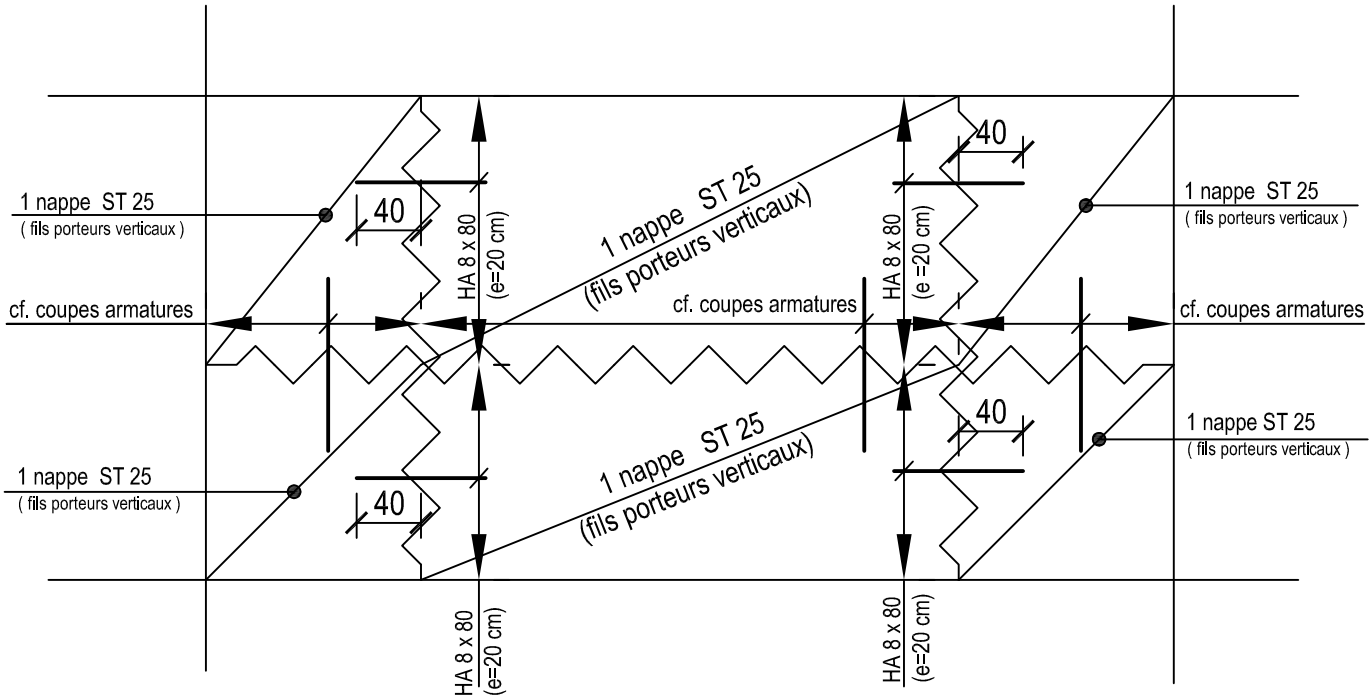
RECAP:

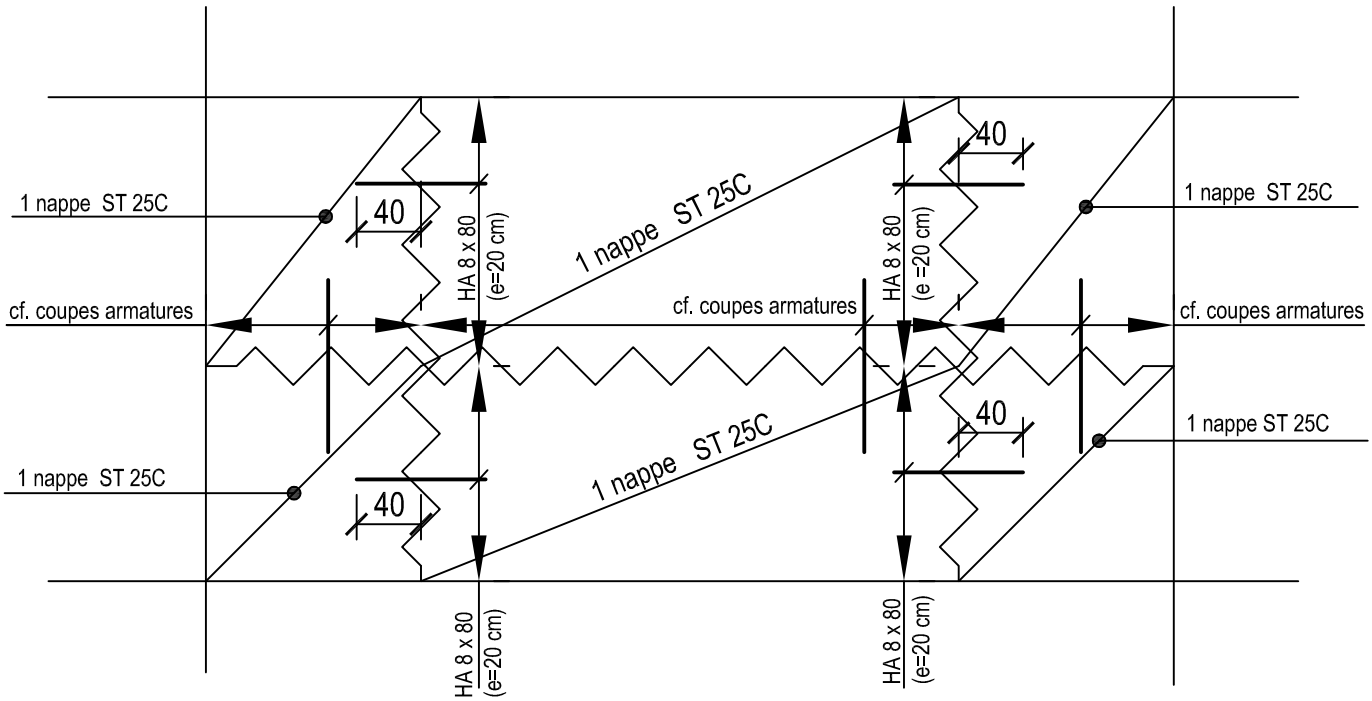
Quantité	Type de TS	Masse (kg)
19	ST 25	825,98
2	ST 25 C	115,91
19	ST 35	1101,12
8	ST 40 C	695,56
13	ST 50 C	1478,88
Total : (kg)		4217,45

