

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		④	3HA 14 l=4.21	00		⑦	3HA 14 l=1.33	00		⑩	3HA 8 l=3.89	00		⑬	3HA 14 l=1.64	00	
②	3HA 14 l=3.65	00		⑤	3HA 14 l=4.24	00		⑧	3HA 14 l=5.19	00		⑪	3HA 8 l=5.49	00		⑭	3HA 8 l=1.67	00	
③	60RL 6 l=1.56	31		⑥	3HA 14 l=6.20	00		⑨	3HA 14 l=3.39	00		⑫	6*2HA 12 l=3.79	00		⑮	3*2HA 12 l=1.67	00	

R+2

PROJET CERME_PLANS GUIDES

POUTRE 1

Section 20x70

Tél.

Fax

Nombre 1

Béton : BETON25 = 1.28 m3

Enrobage inférieur 3 cm

Densité = 157 kg/ m3

Surface du coffrage = 14.8 m2

Acier HA 400 = 177 kg

Acier RL 235 = 24.2 kg



Enrobage supérieur 3 cm

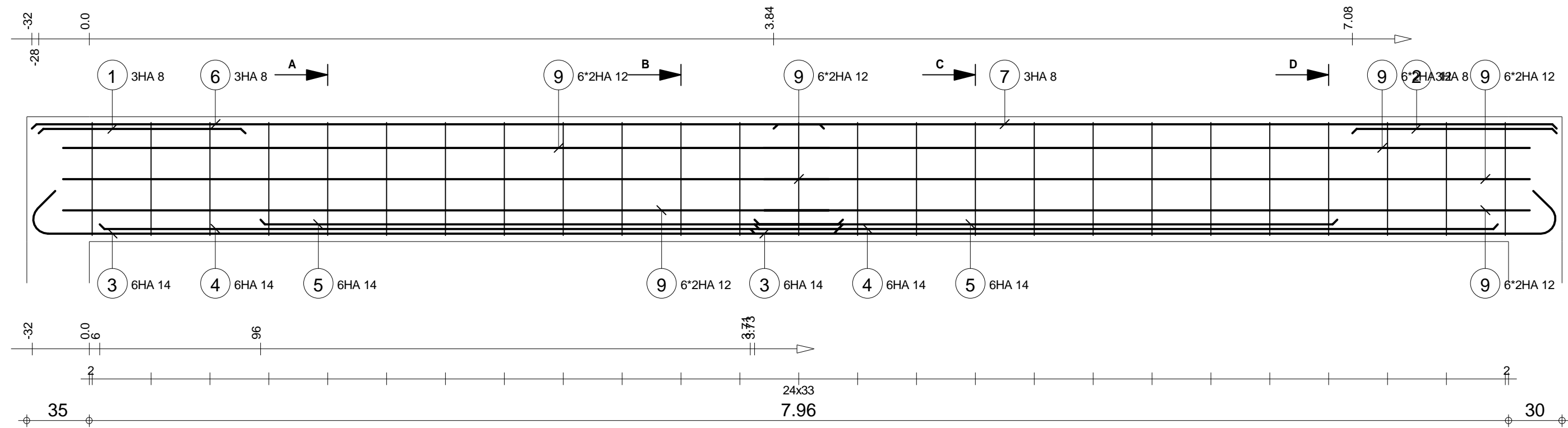
Echelle pour la vue 3.97cm/m

Echelle pour la section 5.71cm/m

Enrobage latéral 3 cm

Page 1/2

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

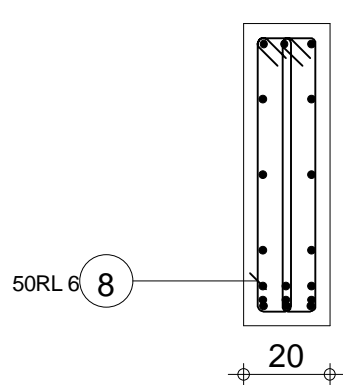
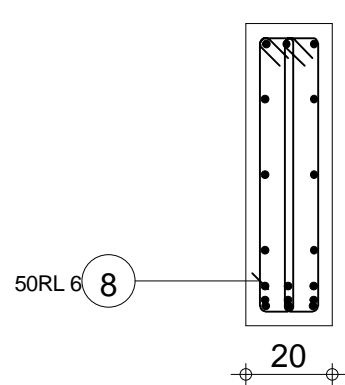
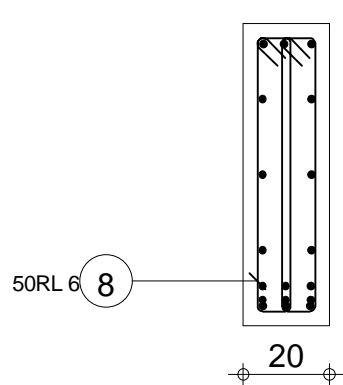
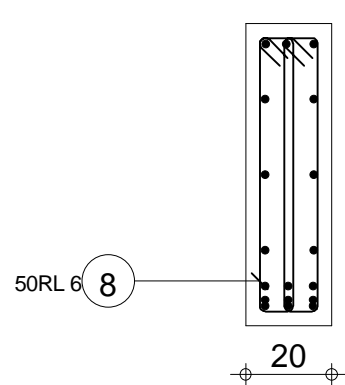


A-A

B-B

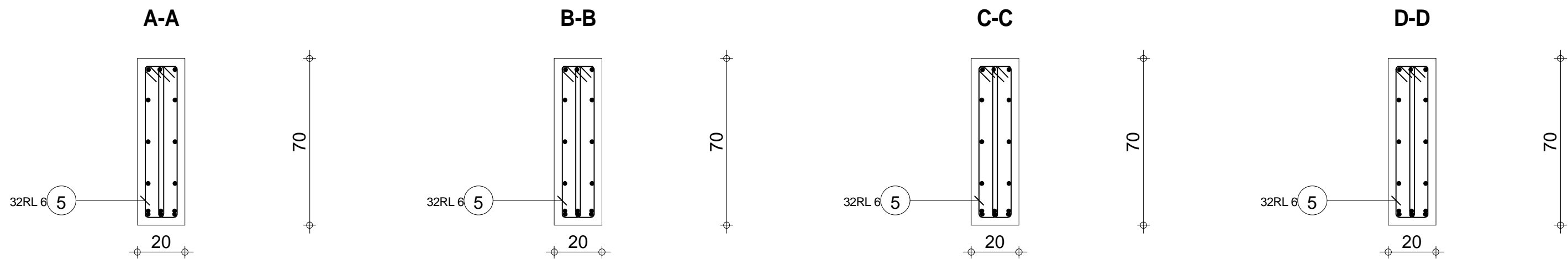
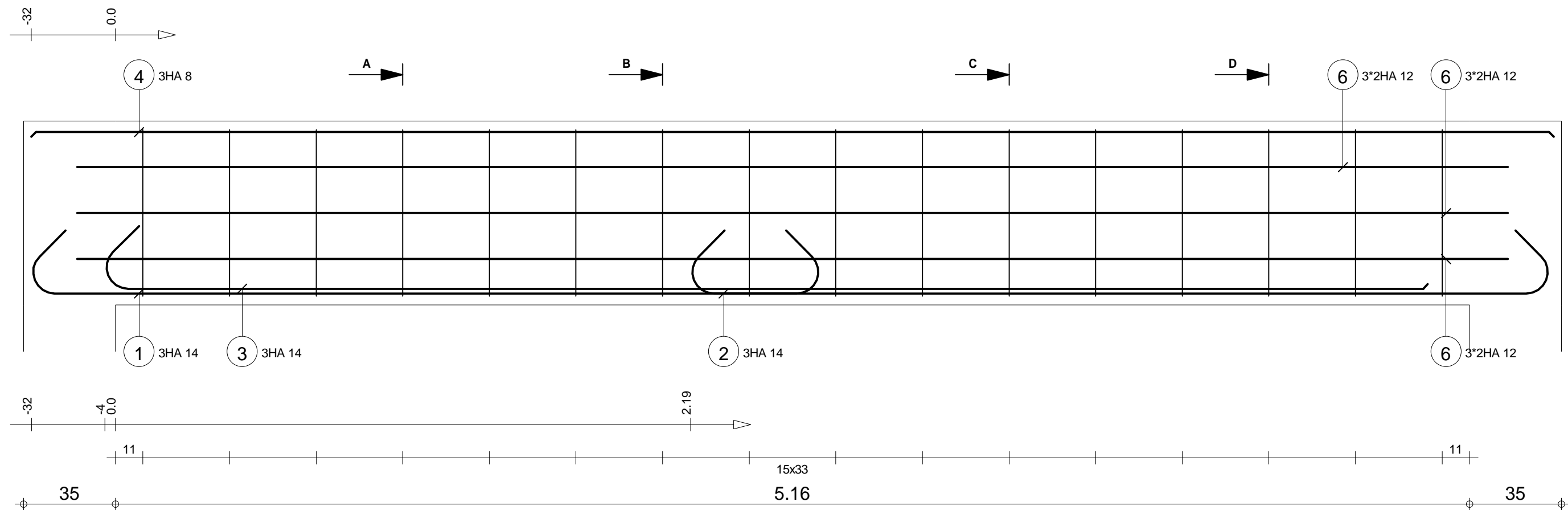
C-C

D-D



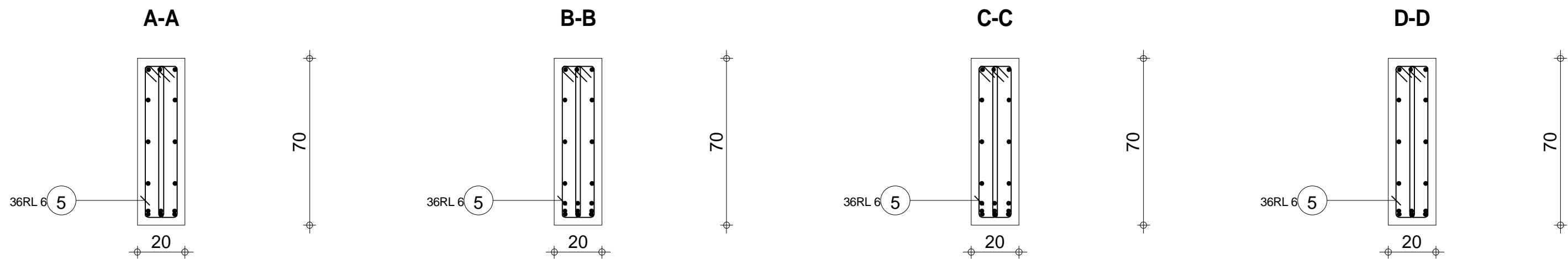
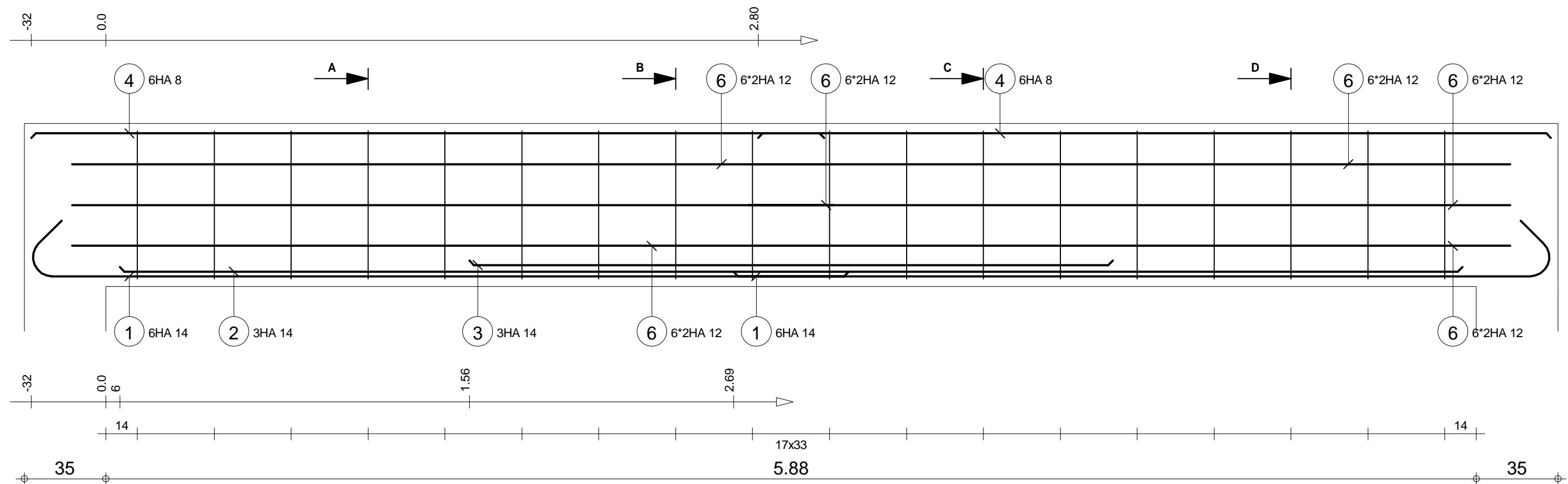
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1	3HA 8	l=1.16	00	4	6HA 14	l=4.16	00	7	3HA 8	l=4.39	00
2	3HA 8	l=1.15	00	5	6HA 14	l=3.26	00	8	50RL 6	l=1.56	31
3	6HA 14	l=4.76	00	6	3HA 8	l=4.44	00	9	6*2HA 12	l=4.29	00

R+2 PROJET CERME_PLANS GUIDES		POUTRE 2 Section 20x70		Nombre 1		Béton : BETON25 = 1.2 m3		Acier HA 400 = 147 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 17.3 kg	
						Densité = 137.5 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 13.9 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.22cm/m		Echelle pour la section 5.71cm/m	
								Page 1/1	



