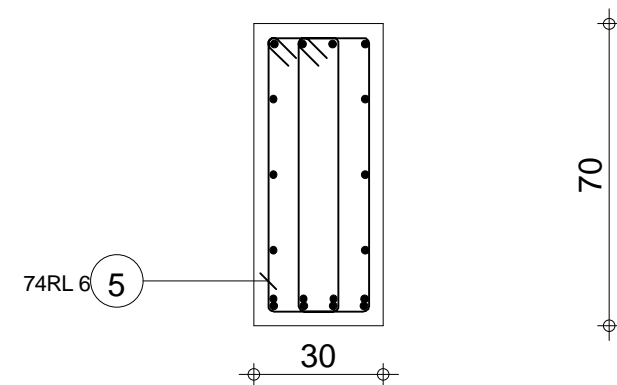
B-B



C-C

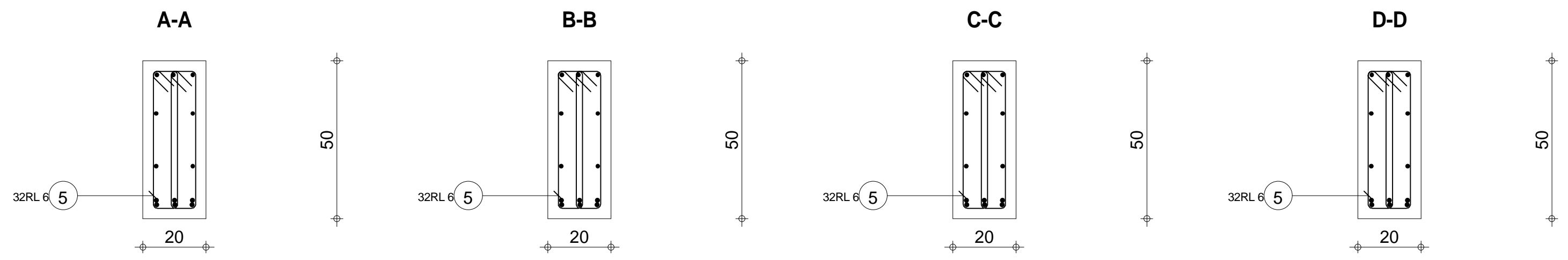
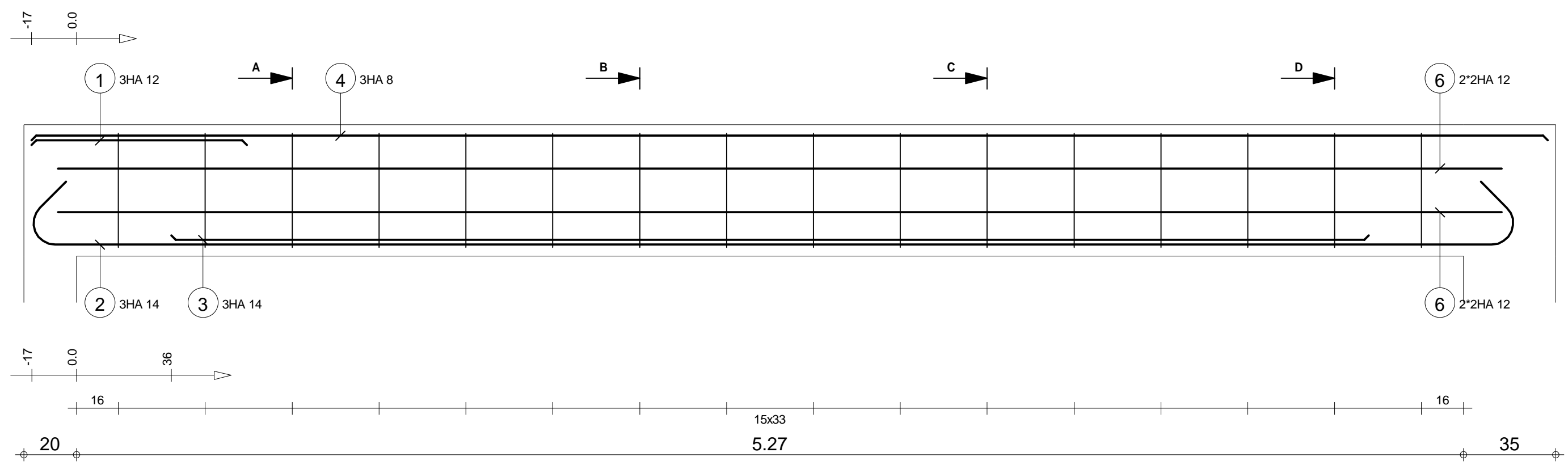