Récapitulatif des aciers						
HA 500	HA 6	HA 8	HA 10	HA 12	HA 14	HA 16
Poids unitaire (kg/m)	0,22	0,40	0,62	0,89	1,21	1,58
Longueur totale (m)	369,38	3279,83	1882,72	270,68	977,76	1021,36
Poids total (kg)	82,00	1295,53	1161,64	240,36	1183,09	1613,75
Diamètre moyen :	11					
Masse totale : (kg)	5576,38					

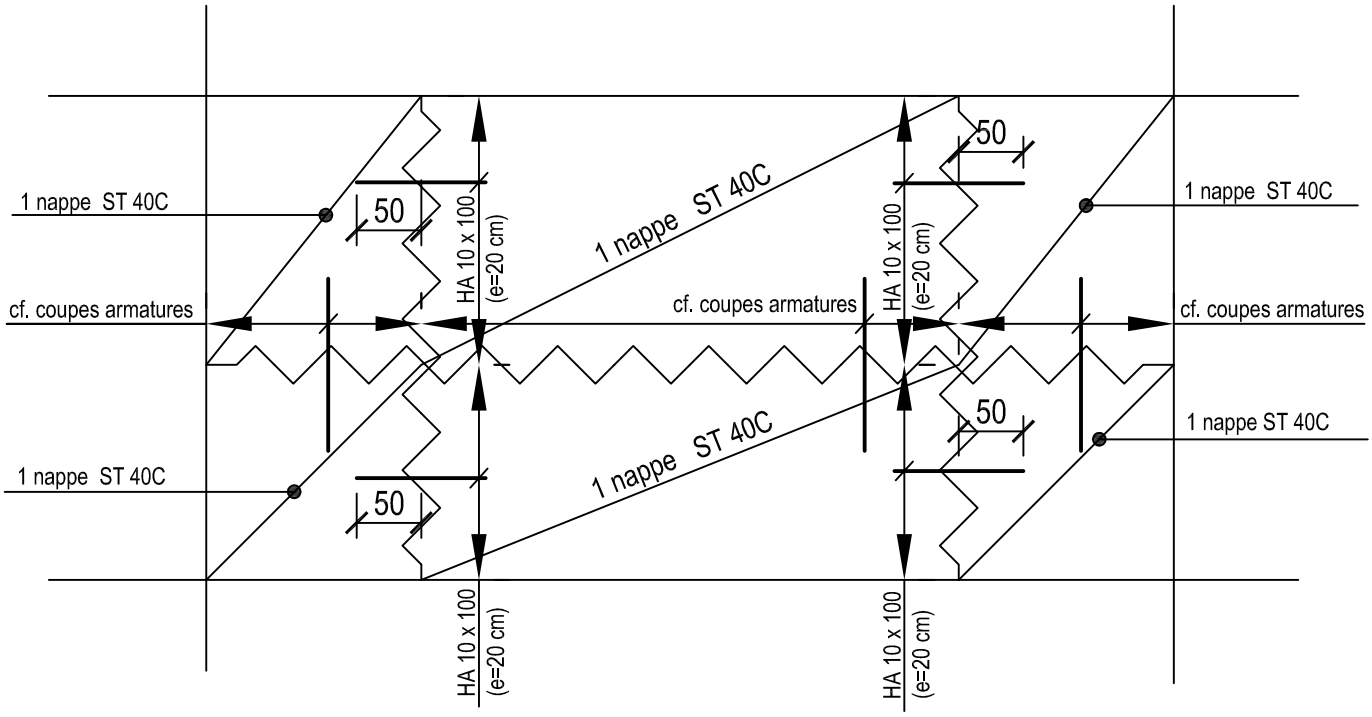
Détail liaisons entre passes avec une face armée en ST25 (élévation) SENS PORTEUR VERTICAL