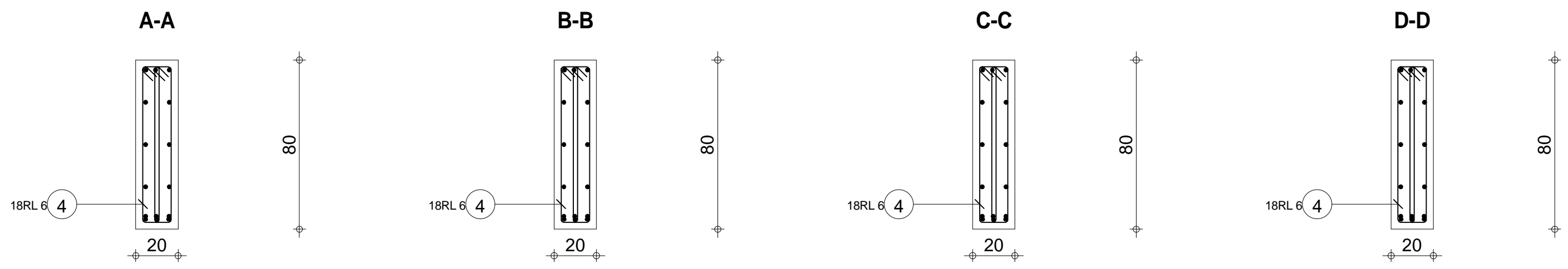
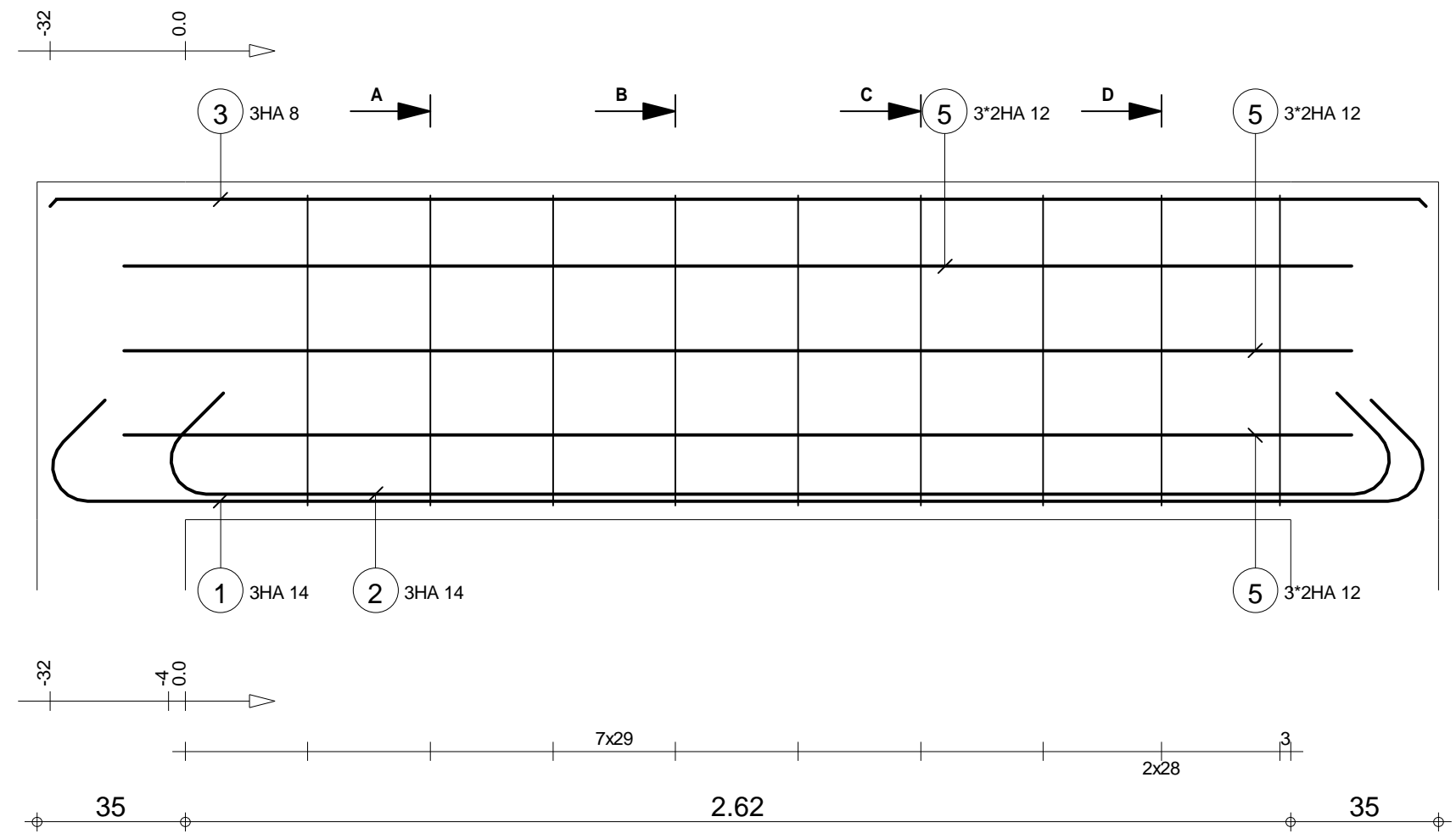
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 14	l=3.49	00	④	3HA 8	l=5.80	00
②	3HA 14	l=3.76	00	⑤	32RL 6	l=1.56	31
③	3HA 14	l=5.28	00	⑥	3*2HA 12	l=5.45	00

R+2 PROJET CERME_PLANS GUIDES		POUTRE 4 Section 20x70		Nombre 1		Béton : BETON25 = 0.82 m3		Acier HA 400 = 81.4 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 11.1 kg	
						Densité = 112.7 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 9.52 m2		Enrobage latéral 3 cm	
						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
①	6HA 14	l=3.75	00	④	6HA 8	l=3.40	00
②	3HA 14	l=5.76	00	⑤	36RL 6	l=1.56	31
③	3HA 14	l=2.76	00	⑥	6*2HA 12	l=3.27	00

<div>R+2</div> <div>PROJET CERME_PLANS GUIDES</div>		Tél.		Fax		<div>Nombre 1</div>	
		Béton : BETON25 = 0.921 m3		Acier HA 400 = 101 kg Acier RL 235 = 12.5 kg			
		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm Enrobage latéral 3 cm			
		Densité = 122.7 kg/ m3 Surface du coffrage = 10.7 m2		Echelle pour la vue 5.46cm/m Echelle pour la section 5.71cm/m			



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 14	l=3.74	00	④	18RL 6	l=1.76	31
②	3HA 14	l=3.38	00	⑤	3*2HA 12	l=2.91	00
③	3HA 8	l=3.25	00				

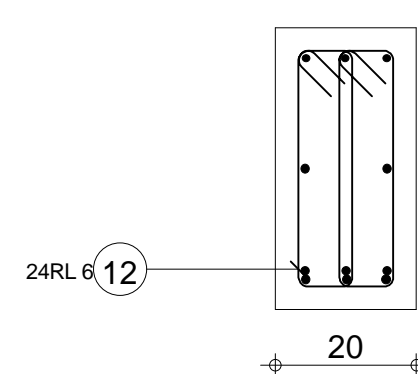
R+2 PROJET CERME_PLANS GUIDES		POUTRE 6 Section 20x80		Tél.		Fax		Nombre 1	
				Béton : BETON25 = 0.53 m3		Acier HA 400 = 45.2 kg			
				Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
				Densité = 98.49 kg/ m3		Echelle pour la vue 6.6cm/m		Page 1/1	
				Surface du coffrage = 6.15 m2		Echelle pour la section 5.05cm/m			

A-A

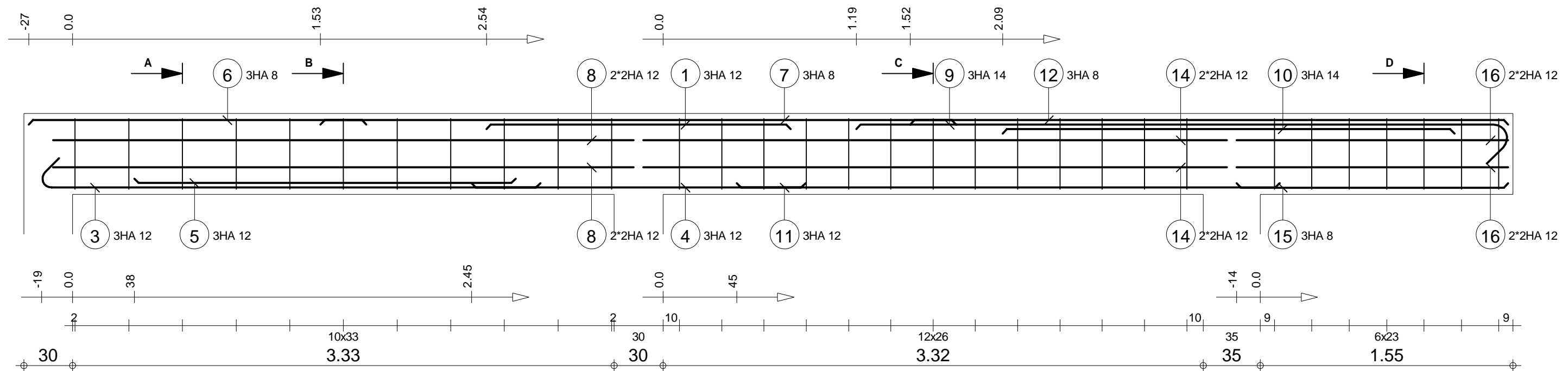
B-B

C-C

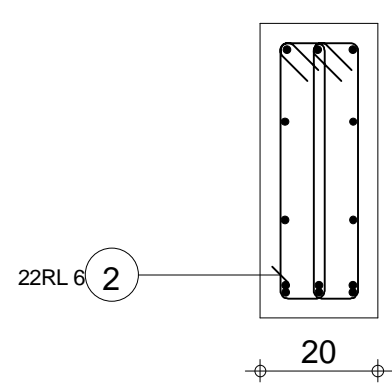
D-D



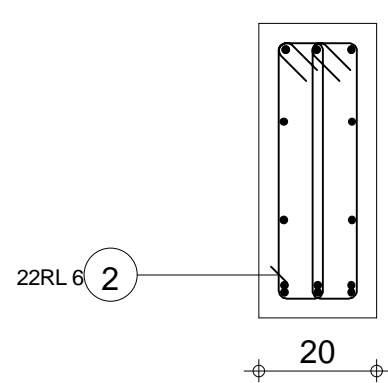
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme						
①	3HA 8	l=2.00	00	④	3HA 12	l=2.40	00	⑦	3HA 8	l=2.09	00	⑩	6HA 12	l=2.03	00	⑬	2HA 12	l=3.70	00						
②	28RL 6	l=96	31	⑤	2HA 12	l=3.54	00	⑧	3HA 12	l=3.41	00	⑪	3HA 12	l=2.67	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+2 PROJET CERME_PLANS GUIDES				POUTRE 8 Section 20x40								Nombre 1		Béton : BETON25 = 0.605 m3				Acier HA 400 = 73.9 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							



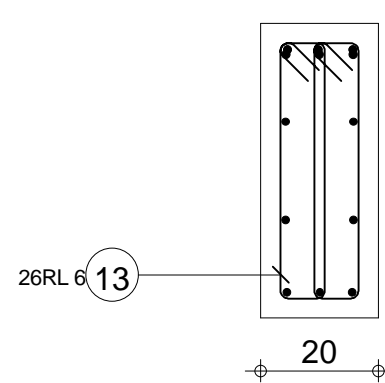
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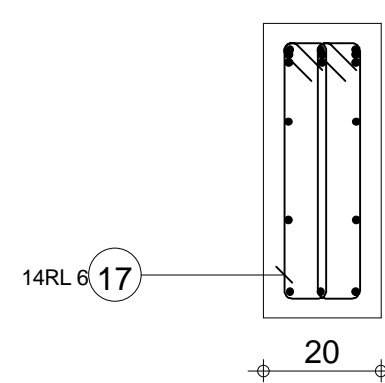
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





C-C



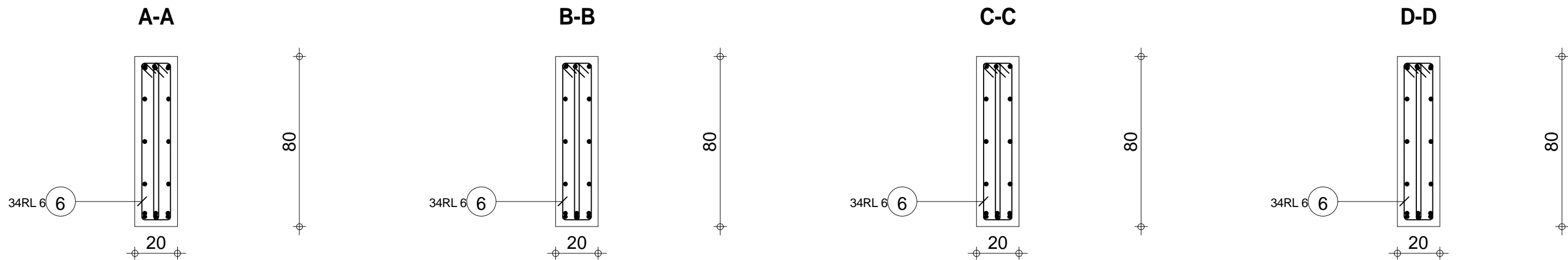
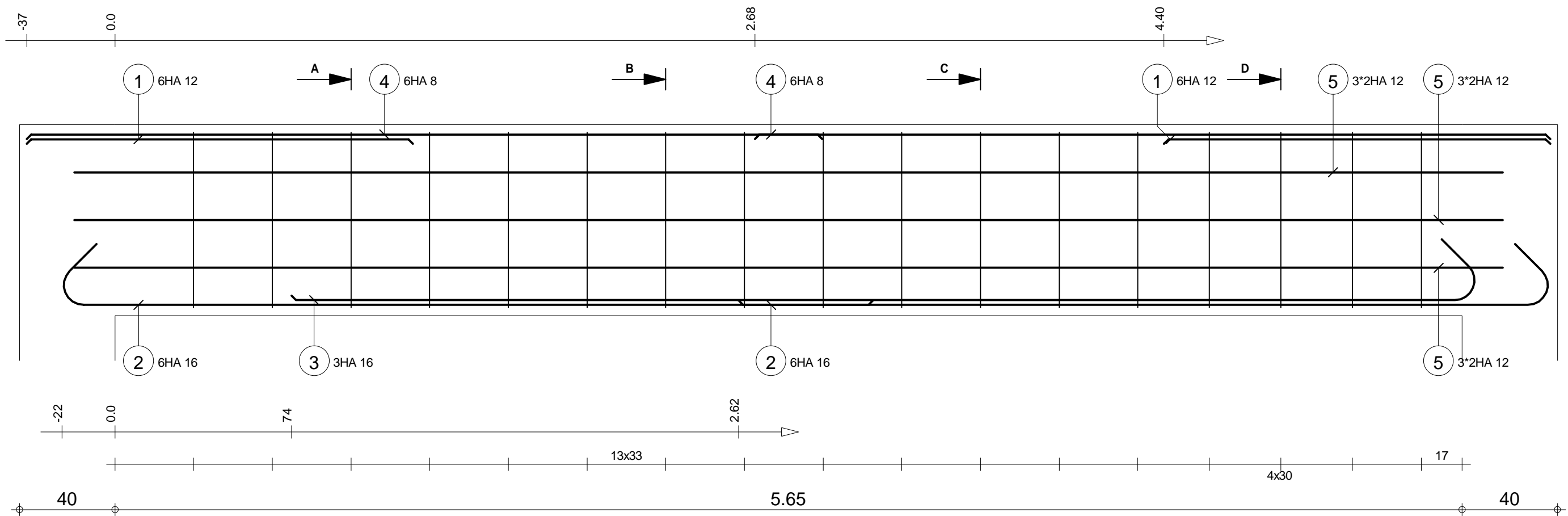
D-D