D-D

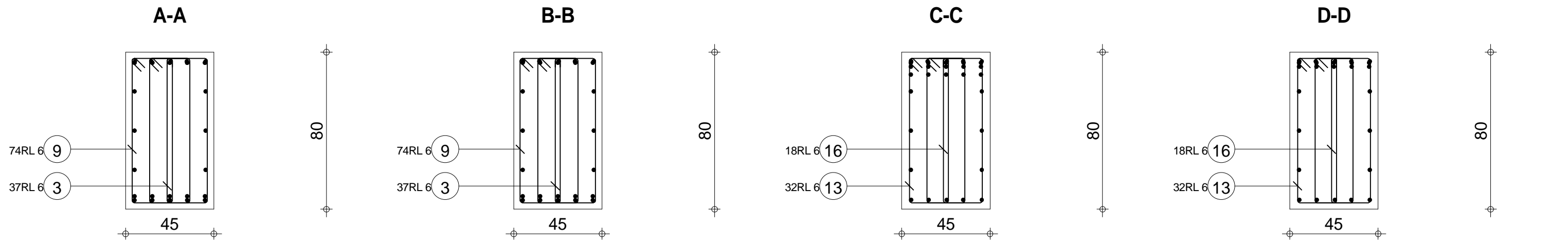


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 14	l=1.30	00	④	4HA 8	l=8.66	00
②	4HA 16	l=8.96	00	⑤	74RL 6	l=1.73	31
③	4HA 16	l=7.24	00	⑥	3*2HA 12	l=8.26	00


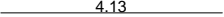
R+1 PROJET CERME_PLANS GUIDES		POUTRE 24 Section 30x70		Nombre 1		Béton : BETON25 = 1.83 m3		Acier HA 400 = 173 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 28.5 kg	
						Densité = 109.8 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 15 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.16cm/m		Echelle pour la section 5.71cm/m	
								Page 1/1	



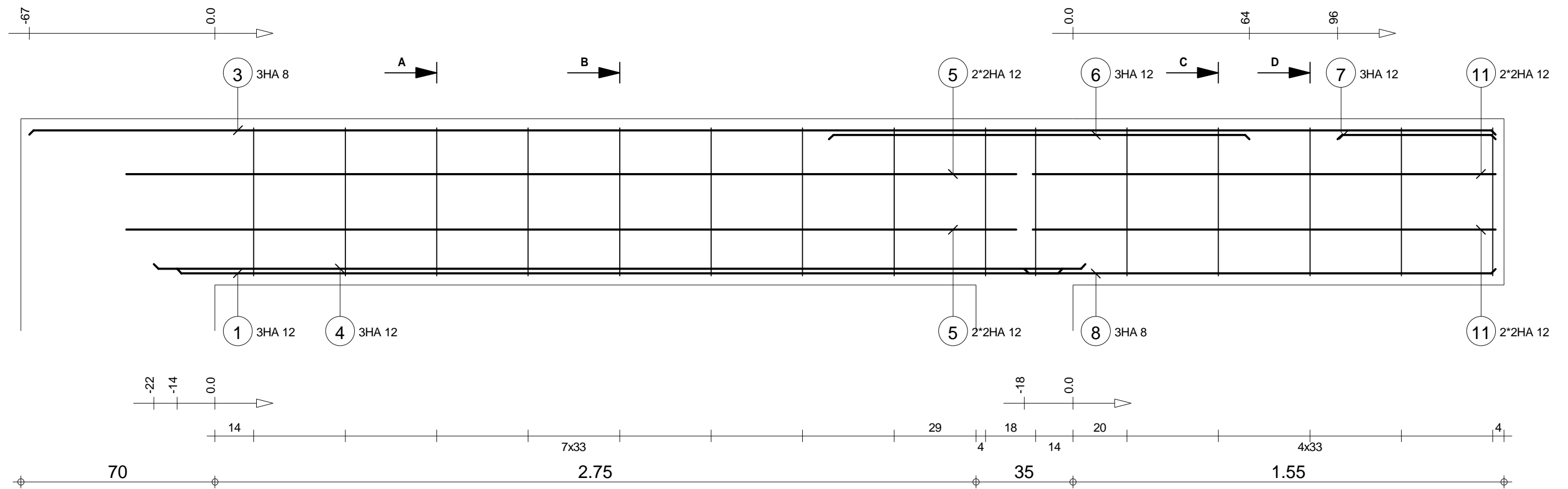
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	I=82	00	④	3HA 8	I=5.76	00
②	3HA 14	I=6.12	00	⑤	32RL 6	I=1.16	31
③	3HA 14	I=4.55	00	⑥	2*2HA 12	I=5.48	00