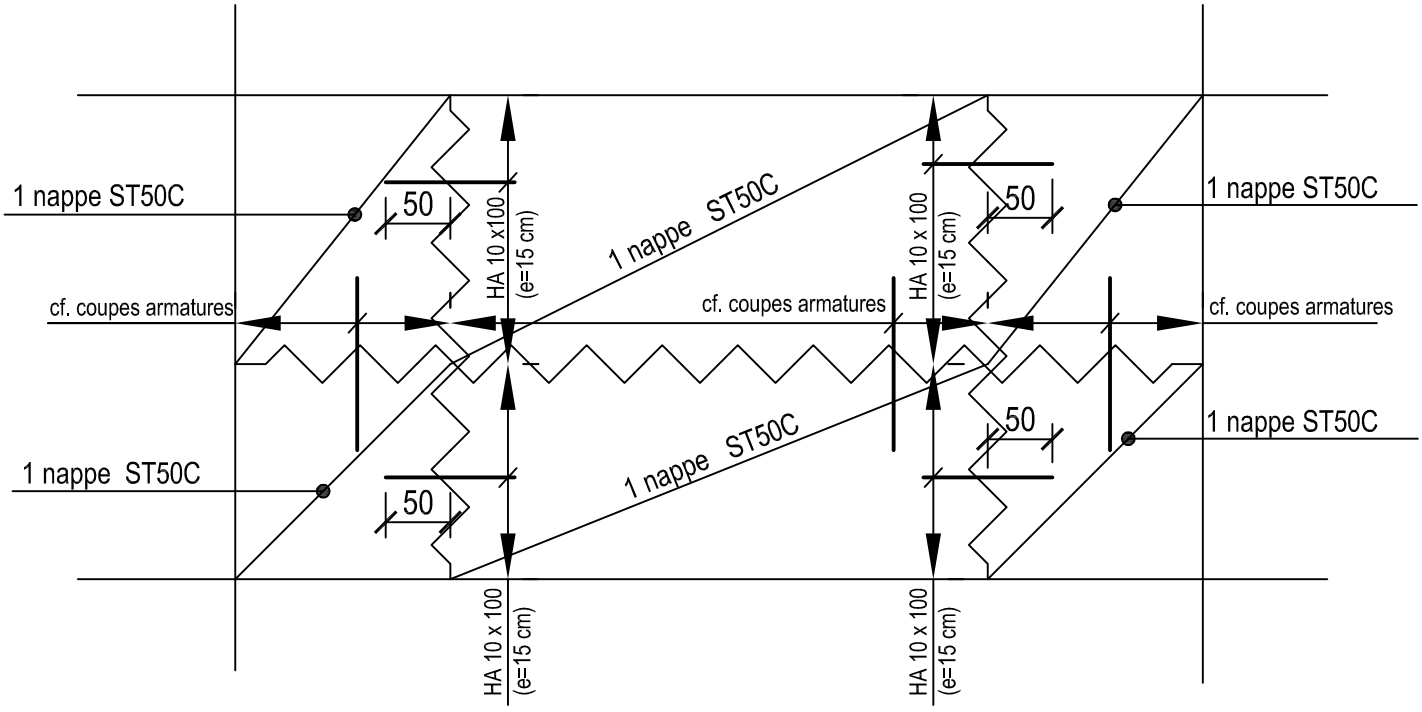
Détail liaisons entre passes avec une face armée en ST25C (élévation)



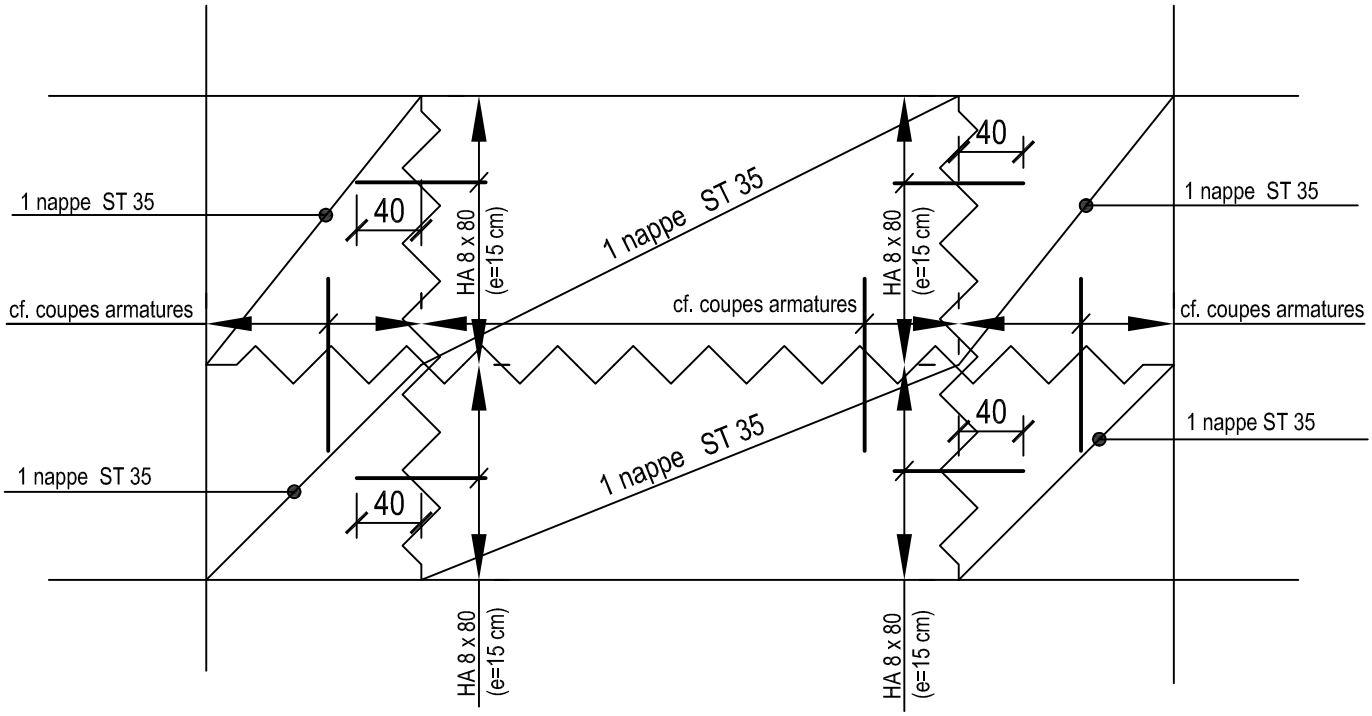
Détail liaisons entre passes avec une face armée en ST40C (élévation)