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	1.87	④	3HA 12	l=2.05	00	2.05	⑦	3HA 8	l=3.91	00	3.91	⑩	3HA 14	l=2.78	00	2.78	⑬	26RL 6	l=1.16	31			
②	22RL 6	l=1.16	31		⑤	3HA 12	l=2.35	00	2.35	⑧	2*2HA 12	l=3.57	00	3.57	⑪	3HA 12	l=3.34	00	3.34	⑭	2*2HA 12	l=3.59	00	3.59		
③	3HA 12	l=3.26	00		⑥	3HA 8	l=2.08	00	2.08	⑨	3HA 14	l=4.25	00	4.01		⑫	3HA 8	l=3.68	00	3.68	⑮	3HA 8	l=1.67	00	1.67	
Tél.												Fax														
R+2 PROJET CERME_PLANS GUIDES					POUTRE 9 Section 20x50 Nombre 1										Béton : BETON25 = 0.916 m3				Acier HA 400 = 105 kg Acier RL 235 = 15.9 kg							
															Enrobage inférieur 3 cm				Enrobage supérieur 3 cm				Enrobage latéral 3 cm			
															Densité = 131 kg/ m3				Echelle pour la vue 3.97cm/m				Page 1/2			
															Surface du coffrage = 11 m2				Echelle pour la section 7.8cm/m							

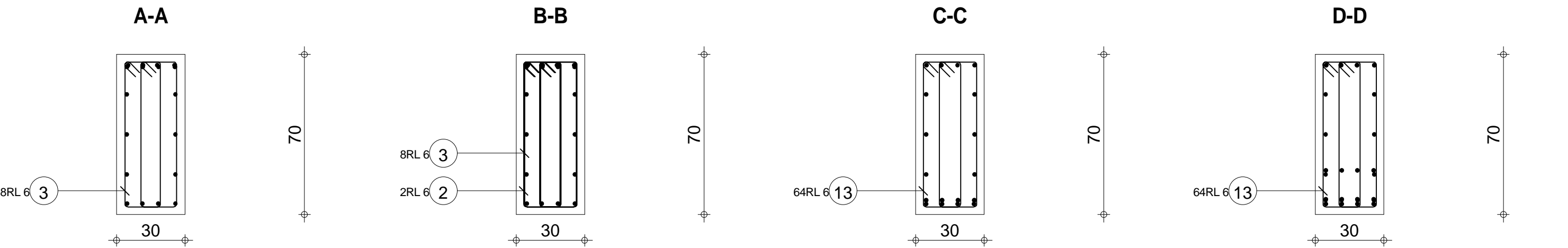
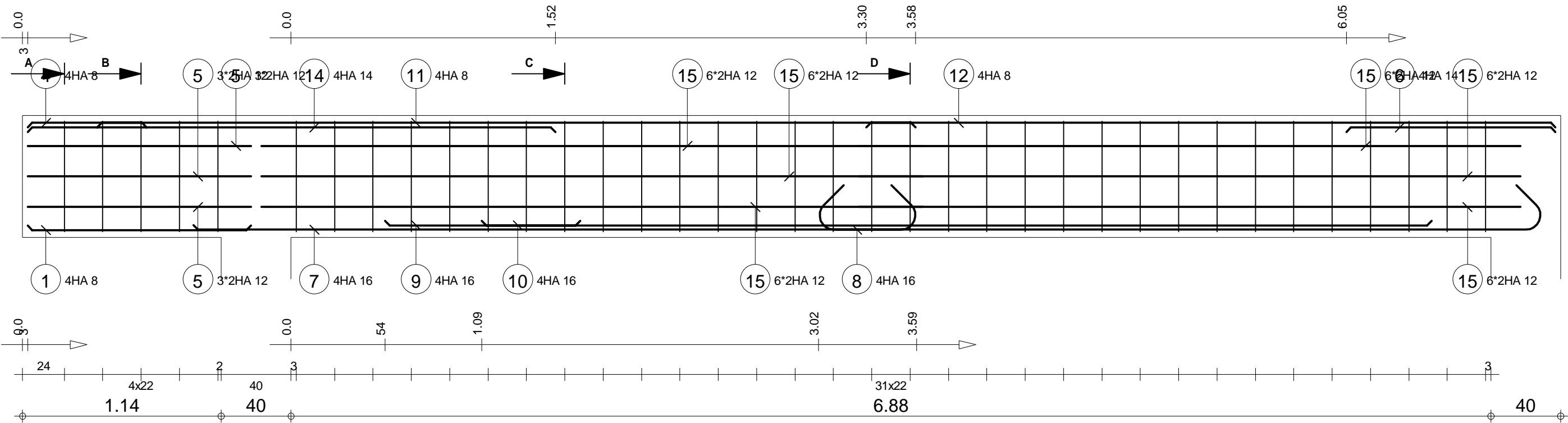
Pos.	Armature	Code	Forme
16	2*2HA 12 l=1.67	00	<div>1.67</div>
17	14RL 6 l=1.15*	31	<div><div>8</div><div>8</div><div>14</div></div>

		Tél.	Fax			
R+2 PROJET CERME_PLANS GUIDES	POUTRE 9 Section 20x50	Nombre 1	Béton : BETON25 = 0.916 m3	Acier HA 400 = 105 kg Acier RL 235 = 15.9 kg		
			Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	Enrobage latéral 3 cm
			Densité = 131 kg/ m3 Surface du coffrage = 11 m2			Page 2/2

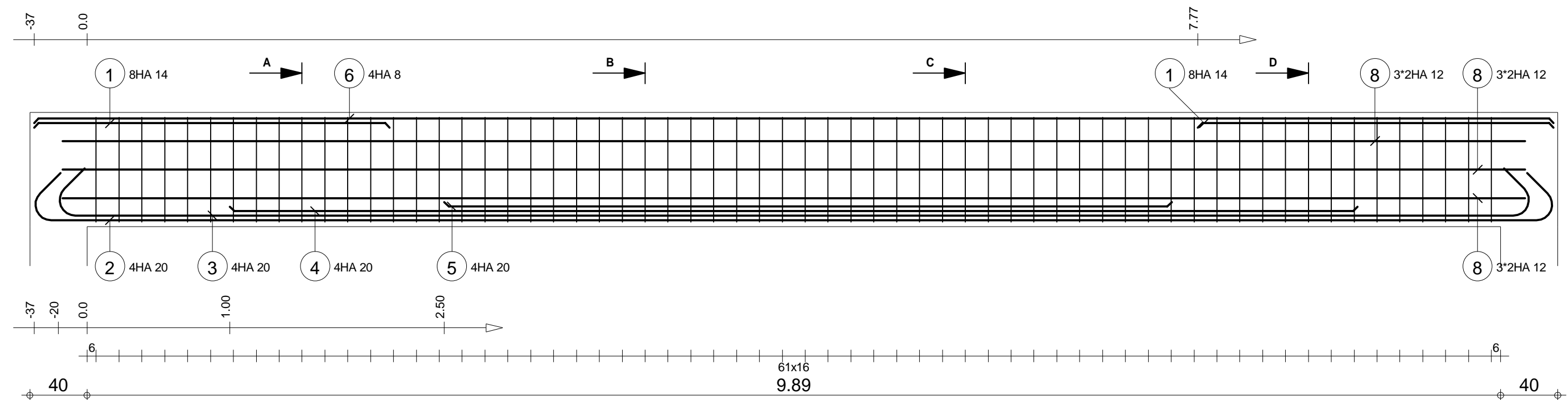


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 12	l=1.62	00	④	6HA 8	l=3.34	00
②	6HA 16	l=3.67	00	⑤	3*2HA 12	l=5.99	00
③	3HA 16	l=5.24	00	⑥	34RL 6	l=1.76	31

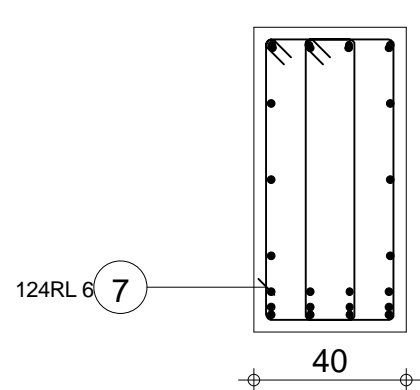
R+2		POUTRE 10		Nombre 1		Béton : BETON25 = 1.03 m3		Acier HA 400 = 108 kg	
PROJET CERME_PLANS GUIDES		Section 20x80				Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 117.5 kg/ m3		Echelle pour la vue 5.57cm/m	
						Surface du coffrage = 11.8 m2		Echelle pour la section 5.05cm/m	
								Page 1/1	



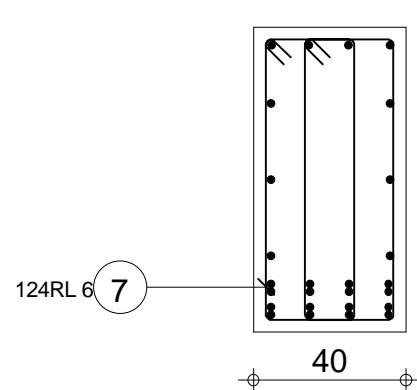
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②	2RL 6	l=1.73	31	⑤	3*2HA 12	l=1.28	00	⑧	4HA 16	l=4.68	00	⑪	4HA 8	l=4.69	00	⑭	4HA 14	l=3.03	00
③	8RL 6	l=1.72	31	⑥	4HA 14	l=1.20	00	⑨	4HA 16	l=1.12	00	⑫	4HA 8	l=3.95	00	⑮	6*2HA 12	l=3.79	00
Tél.								Fax				Nombre 1							
R+2				POUTRE 12				Section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



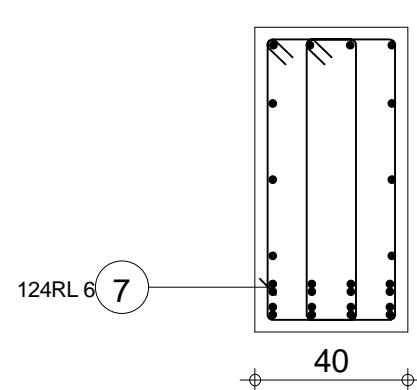
A-A



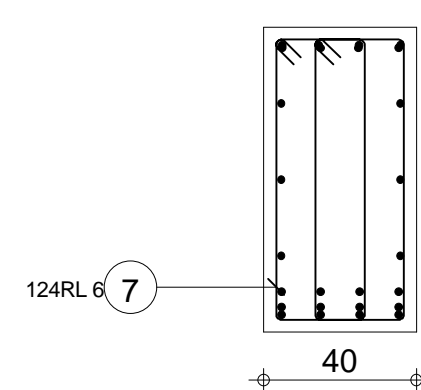
B-B



C-C



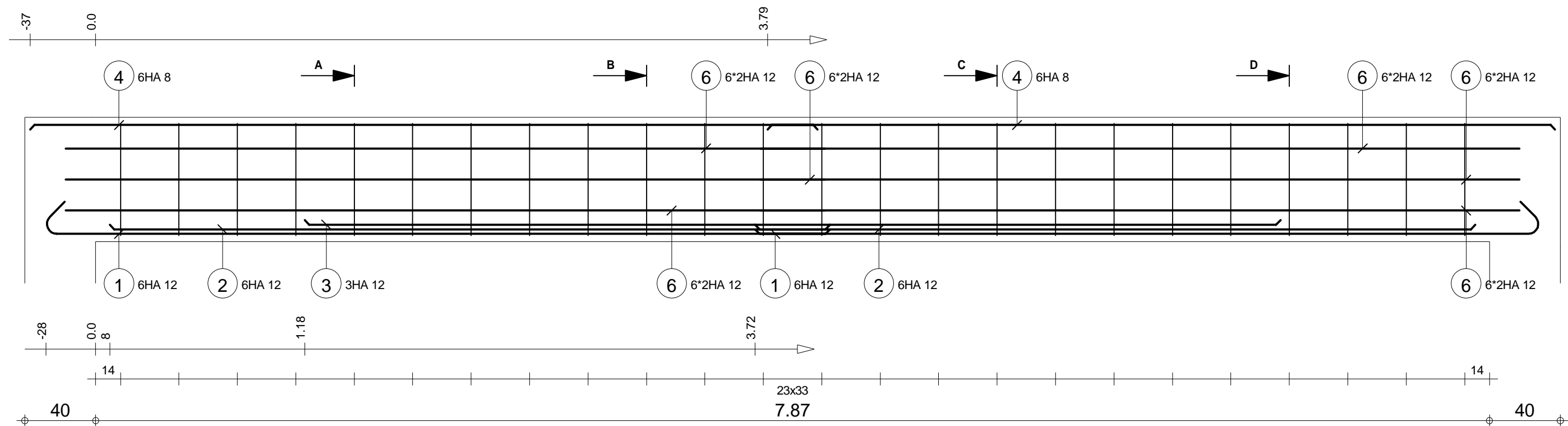
D-D



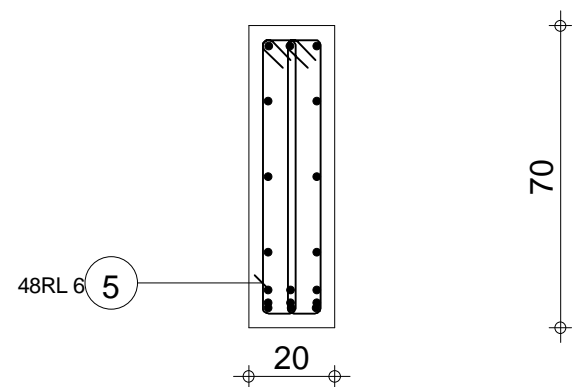
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 14	l=2.49	00	④	4HA 20	l=7.89	00	⑦	124RL 6	l=2.07	31
②	4HA 20	l=11.31	00	⑤	4HA 20	l=5.09	00	⑧	3*2HA 12	l=10.23	00
③	4HA 20	l=10.97	00	⑥	4HA 8	l=10.63	00				