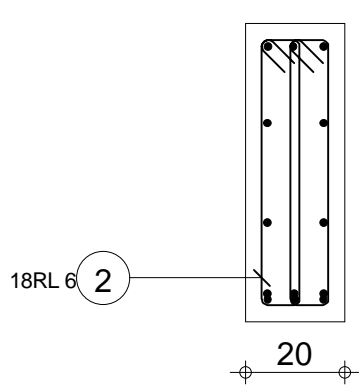
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme								
①	5HA 20	l=2.16	00	④	3*2HA 12	l=8.26	00	⑦	5HA 8	l=4.47	00	⑩	5HA 20	l=5.73	00	⑬	32RL 6	l=2.17	31								
②	5HA 20	l=11.24	00	⑤	5HA 20	l=8.72	00	⑧	5HA 8	l=8.47	00	⑪	5HA 20	l=2.28	00	⑭	3RL 6	l=2.20	31								
③	37RL 6	l=1.60		⑥	5HA 20	l=8.92	00	⑨	74RL 6	l=2.20	31	⑫	5HA 8	l=4.13	00	⑮	1RL 6	l=2.18	31								
Tél.								Fax																			
R+1 PROJET CERME_PLANS GUIDES				POUTRE 26 Section 45x80								Nombre 1				Béton : BETON25 = 4.58 m3				Acier HA 400 = 581 kg Acier RL 235 = 72.9 kg							
																Enrobage inférieur 3 cm				Enrobage supérieur 3 cm				Enrobage latéral 3 cm			
																Densité = 142.8 kg/ m3 Surface du coffrage = 26.4 m2				Echelle pour la vue 2.89cm/m Echelle pour la section 5.05cm/m				Page 1/2			

Pos.	Armature		Code	Forme
16	18RL 6	l=1.60		
17	3*2HA 12	l=4.13	00	

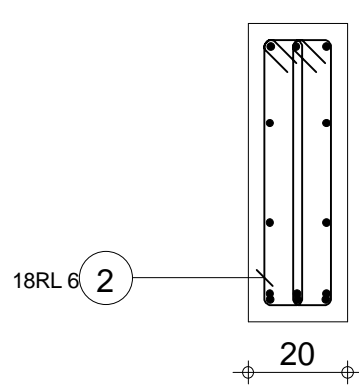
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme				
①	3HA 14	l=1.97	00	④	5*2HA 12	l=5.87	00	⑦	3HA 14	l=5.04	00	⑩	3HA 14	l=4.60	00	⑬	32RL 6	l=2.56	31				
②	3HA 14	l=5.70	00	⑤	3HA 14	l=5.09	00	⑧	3HA 8	l=6.02	00	⑪	3HA 14	l=4.59	00	⑭	5*2HA 12	l=5.55	00				
③	34RL 6	l=2.56	31	⑥	6HA 14	l=3.23	00	⑨	3HA 14	l=2.00	00	⑫	3HA 8	l=6.02	00								
Tél.												Fax											
R+1 PROJET CERME_PLANS GUIDES				POUTRE 27 Section 20x120								Béton : BETON25 = 2.84 m3				Acier HA 400 = 244 kg							
												Enrobage inférieur 3 cm				Enrobage supérieur 3 cm				Enrobage latéral 3 cm			
												Densité = 99.3 kg/ m3				Echelle pour la vue 3.1cm/m				Page 1/1			
												Surface du coffrage = 31 m2				Echelle pour la section 3.46cm/m							