Détail liaisons entre passes avec une face armée en ST50C (élévation)



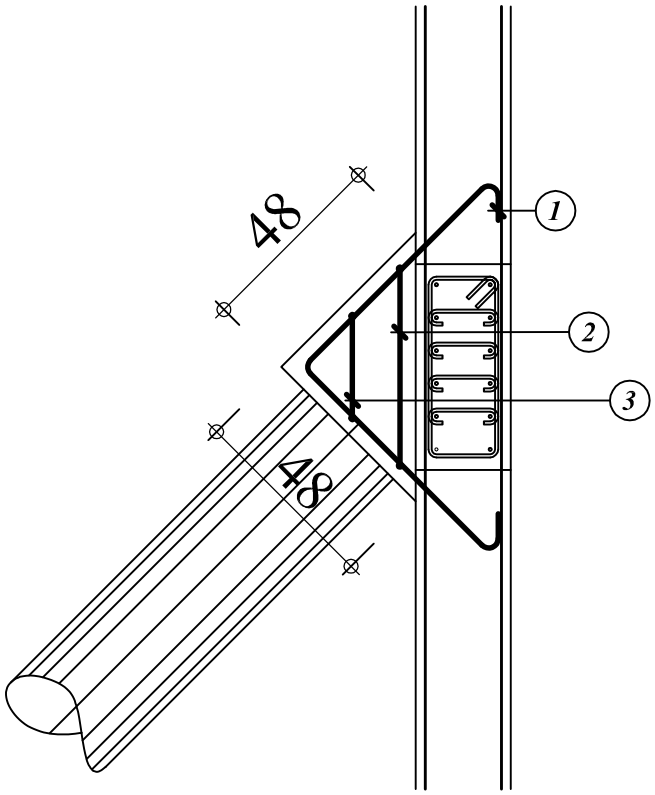
Détail liaisons entre passes avec une face armée en ST35 (élévation)



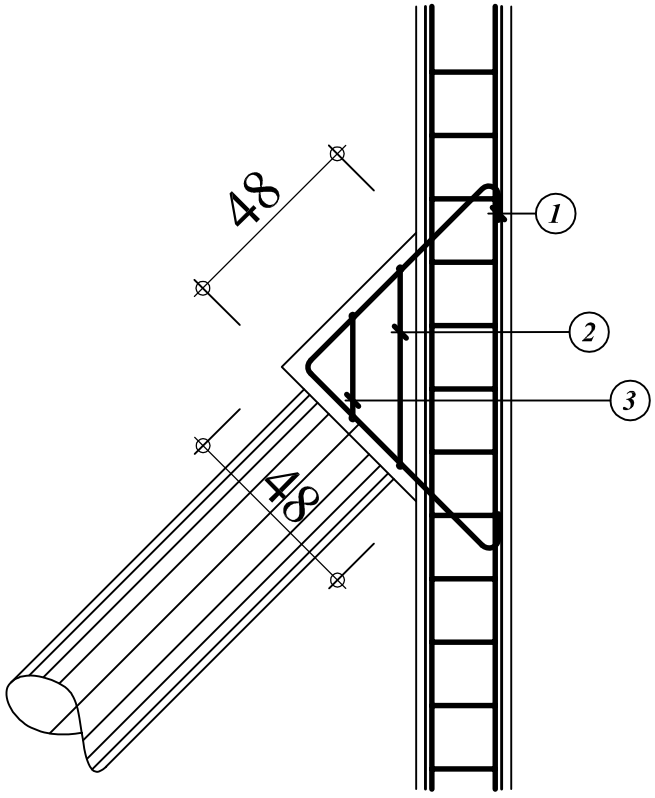
Principe armatures en tête de buton

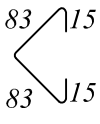
Gousset 60 x 60 x 60 pour butons Ø 400 maxi