R+2 PROJET CERME_PLANS GUIDES		POUTRE 13 Section 40x80		Nombre 1		Béton : BETON25 = 3.42 m3		Acier HA 400 = 443 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 56.9 kg	
						Densité = 146.2 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 21.7 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 3.42cm/m		Echelle pour la section 5.05cm/m	
								Page 1/1	

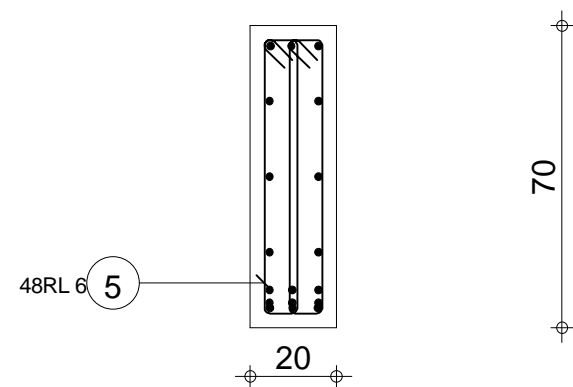
Pos.	Armature	Code	Forme
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17	36HA 6 l=1.16	31	<div><div>8</div><div>4</div><div>8</div></div>
18	4*2HA 12 l=3.75	00	<div>3.75</div>
19	4HA 6 l=1.16	31	<div><div>8</div><div>4</div><div>8</div></div>
20	3HA 10 l=49	00	<div>49</div>



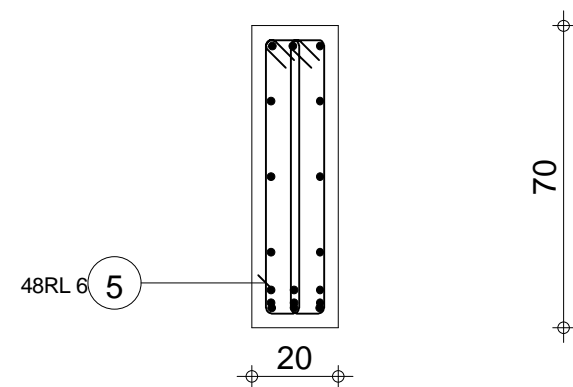
A-A



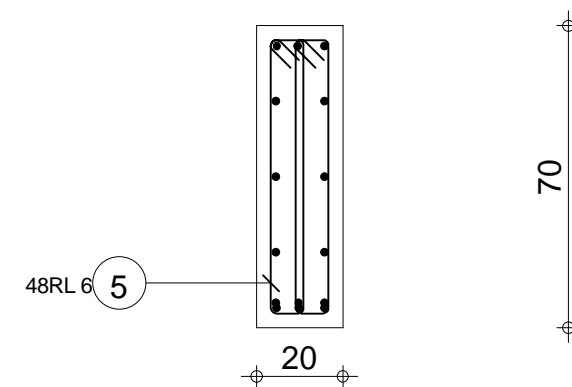
B-B



C-C

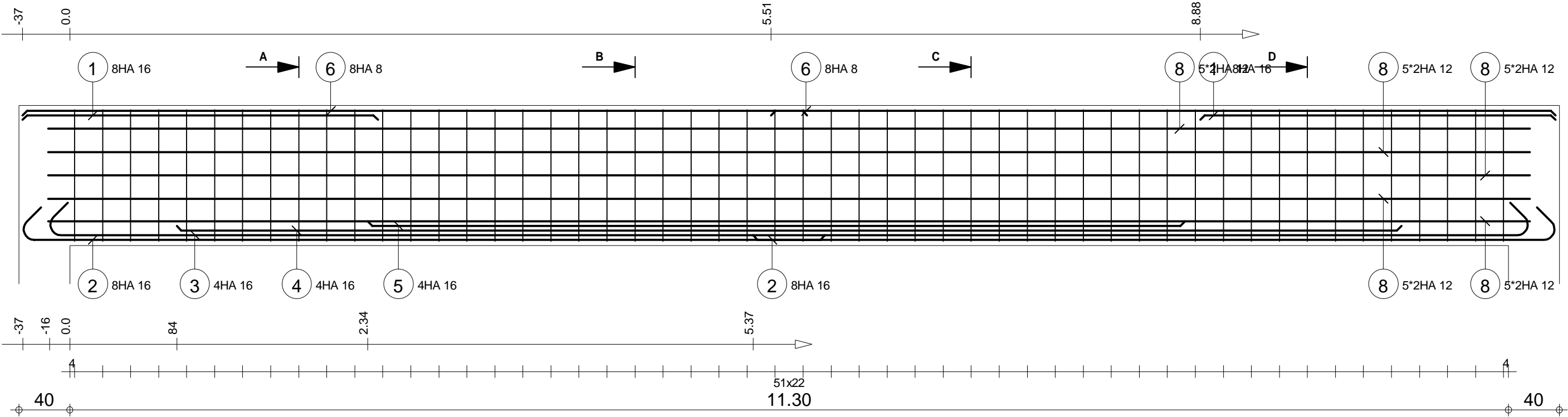


D-D

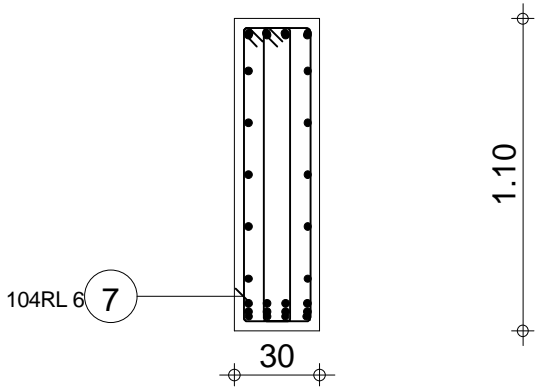


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 12	l=4.62	00	④	6HA 8	l=4.45	00
②	6HA 12	l=4.07	00	⑤	48RL 6	l=1.56	31
③	3HA 12	l=5.51	00	⑥	6*2HA 12	l=4.29	00

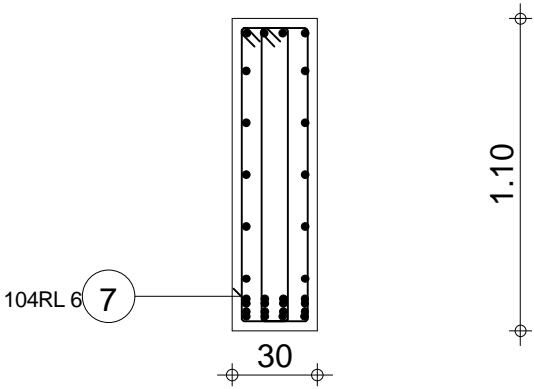
R+2 PROJET CERME_PLANS GUIDES		POUTRE 15 Section 20x70		Nombre 1		Béton : BETON25 = 1.21 m3		Acier HA 400 = 117 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 16.6 kg	
						Densité = 110.7 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 14 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.18cm/m		Echelle pour la section 5.71cm/m	
								Page 1/1	



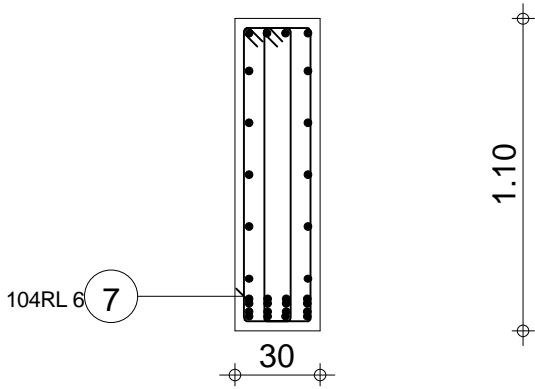
A-A



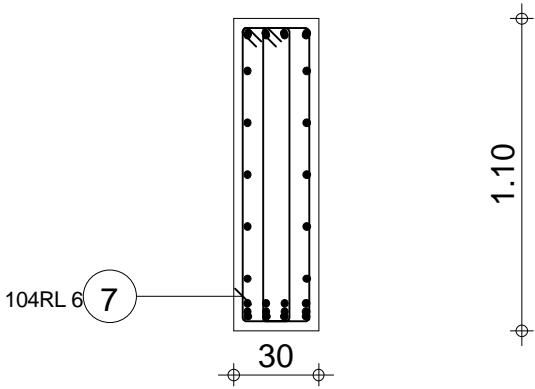
B-B



C-C

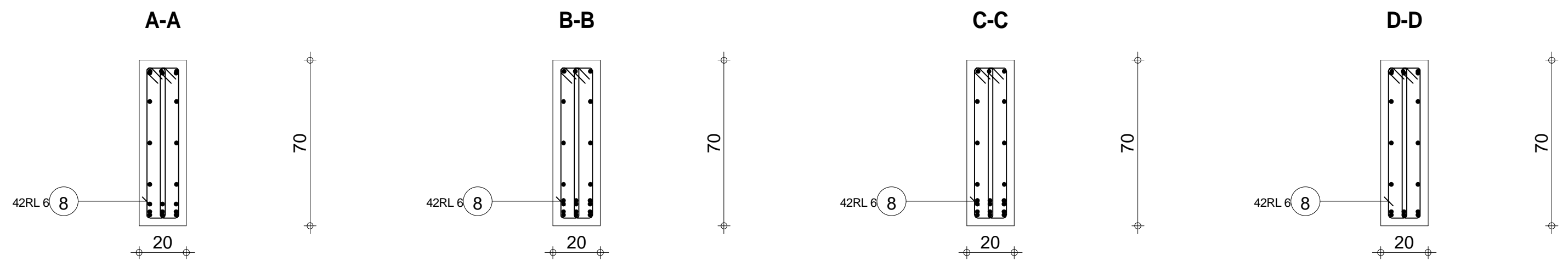
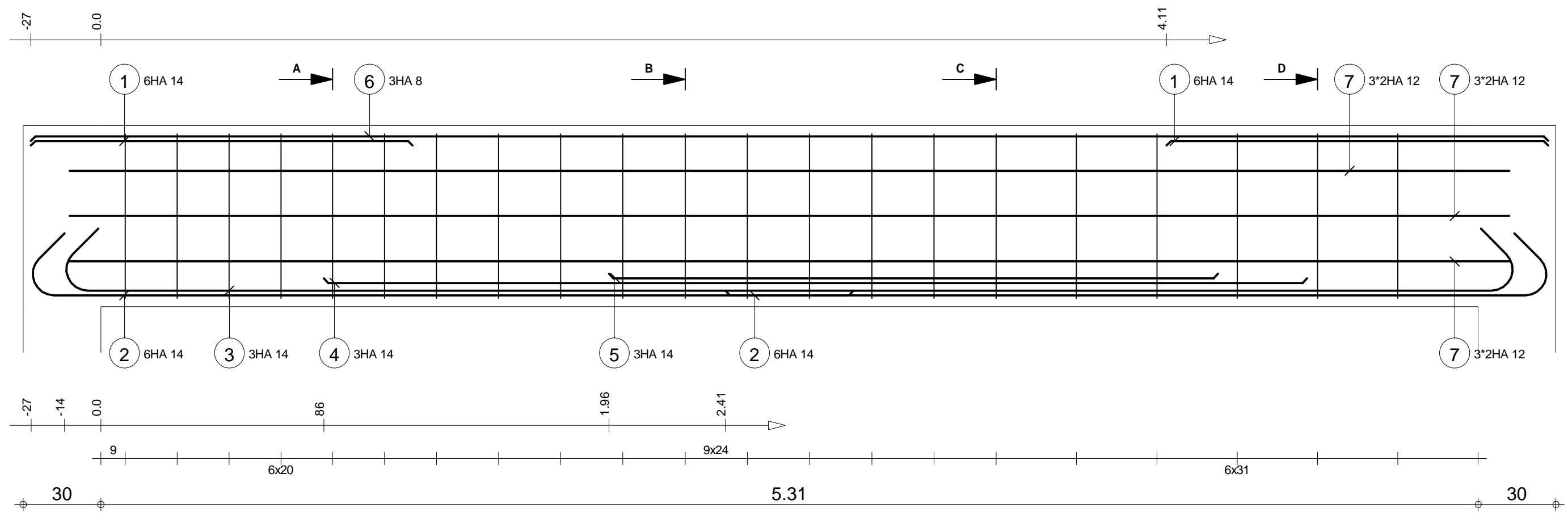