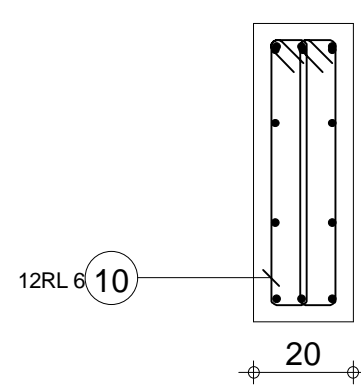
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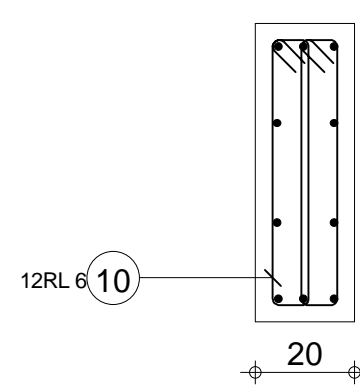
B-B



C-C

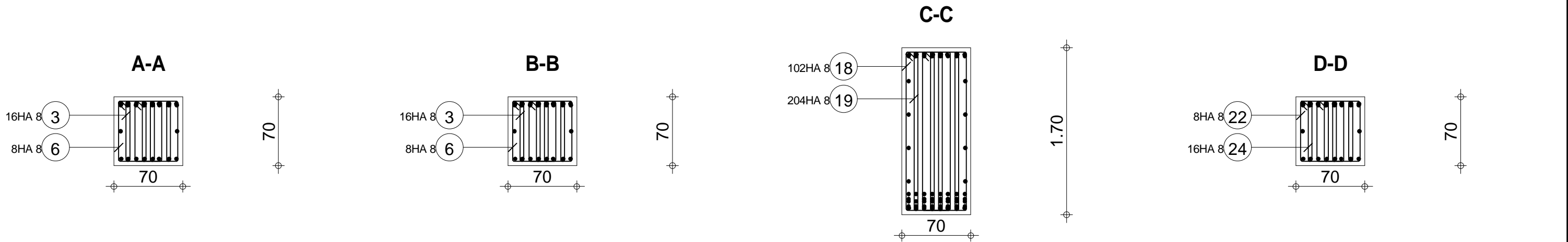


D-D



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	l=3.19	00	④	3HA 12	l=3.36	00	⑦	3HA 12	l=57	00	⑪	2*2HA 12	l=1.67	00
②	18RL 6	l=1.36	31	⑤	2*2HA 12	l=3.21	00	⑧	3HA 8	l=1.70	00				
③	3HA 8	l=5.29	00	⑥	3HA 12	l=1.52	00	⑩	12RL 6	l=1.35*	31				

		Tél.		Fax				Acier HA 400 = 48.6 kg	
R+1	PROJET CERME_PLANS GUIDES	POUTRE 29	Section 20x60	Nombre 1	Béton : BETON25 = 0.642 m3		Acier RL 235 = 9.03 kg		
					Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm
					Densité = 89.72 kg/ m3 Surface du coffrage = 7.52 m2		Echelle pour la vue 6.67cm/m Echelle pour la section 6.58cm/m		Page 1/1