Cas buton paroi / sol



Cas buton paroi / paroi

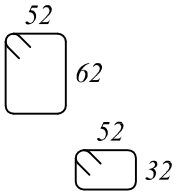




1 — 4 Adx Ø12 x 200 (e=16,5)

2 — 1 HA8 x 243

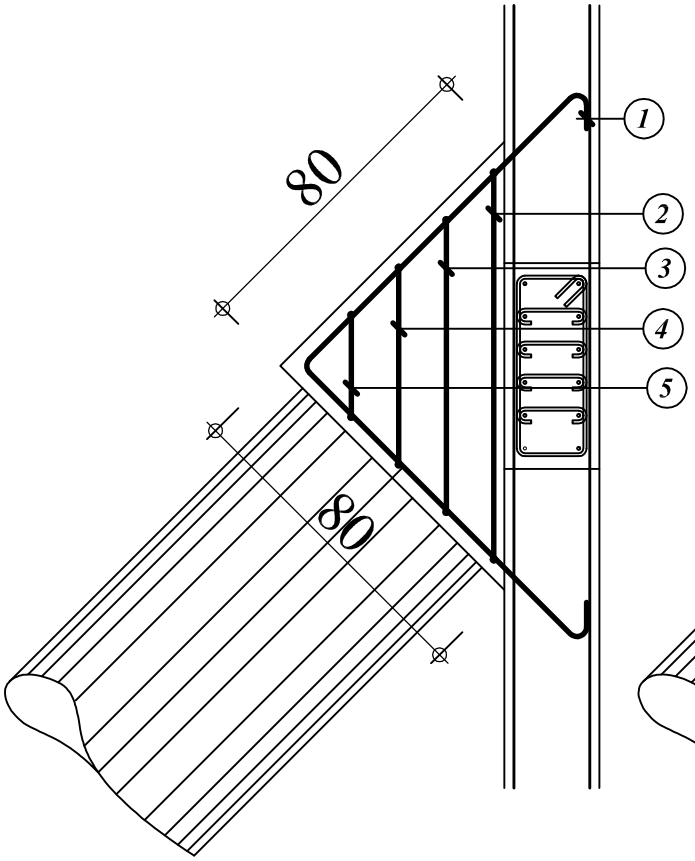
3 — 1 HA8 x 183



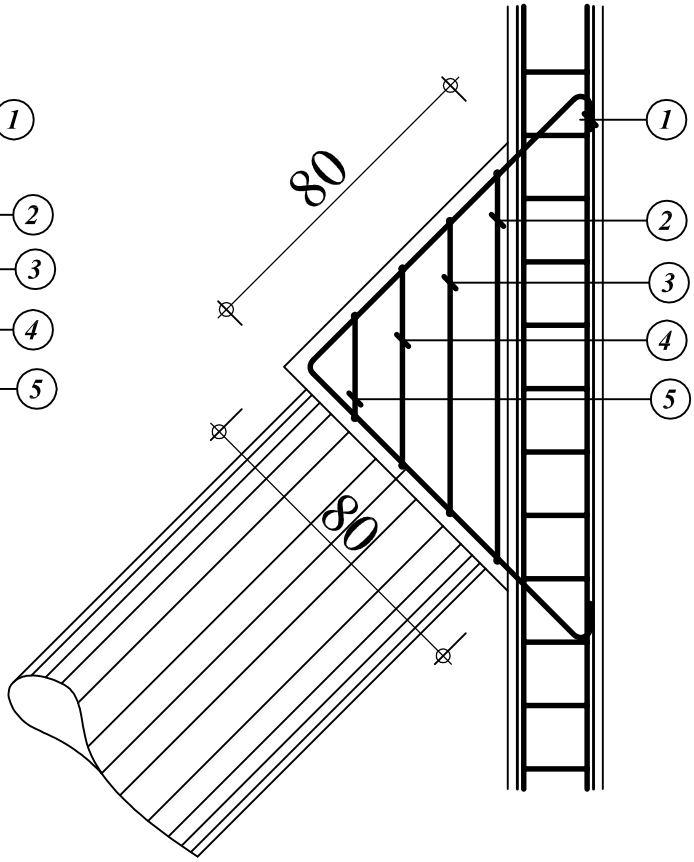
Principe armatures en tête de buton

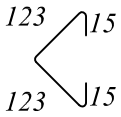
Gousset 100 x 100 x 100 pour butons Ø 800 maxi

Cas buton paroi / sol

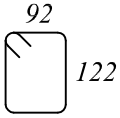


Cas buton paroi / paroi

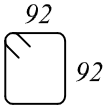




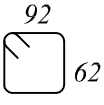
1. 4 Adx Ø12 x 276 (e=17,5)
2. 1 HA8 x 443