D-D



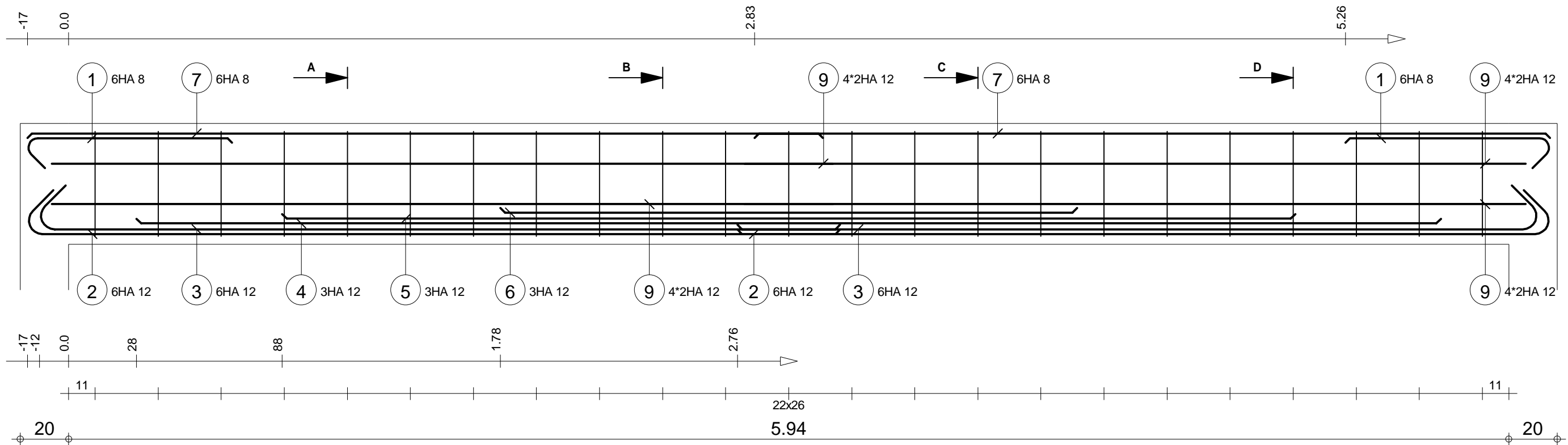
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 16	l=2.79	00	④	4HA 16	l=9.62	00	⑦	104RL 6	l=2.53	31
②	8HA 16	l=6.57	00	⑤	4HA 16	l=6.42	00	⑧	5*2HA 12	l=11.64	00
③	4HA 16	l=12.15	00	⑥	8HA 8	l=6.16	00				

R+2 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		Acier RL 235 = 58.5 kg	
						Densité = 119.5 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 30.7 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 3.03cm/m		Echelle pour la section 3.76cm/m	
								Page 1/1	

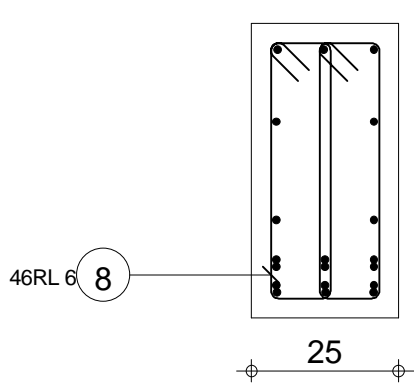


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme			
①	6HA 14	l=1.47	00	1.47	④	3HA 14	l=3.79	00	3.79	⑦	3*2HA 12	l=5.55	00	5.55
②	6HA 14	l=3.42	00	3.17	⑤	3HA 14	l=2.35	00	2.35	⑧	42RL 6	l=1.56	31	
③	3HA 14	l=6.08	00	5.59	⑥	3HA 8	l=5.85	00	5.85					

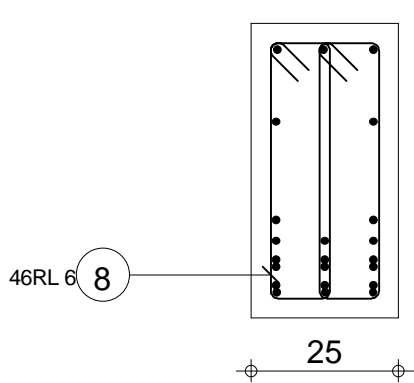
R+2 PROJET CERME_PLANS GUIDES		POUTRE 17 Section 20x70		Nombre 1		Tél.		Fax			
						Béton : BETON25 = 0.828 m3		Acier HA 400 = 116 kg			
						Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
						Densité = 158.2 kg/ m3		Echelle pour la vue 6.05cm/m		Page 1/1	
						Surface du coffrage = 9.62 m2		Echelle pour la section 5.71cm/m			



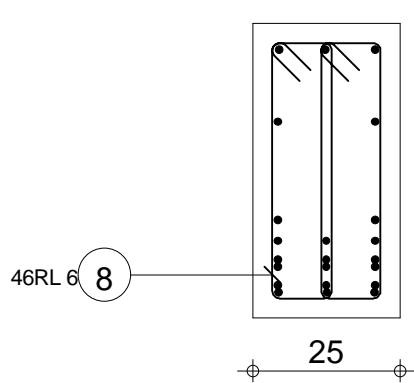
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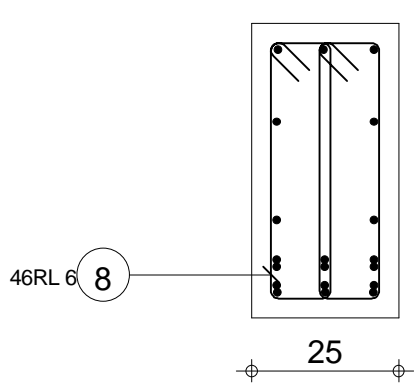
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C-C

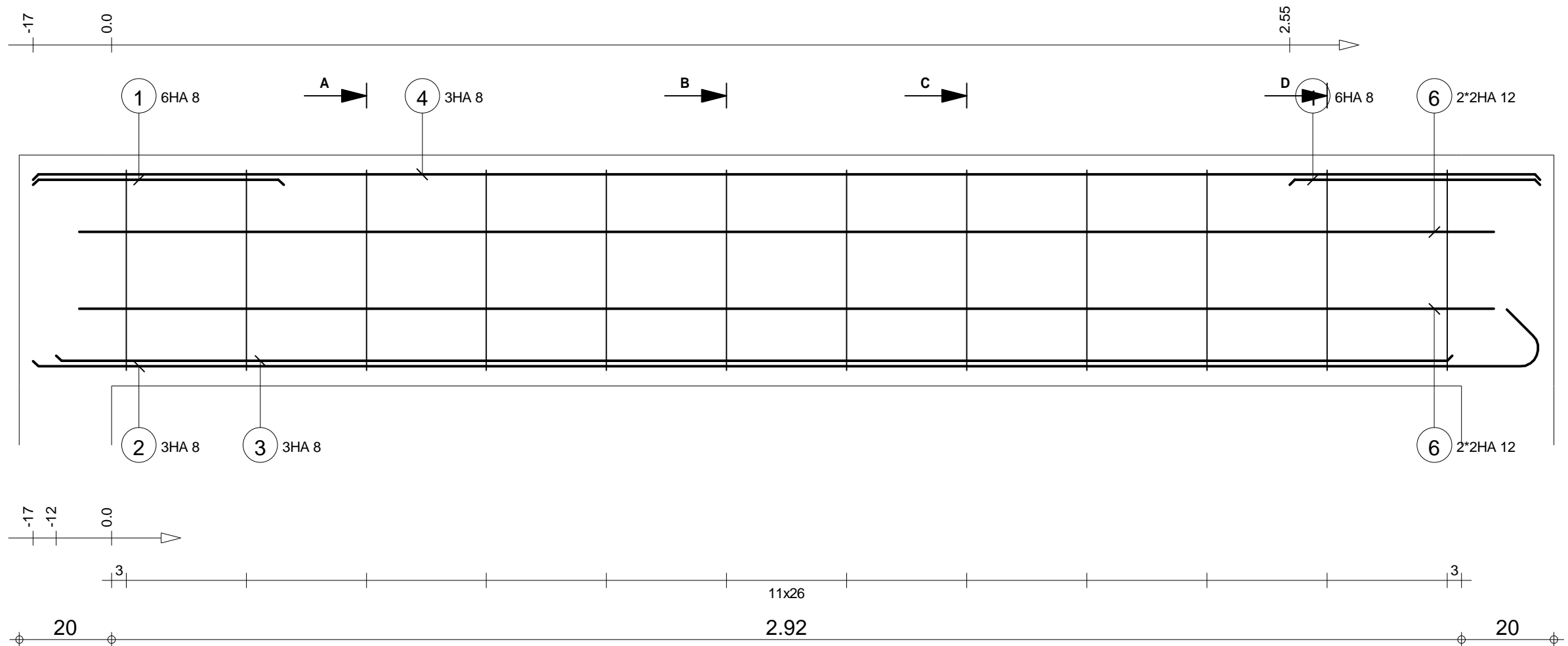


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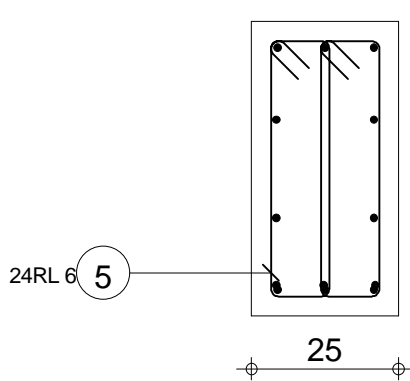


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 8	l=97	00	④	3HA 12	l=5.38	00	⑦	6HA 8	l=3.28	00
②	6HA 12	l=3.54	00	⑤	3HA 12	l=4.18	00	⑧	46RL 6	l=1.21	31
③	6HA 12	l=3.49	00	⑥	3HA 12	l=2.38	00	⑨	4*2HA 12	l=3.22	00

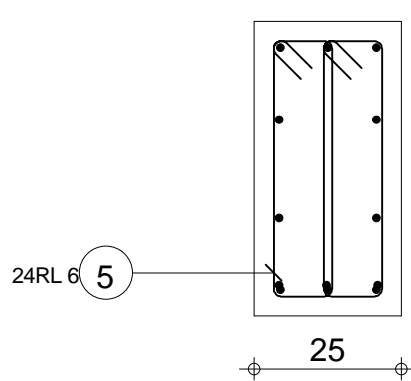
R+2 PROJET CERME_PLANS GUIDES		POUTRE 18 Section 25x50		Nombre 1		Béton : BETON25 = 0.792 m3		Acier HA 400 = 102 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 12.3 kg	
						Densité = 145.2 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 8.07 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 5.67cm/m		Echelle pour la section 7.8cm/m	
								Page 1/1	



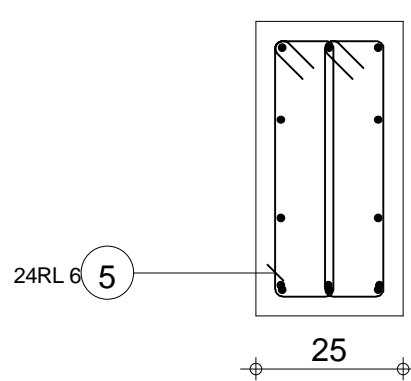
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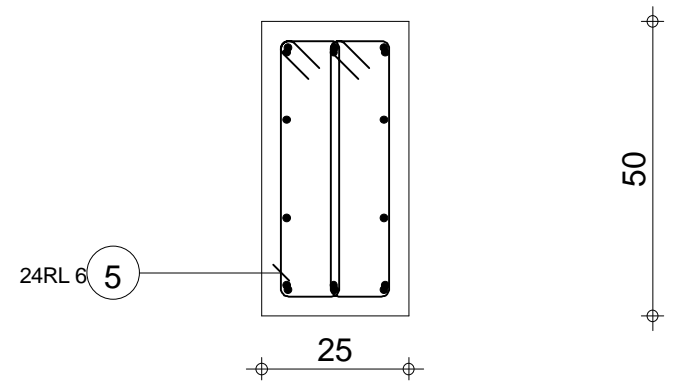
B-B



C-C

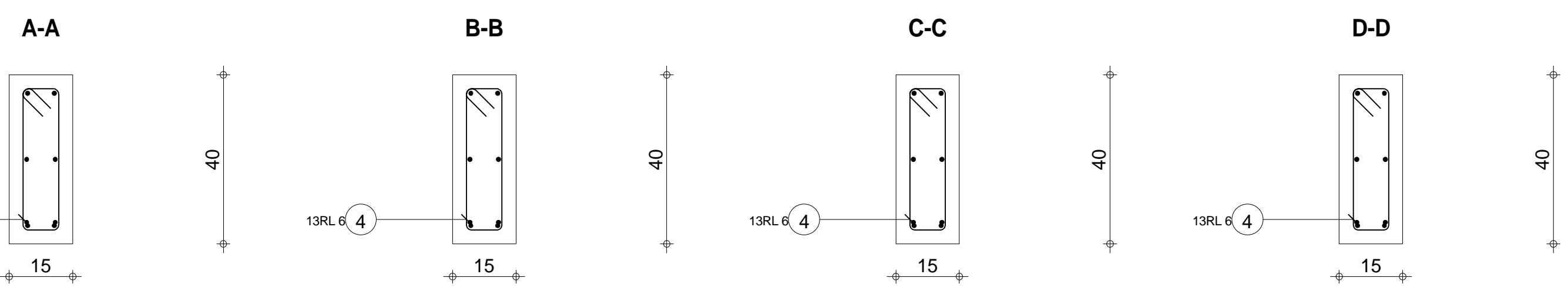
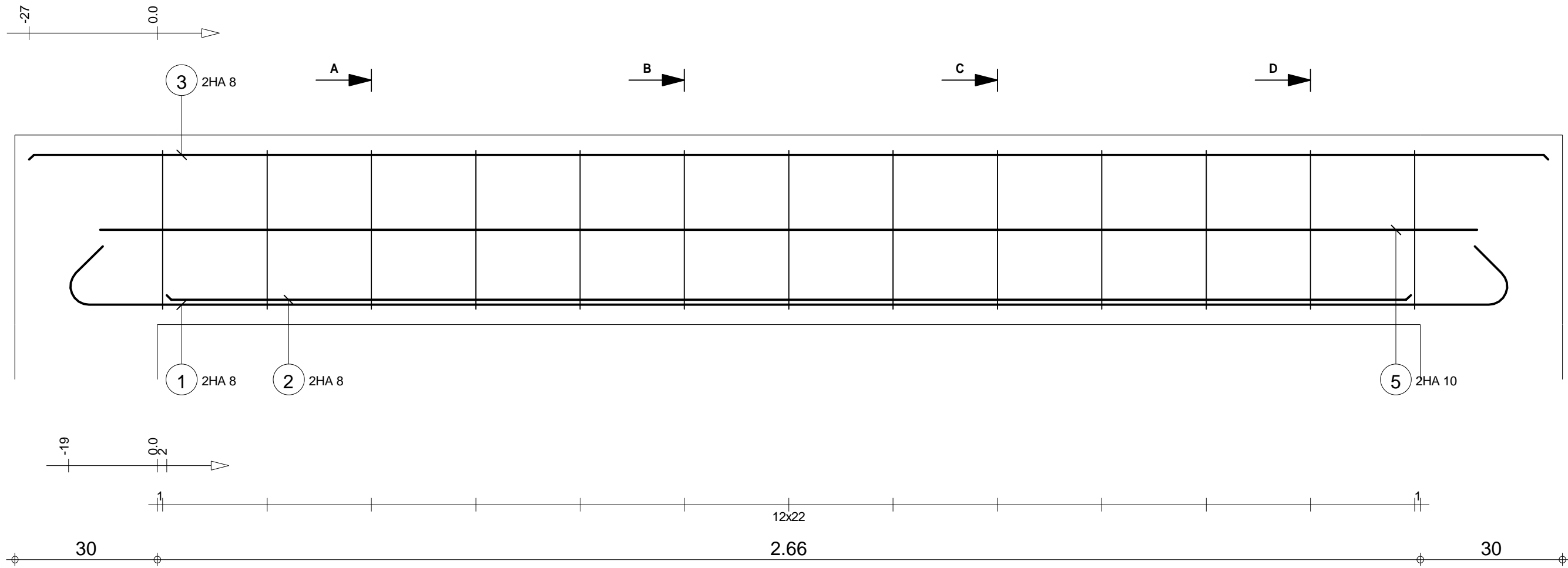