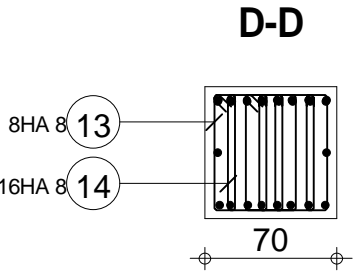
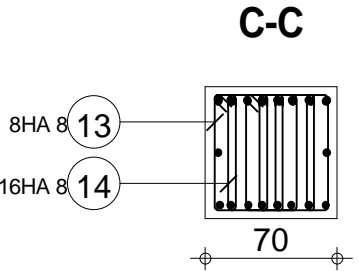
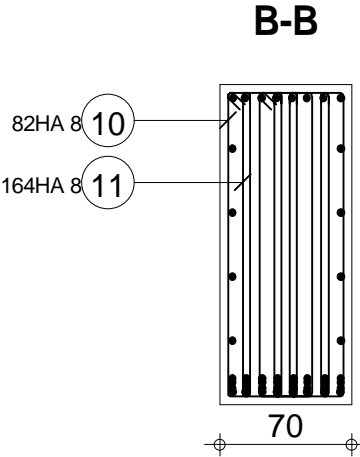
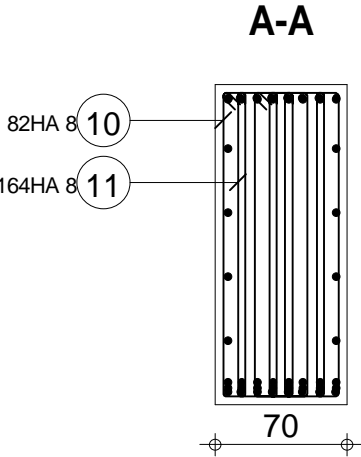
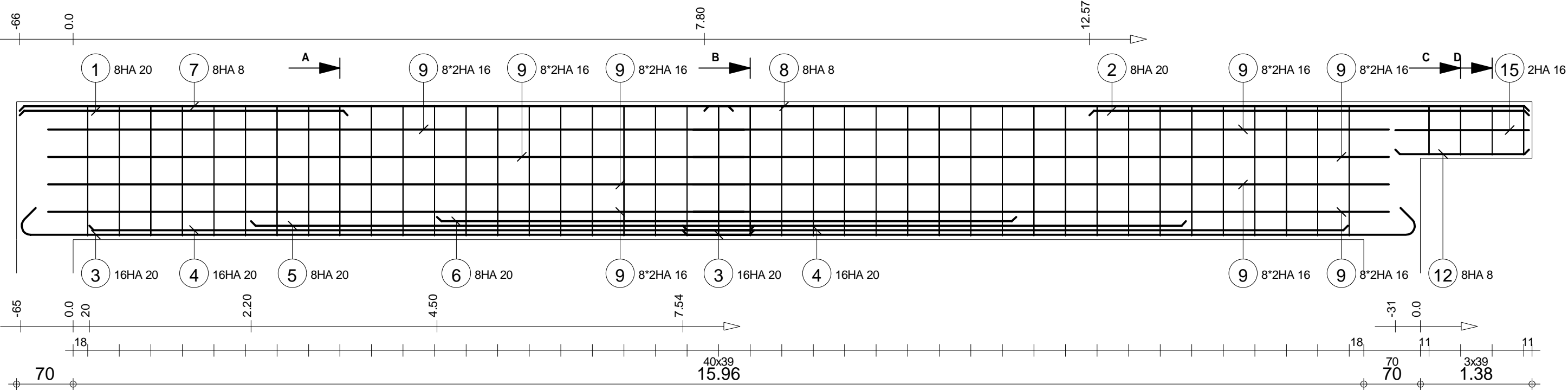


R+1

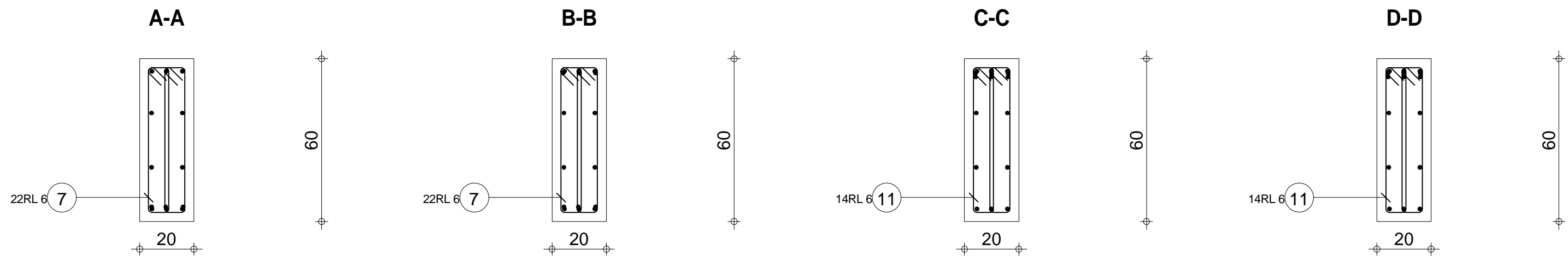
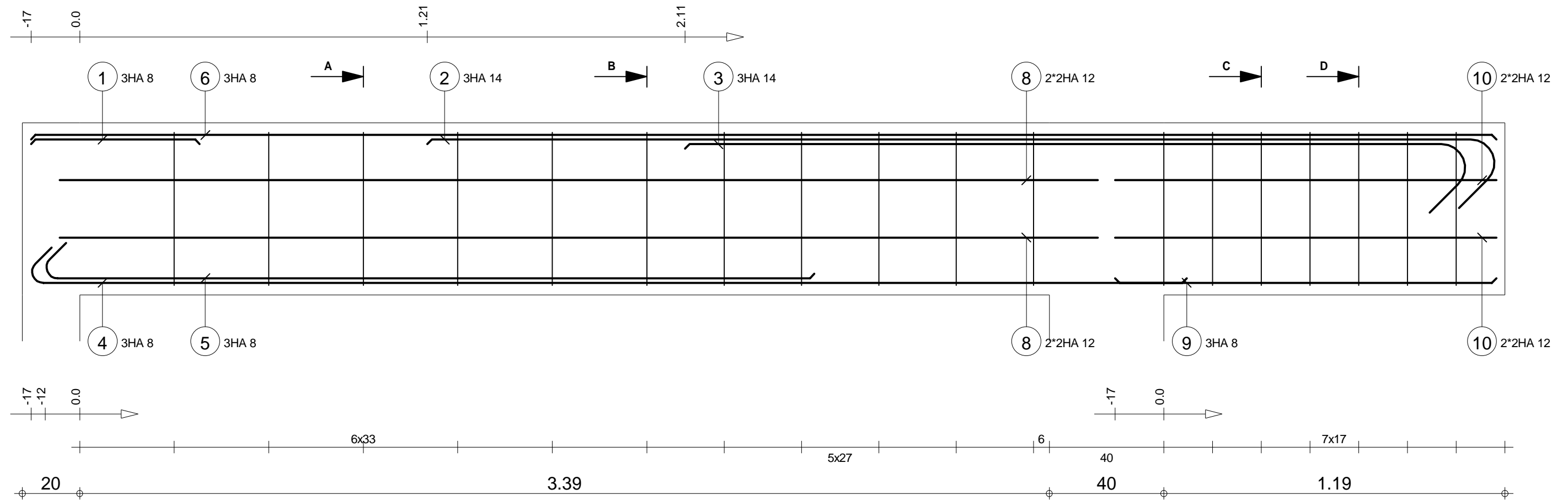
PROJET CERME PLANS GUIDES