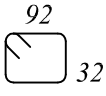
3. 1 HA8 x 383



4. 1 HA8 x 323



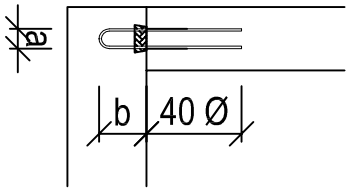
5. 1 HA8 x 263



Boites d'attentes

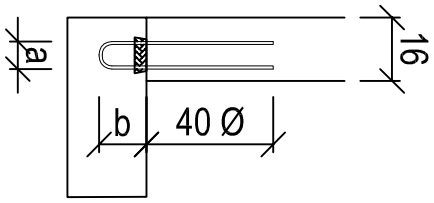
Type 1 (ha8 e = 30)

a = 6 - b = 12



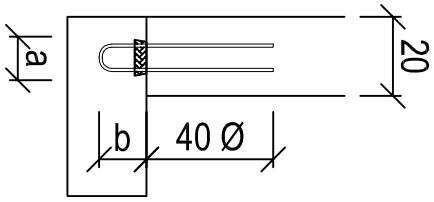
Type 2 (ha8 e = 20)

a = 8 - b = 12



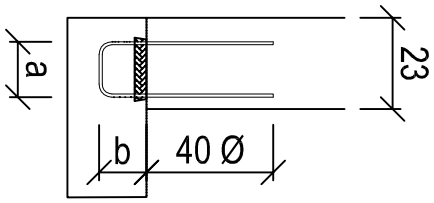
Type 3 (ha8 e = 20)

a = 11 - b = 12



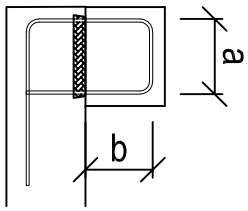
Type 4 (ha8 e = 20)

a = 14 - b = 12



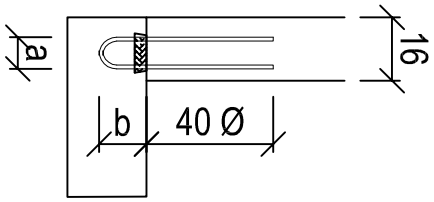
Type 5 (ha8 e = 20)

a = 19 - b = 17



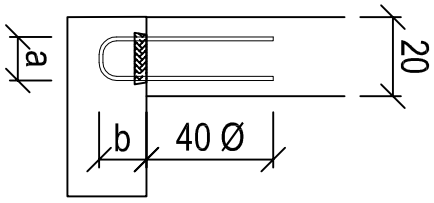
Type 6 (ha10 e = 20)

a = 8 - b = 12



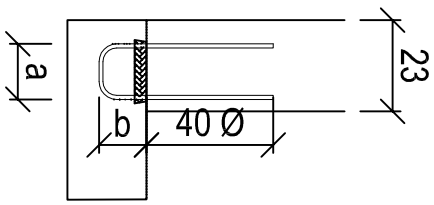
Type 7 (ha10 e = 20)

a = 11 - b = 12



Type 8 (ha10 e = 20)

a = 14 - b = 12

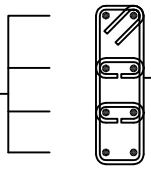


Armatures des Bandes Pleines.
Pour Paroi de ***20cm*** d'épaisseur

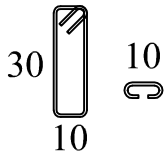
BP0

rec 70

4 x 2 ha 14 x filants



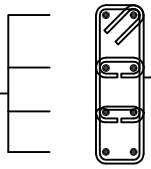
cad ha 8 x 100 (e = 20)
+ 2 ép ha 6 x 30 (e = 20)



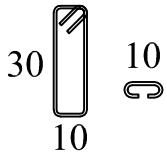
BP1

rec 80

4 x 2 ha 16 x filants



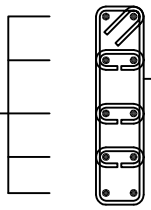
cad ha 8 x 100 (e = 20)
+ 2 ép ha 6 x 30 (e = 20)



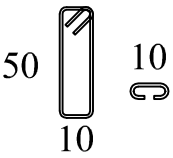
BP2

rec 80

5 x 2 ha 16 x filants



cad ha 8 x 120 (e = 20)
+ 3 ép ha 8 x 30 (e = 20)