D-D

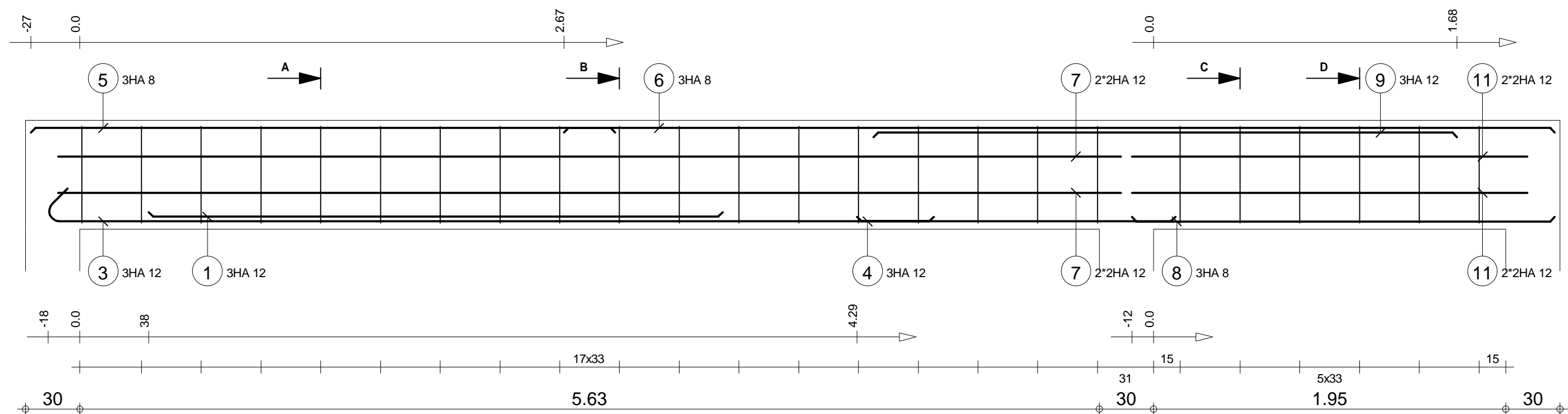


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	6HA 8	l=54	00	④	3HA 8	l=3.26	00
②	3HA 8	l=3.39	00	⑤	24RL 6	l=1.21	31
③	3HA 8	l=3.02	00	⑥	2*2HA 12	l=3.06	00

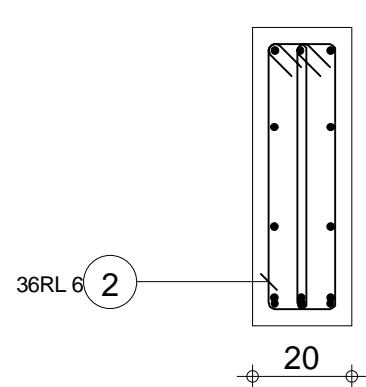
R+2 PROJET CERME_PLANS GUIDES		POUTRE 19 Section 25x50		Nombre 1		Tél.		Fax	
						Béton : BETON25 = 0.415 m3		Acier HA 400 = 23.6 kg	
						Enrobage inférieur 3 cm		Enrobage supérieur 3 cm	
						Densité = 72.29 kg/ m3		Echelle pour la vue 9.33cm/m	
						Surface du coffrage = 4.3 m2		Echelle pour la section 7.8cm/m	
								Page 1/1	



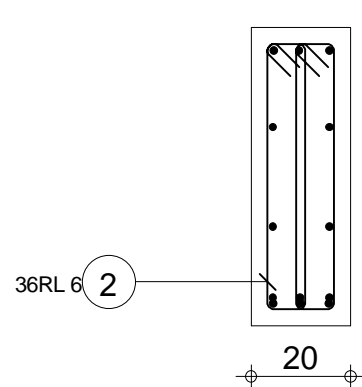
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme		
①	2HA 8	l=3.29	00	↗ 3.04	④	13RL 6	l=98	31	
②	2HA 8	l=2.62	00	2.62	⑤	2HA 10	l=2.90	00	2.90
③	2HA 8	l=3.20	00	3.20					



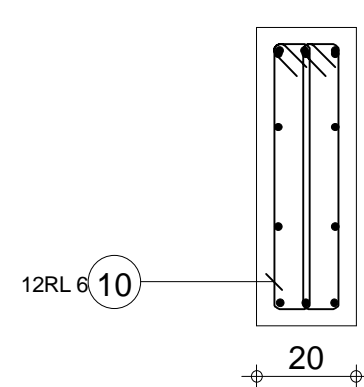
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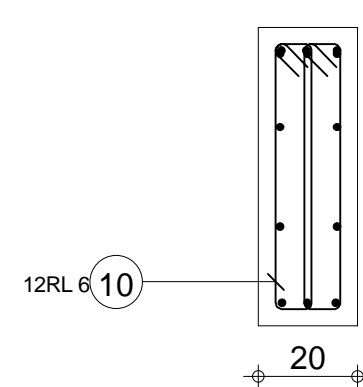
B-B



C-C

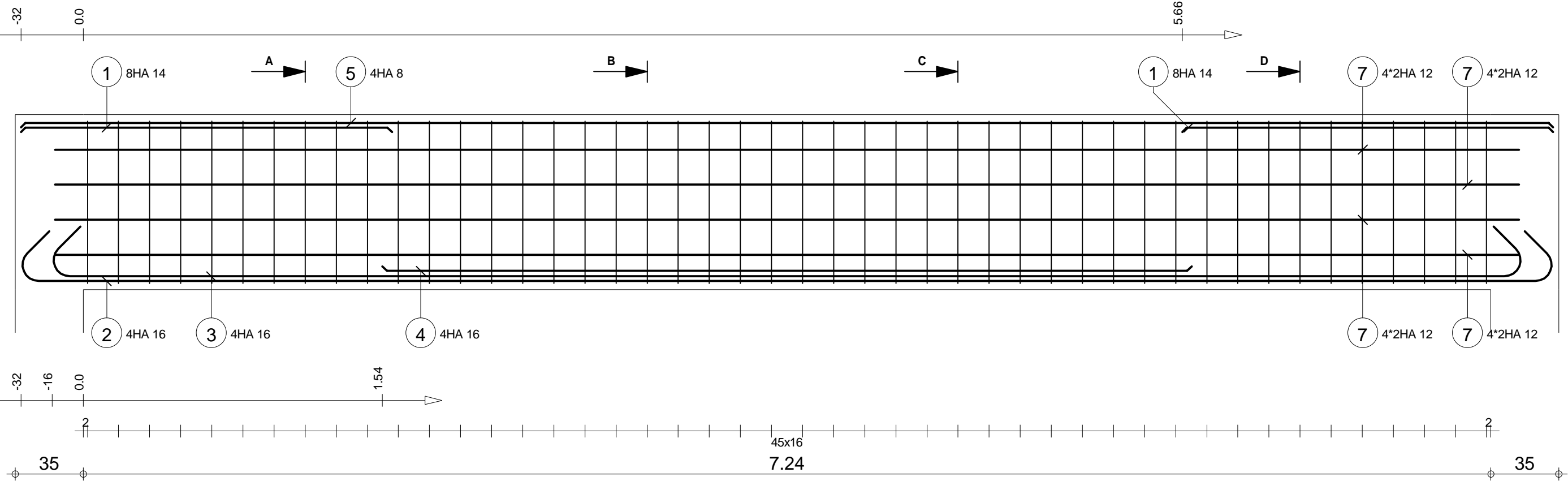


D-D

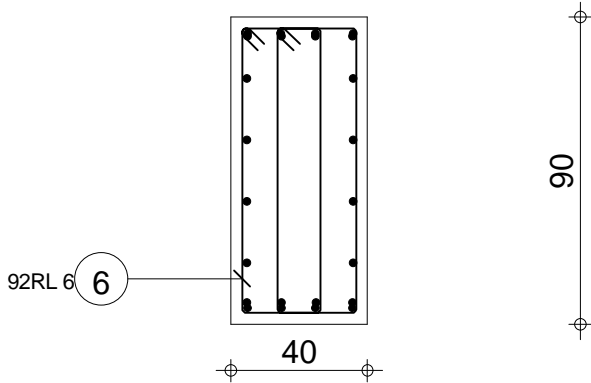


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	l=3.17	00	④	3HA 12	l=1.76	00	⑦	2*2HA 12	l=5.87	00	⑩	12RL 6	l=1.35	31
②	36RL 6	l=1.36	31	⑤	3HA 8	l=3.23	00	⑧	3HA 8	l=2.34	00	⑪	2*2HA 12	l=2.19	00
③	3HA 12	l=5.08	00	⑥	3HA 8	l=5.47	00	⑨	3HA 12	l=3.22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

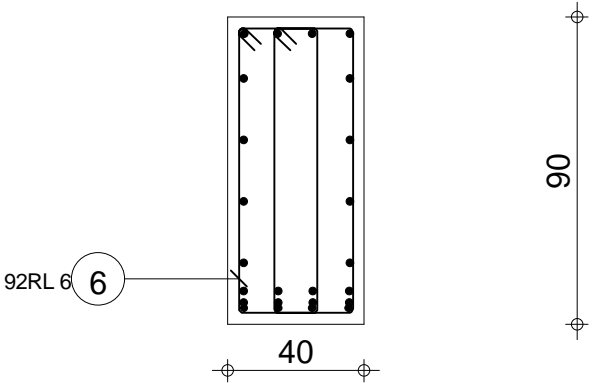
R+2 PROJET CERME_PLANS GUIDES		POUTRE 21 Section 20x60		Tél. Fax		Nombre 1		Béton : BETON25 = 1.02 m3		Acier HA 400 = 76.9 kg	
								Enrobage inférieur 3 cm		Acier RL 235 = 14.5 kg	
								Densité = 89.61 kg/ m3		Enrobage supérieur 3 cm	
								Surface du coffrage = 11.9 m2		Enrobage latéral 3 cm	
								Echelle pour la vue 4.28cm/m		Echelle pour la section 6.58cm/m	
										Page 1/1	



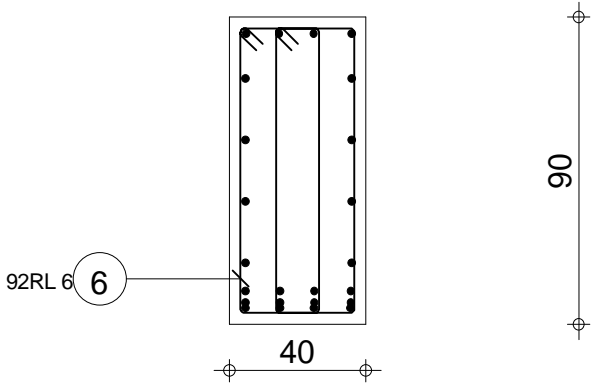
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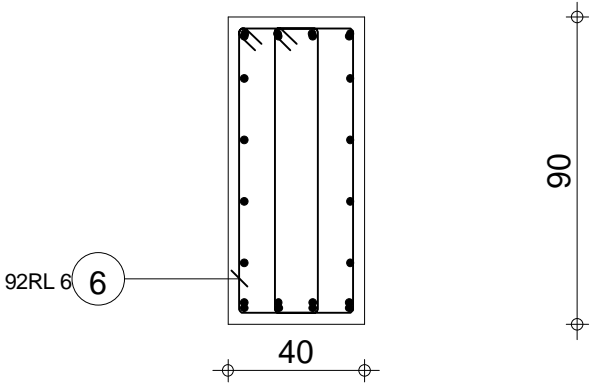
B-B