Pos.	Armature		Code	Forme
16	8HA 25	l=9.38	00	<div><div>9.38</div></div>
17	16HA 16	l=10.64	00	<div><div>10.64</div></div>
18	102HA 8	l=4.30	31	<div><div>45</div><div>1.62</div><div>10</div></div>
19	204HA 8	l=3.41		<div><div>0.0</div><div>1.62</div><div>9</div></div>
20	8*2HA 16	l=9.16	00	<div><div>9.16</div></div>
21	8HA 20	l=2.92	00	<div><div>2.92</div></div>
22	8HA 8	l=2.29	31	<div><div>45</div><div>1.62</div><div>10</div></div>
23	10HA 16	l=1.65	00	<div><div>1.65</div></div>
24	16HA 8	l=1.41		<div><div>0.0</div><div>1.62</div><div>9</div></div>
25	8HA 16	l=1.00	00	<div><div>1.00</div></div>

Pos.	Armature		Code	Forme
16	107HA 8	l=4.30*	31	
17	67HA 8	l=4.31	31	
19	324HA 8	l=3.41	21	
20	8HA 25	l=3.31	00	
21	8HA 25	l=3.28	00	
22	8HA 8	l=1.65	00	
23	5HA 8	l=2.26	31	
24	3HA 8	l=2.28	31	
25	16HA 8	l=1.41		
26	2HA 16	l=1.65	00	



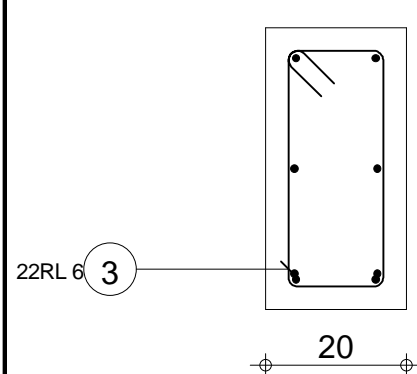
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
1	8HA 20	l=4.05	00	4	16HA 20	l=8.22	00	7	8HA 8	l=8.81	00	10	82HA 8	l=4.30	31	13	8HA 8	l=2.28	31
2	8HA 20	l=5.43	00	5	8HA 20	l=11.56	00	8	8HA 8	l=10.20	00	11	164HA 8	l=3.41		14	16HA 8	l=1.41	
3	16HA 20	l=9.40	00	6	8HA 20	l=7.16	00	9	8*2HA 16	l=8.60	00	12	8HA 8	l=1.65	00	15	2HA 16	l=1.65	00
Tél.								Fax				Nombre 1							
R+1								POUTRE 32								Acier HA 500 = 1540 kg			
																Acier HA 400 = 376 kg			
																Enrobage inférieur 4 cm			
PROJET CERME_PLANS GUIDES								Section 70x170								Enrobage supérieur 4 cm			
																Enrobage latéral 4 cm			
																Densité = 90.14 kg/ m3			
																Surface du coffrage = 74.8 m2			
																Echelle pour la vue 1.98cm/m			
																Echelle pour la section 2.5cm/m			
																Page 1/1			