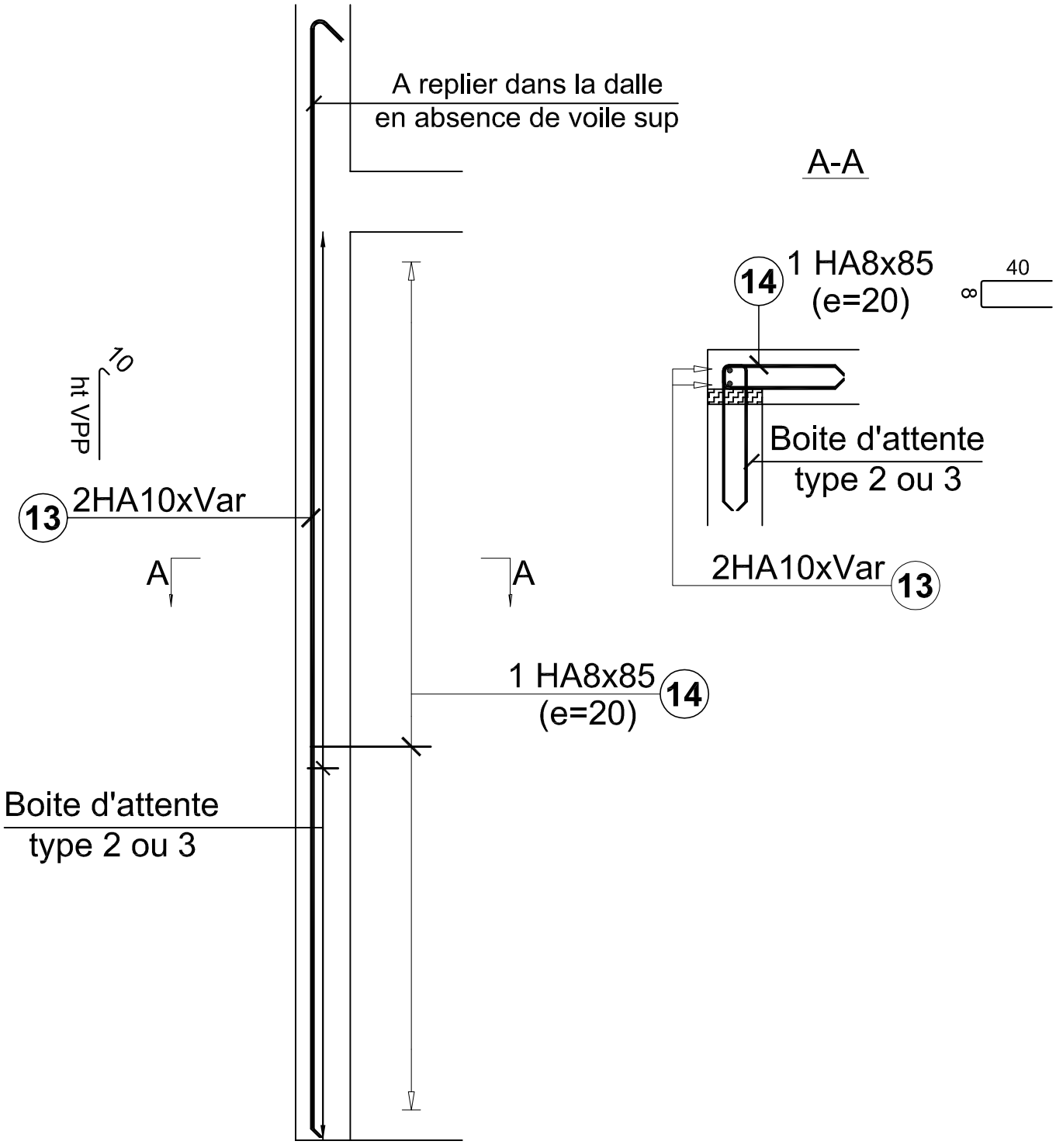


Elément standards

Raidisseurs

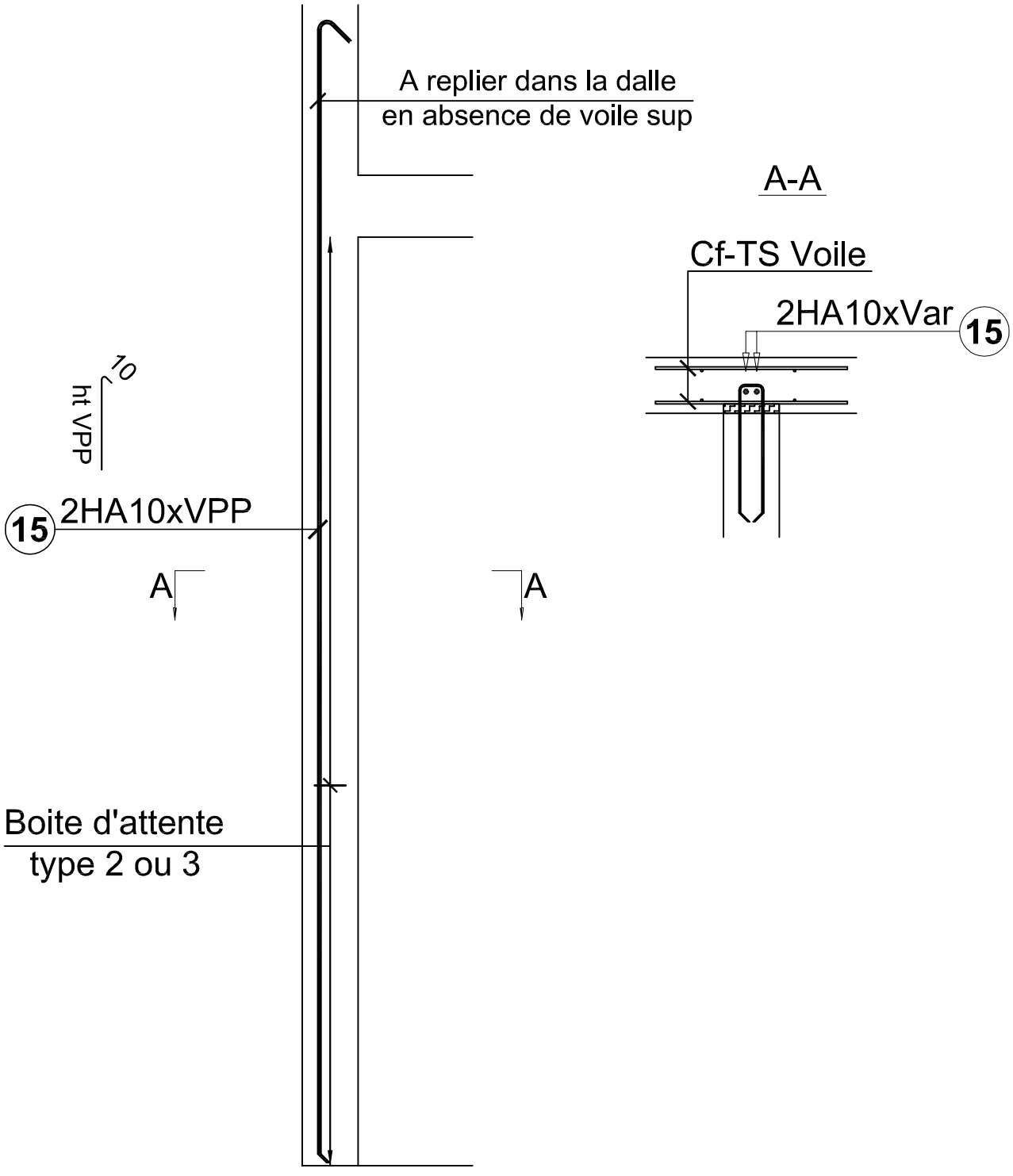
Raidisseur -L1-