C-C

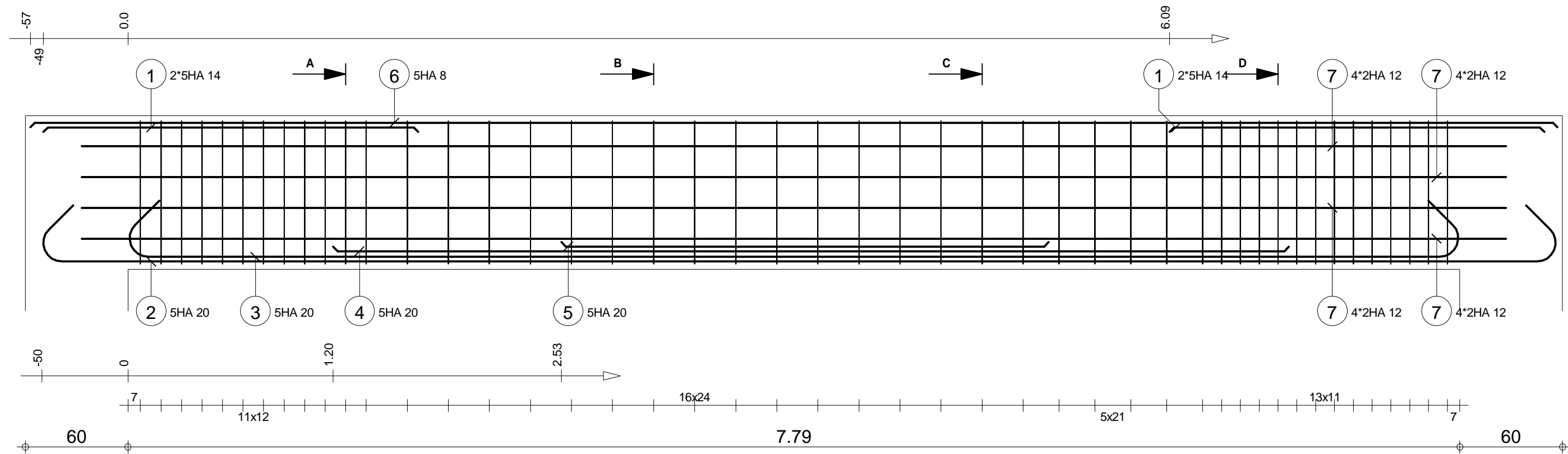


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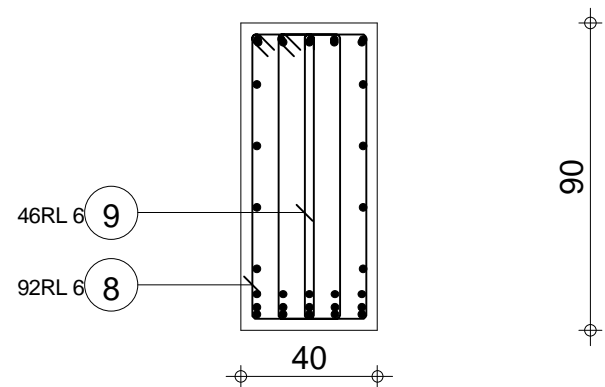


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme			
①	8HA 14	l=1.91	00	1.91	④	4HA 16	l=4.16	00	4.16	⑦	4*2HA 12	l=7.53	00	7.53
②	4HA 16	l=8.41	00	7.88	⑤	4HA 8	l=7.88	00	7.88					
③	4HA 16	l=8.09	00	7.56	⑥	92RL 6	l=2.27	31	24 8					

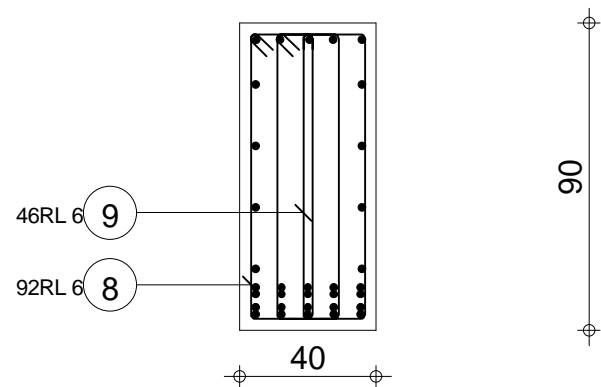
R+2 PROJET CERME_PLANS GUIDES		POUTRE 22 Section 40x90		Nombre 1		Béton : BETON25 = 2.86 m3		Acier HA 400 = 215 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 46.3 kg	
						Densité = 91.26 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 17.9 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.55cm/m		Echelle pour la section 4.52cm/m	
								Page 1/1	



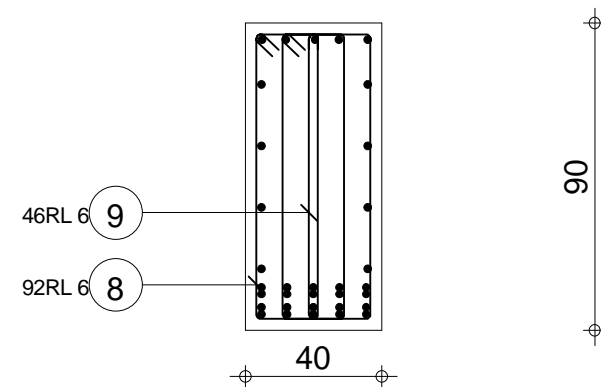
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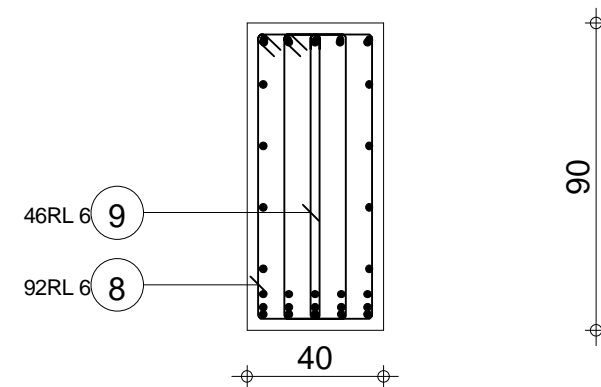
B-B



C-C

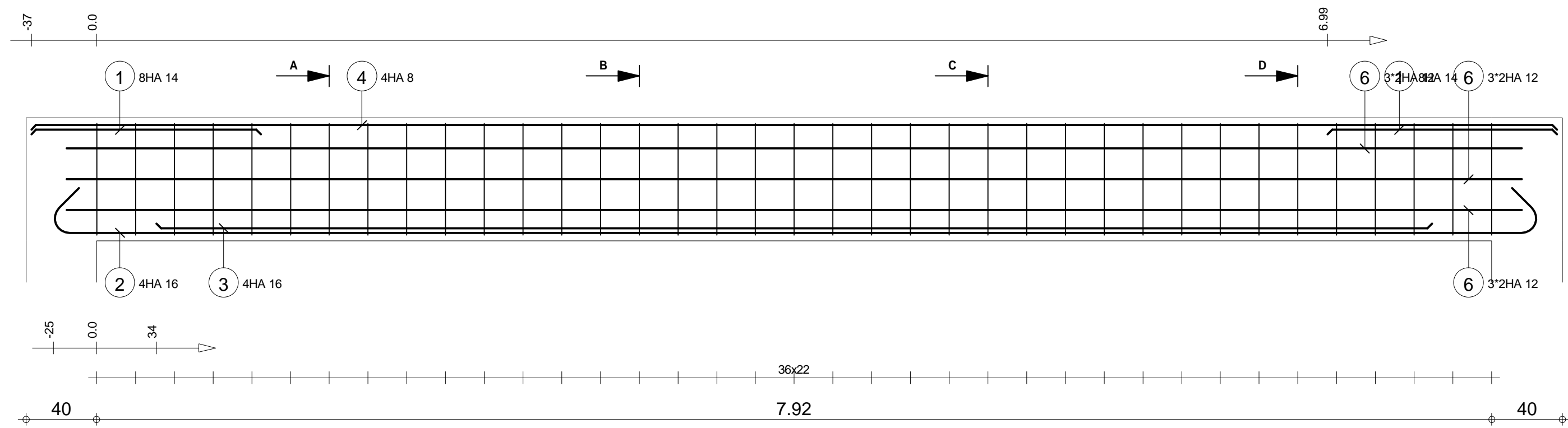


D-D

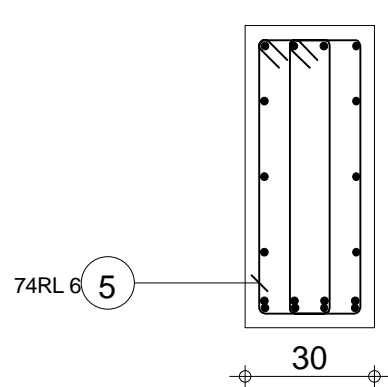


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	2*5HA 14 l=2.19	00	2.19	④	5HA 20 l=5.59	00	5.59	⑦	4*2HA 12 l=8.33	00	8.33
②	5HA 20 l=9.54	00	8.86	⑤	5HA 20 l=2.85	00	2.85	⑧	92RL 6 l=2.32	31	2.32
③	5HA 20 l=8.46	00	7.79	⑥	5HA 8 l=8.93	00	8.93	⑨	46RL 6 l=1.80		1.80

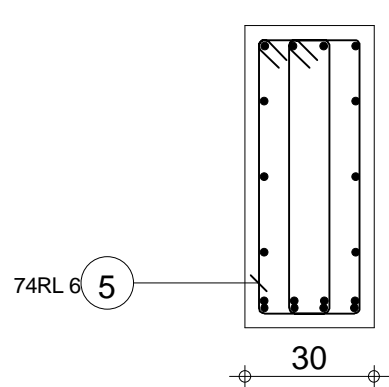
R+2 PROJET CERME_PLANS GUIDES		POUTRE 23 Section 40x90		Nombre 1		Béton : BETON25 = 3.24 m3		Acier HA 400 = 429 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 65.7 kg	
						Densité = 152.8 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 20 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.04cm/m		Echelle pour la section 4.52cm/m	
								Page 1/1	



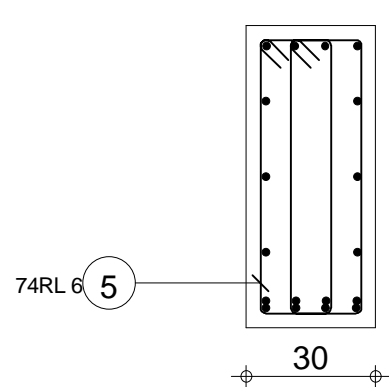
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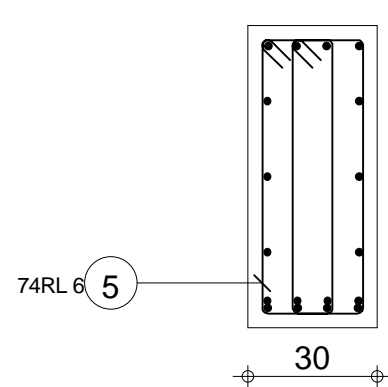
B-B



C-C

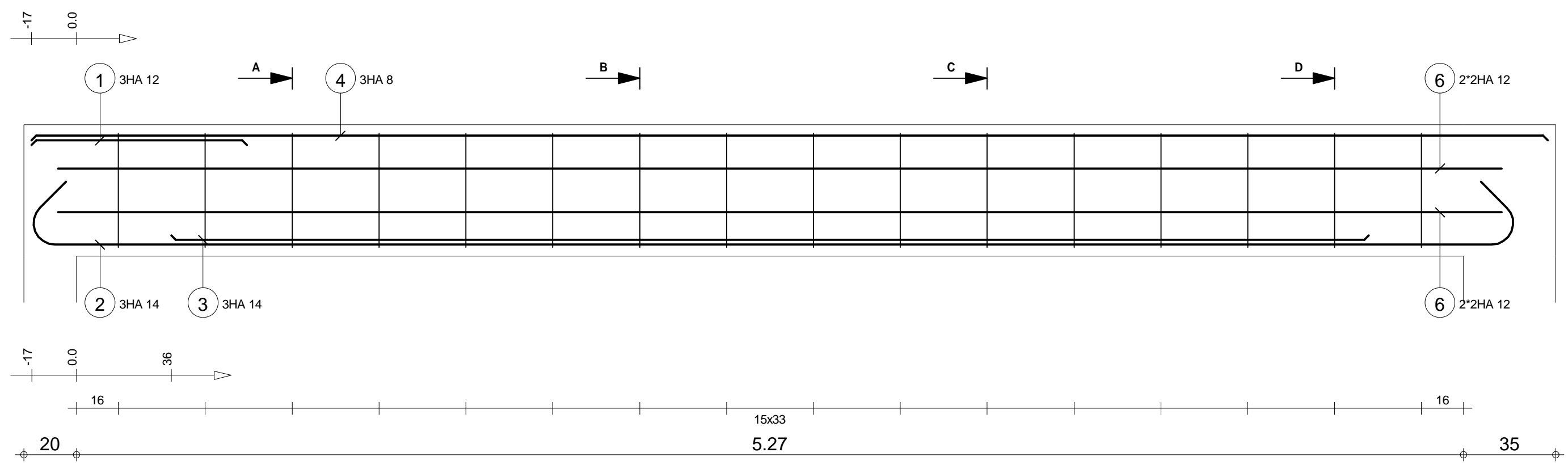


D-D

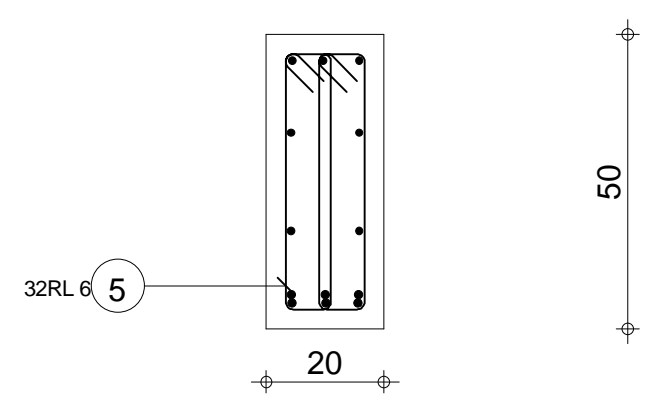


Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	8HA 14	l=1.30	00	④	4HA 8	l=8.66	00
②	4HA 16	l=8.96	00	⑤	74RL 6	l=1.73	31
③	4HA 16	l=7.24	00	⑥	3*2HA 12	l=8.26	00

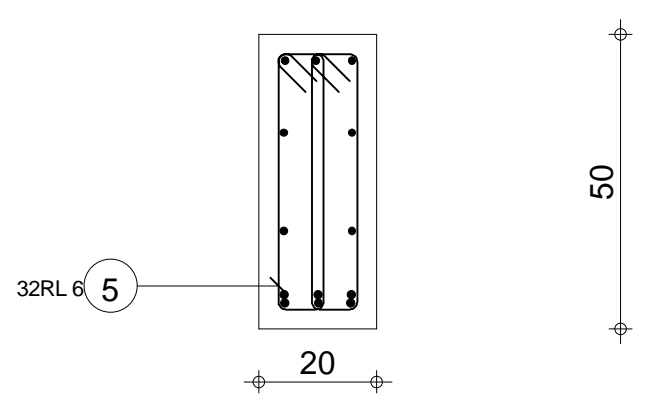
R+2 PROJET CERME_PLANS GUIDES		POUTRE 24 Section 30x70		Nombre 1		Béton : BETON25 = 1.83 m3		Acier HA 400 = 173 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 28.5 kg	
						Densité = 109.8 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 15 m2		Enrobage latéral 3 cm	
						Echelle pour la vue 4.16cm/m		Echelle pour la section 5.71cm/m	
								Page 1/1	