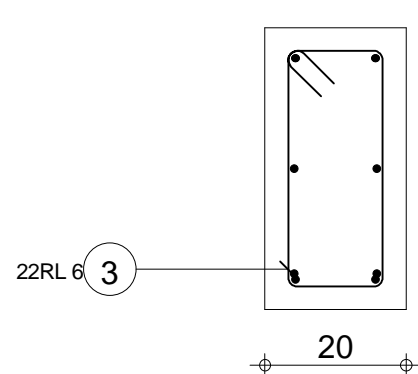
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme				
①	3HA 8	l=59	00	59	④	3HA 8	l=4.16	00	4.03	⑦	22RL 6	l=1.36	31	8/8	54				
②	3HA 14	l=3.98	00	3.73	⑤	3HA 8	l=2.81	00	2.68	⑧	2*2HA 12	l=3.63	00	3.62	⑪	14RL 6	l=1.36	31	8/8
③	3HA 14	l=2.97	00	2.73	⑥	3HA 8	l=5.12	00	5.12	⑨	3HA 8	l=1.33	00	1.33					

		Tél.		Fax				Acier HA 400 = 59.4 kg	
R+1 PROJET CERME_PLANS GUIDES	POUTRE 33 Section 20x60	Nombre 1	Béton : BETON25 = 0.621 m3		Acier RL 235 = 10.8 kg				
			Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm		
			Densité = 113 kg/ m3		Echelle pour la vue 6.88cm/m		Page 1/1		
			Surface du coffrage = 7.37 m2		Echelle pour la section 6.58cm/m				

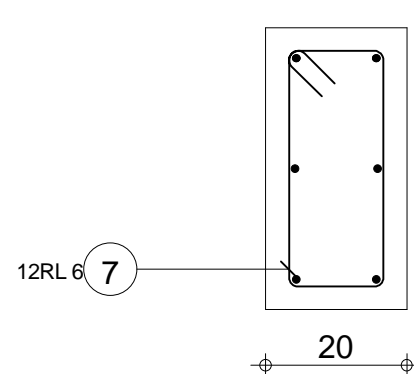
A-A



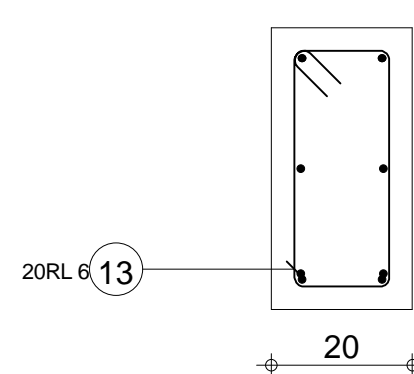
B-B






C-C



D-D



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	2HA 8 l=4.20	00	4.20	④	2HA 8 l=2.27	00	2.27	⑦	12RL 6 l=1.08	31		⑩	2HA 8 l=3.88	00	3.88	⑬	20RL 6 l=1.08	31	
②	2HA 8 l=4.28	00	4.28	⑤	2HA 8 l=3.37	00	3.37	⑧	2HA 8 l=2.19	00	2.19	⑪	2HA 8 l=2.11	00	2.11	⑭	2HA 8 l=3.96	00	3.96
③	22RL 6 l=1.08	31		⑥	2HA 10 l=3.86	00	3.86	⑨	2HA 10 l=2.19	00	2.19	⑫	2HA 8 l=3.21	00	3.21	⑮	2HA 10 l=3.54	00	3.54

Tél.

Fax

Nombre 1

Béton : BETON25 = 0.814 m3

Acier HA 400 = 35.1 kg
Acier RL 235 = 12.9 kg

Enrobage inférieur 3 cm

Enrobage supérieur 3 cm

Enrobage latéral 3 cm

Densité = 58.97 kg/ m3
Surface du coffrage = 10 m2

Echelle pour la vue 3.58cm/m
Echelle pour la section 9.34cm/m

Page 1/1

R+1

PROJET CERME_PLANS GUIDES

POUTRE 35

Section 20x40