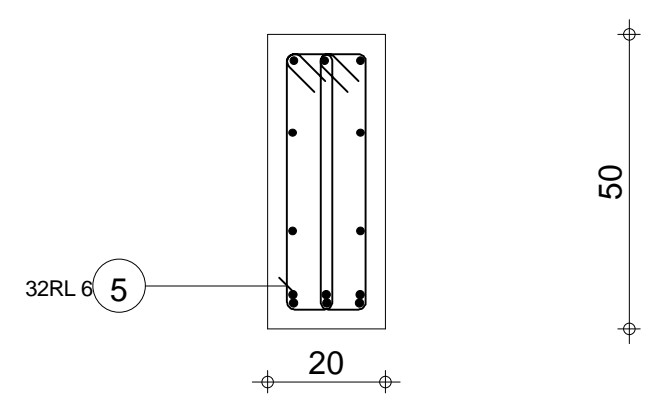
A-A



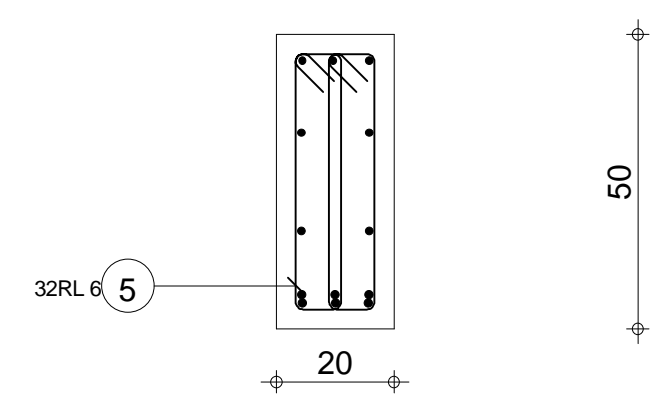
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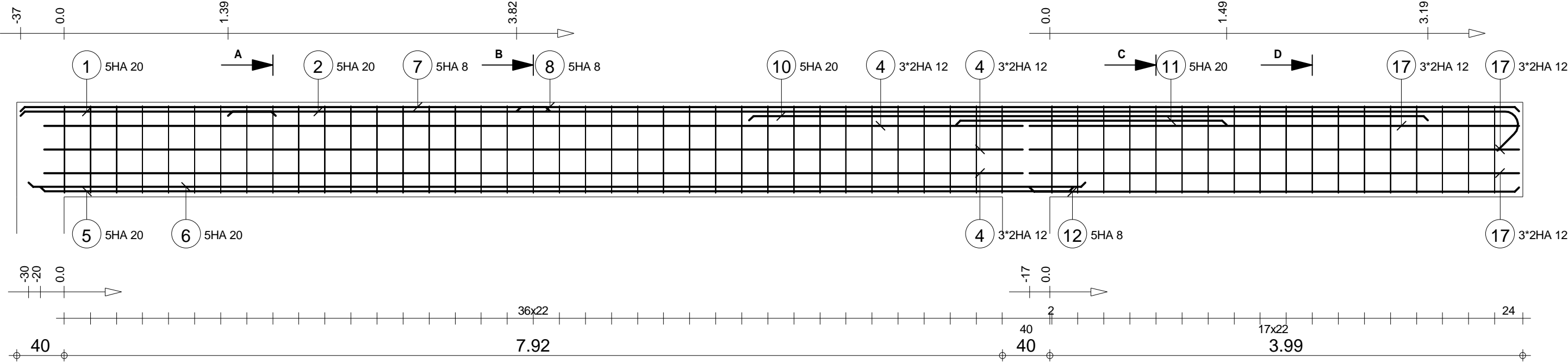
C-C



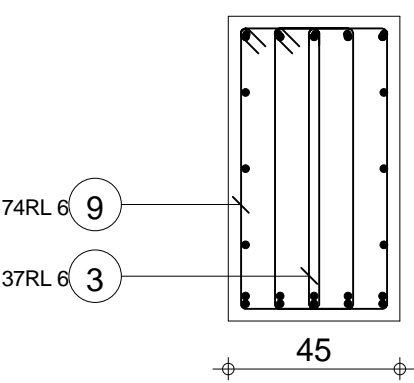
D-D



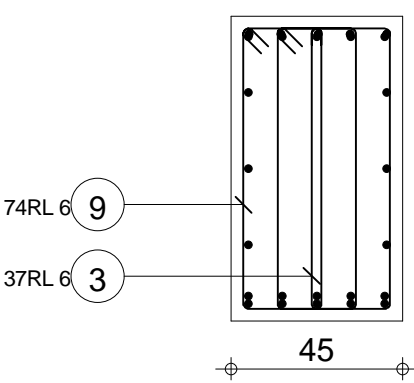
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	l=82	00	④	3HA 8	l=5.76	00
②	3HA 14	l=6.12	00	⑤	32RL 6	l=1.16	31
③	3HA 14	l=4.55	00	⑥	2*2HA 12	l=5.48	00



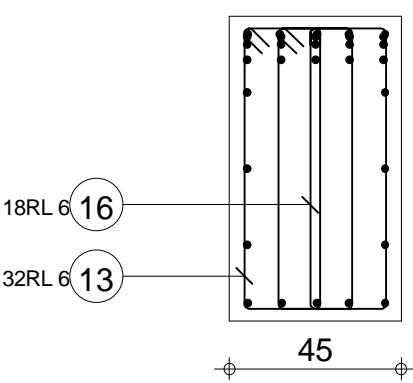
A-A



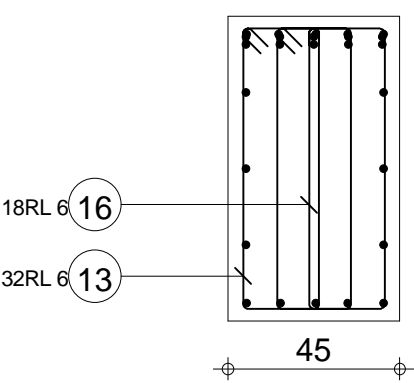
B-B



C-C


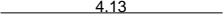


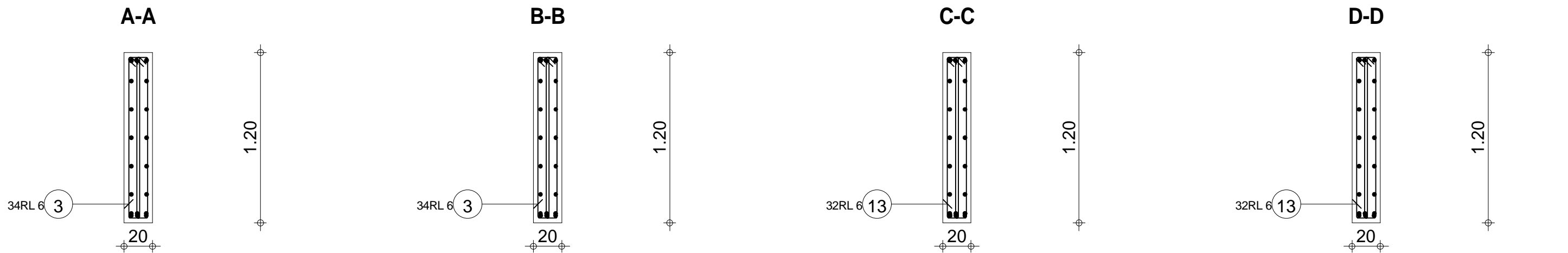
D-D



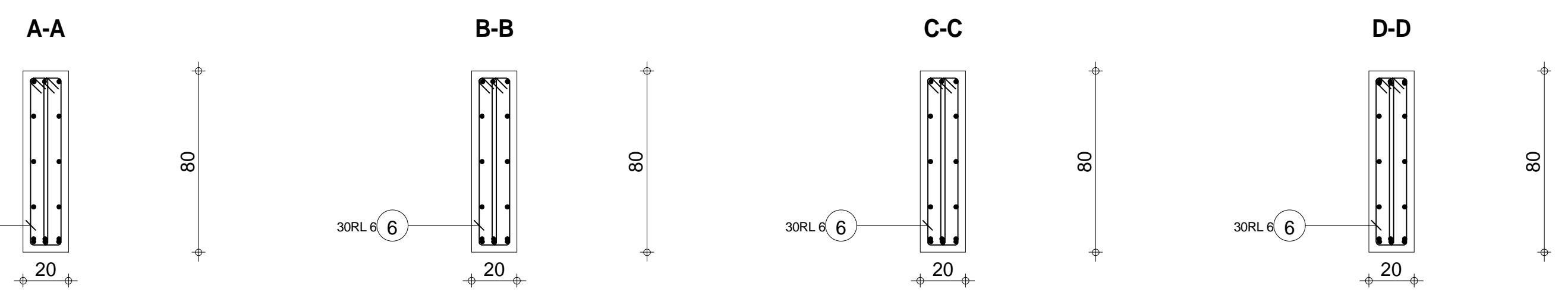
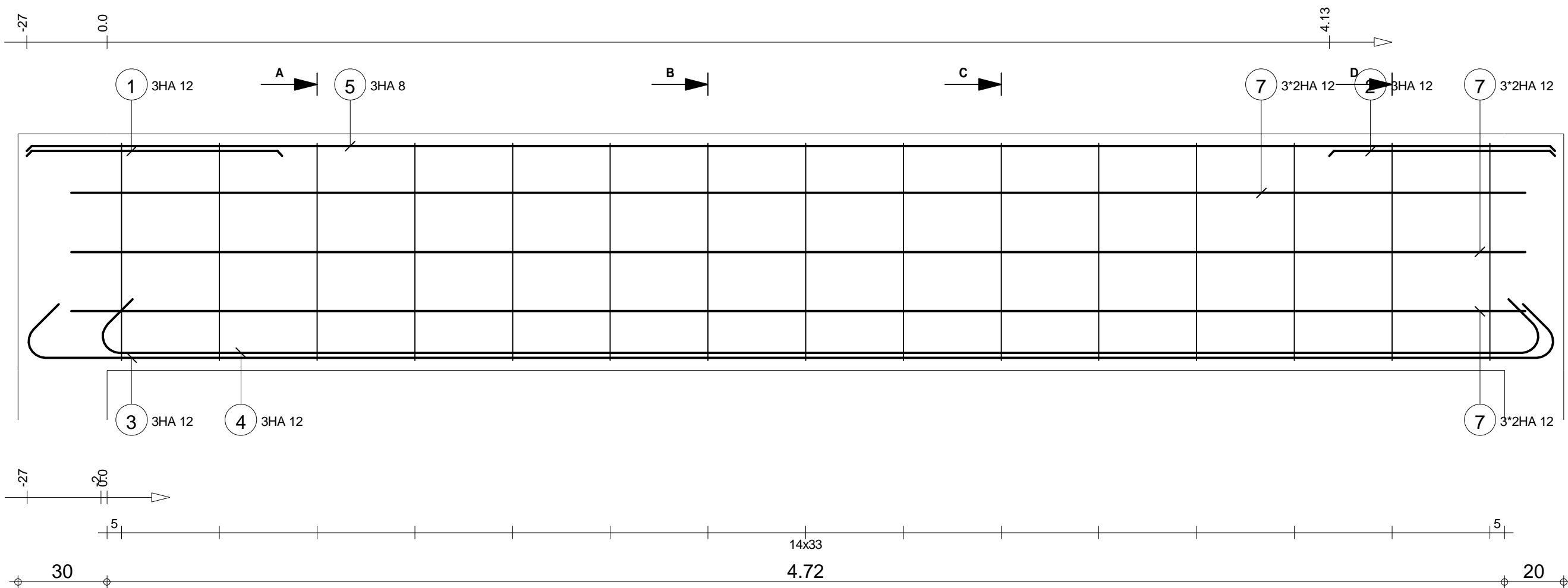
Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme				
①	5HA 20	l=2.16	00	④	3*2HA 12	l=8.26	00	⑦	5HA 8	l=4.47	00	⑩	5HA 20	l=5.73	00	⑬	32RL 6	l=2.17	31				
②	5HA 20	l=11.24	00	⑤	5HA 20	l=8.72	00	⑧	5HA 8	l=8.47	00	⑪	5HA 20	l=2.28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

POUTRE 26
Section 45x80

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				Acier HA 400 = 244 kg			
R+2												Nombre 1		Béton : BETON25 = 2.84 m3		Acier RL 235 = 37.5 kg			
PROJET CERME_PLANS GUIDES												POUTRE 27		Enrobage inférieur 3 cm		Enrobage supérieur 3 cm		Enrobage latéral 3 cm	
Section 20x120														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			



Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme	Pos.	Armature	Code	Forme
①	3HA 12	l=86	00	④	3HA 12	l=5.24	00	⑦	3*2HA 12	l=4.91	00
②	3HA 12	l=76	00	⑤	3HA 8	l=5.16	00				
③	3HA 12	l=5.54	00	⑥	30RL 6	l=1.76	31				

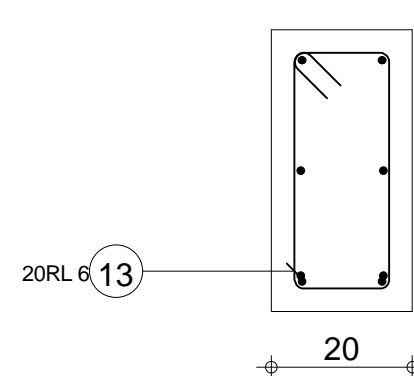
R+2 PROJET CERME_PLANS GUIDES		POUTRE 28 Section 20x80		Nombre 1		Béton : BETON25 = 0.835 m3		Acier HA 400 = 65.3 kg	
						Enrobage inférieur 3 cm		Acier RL 235 = 11.7 kg	
						Densité = 92.22 kg/ m3		Enrobage supérieur 3 cm	
						Surface du coffrage = 9.62 m2		Enrobage latéral 3 cm	
						Echelle 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	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=2.48	00	2.48	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=1.96	00	1.96
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 = 32.1 kg
Acier RL 235 = 12.9 kg

Enrobage inférieur 3 cm

Enrobage supérieur 3 cm

Densité = 55.28 kg/ m3
Surface du coffrage = 10 m2

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

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R+2

PROJET CERME_PLANS GUIDES

POUTRE 31

Section 20x40