Nombre = 7



Raidisseur -T1-

Nombre = 10

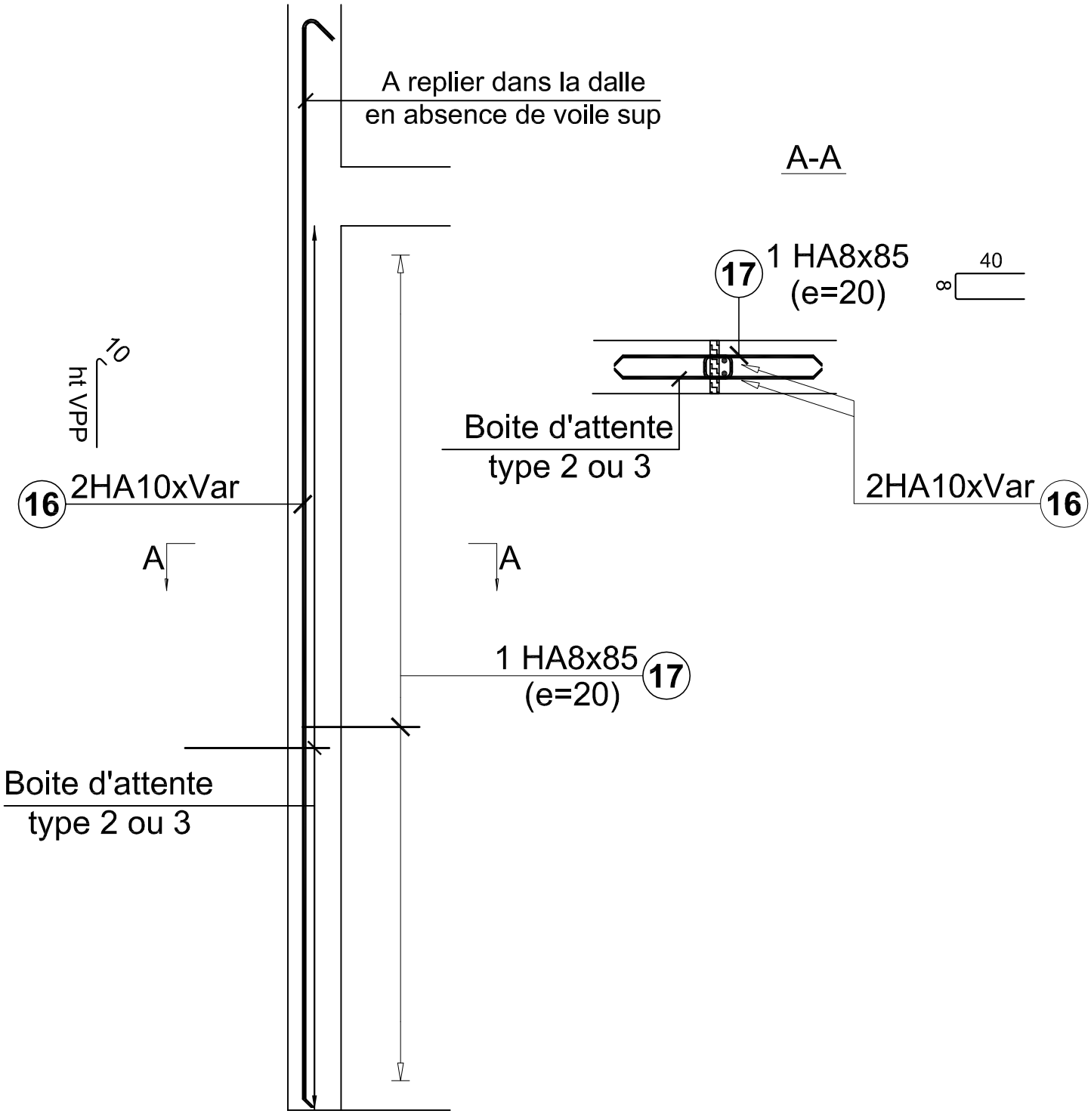


Elément standards

Raidisseurs

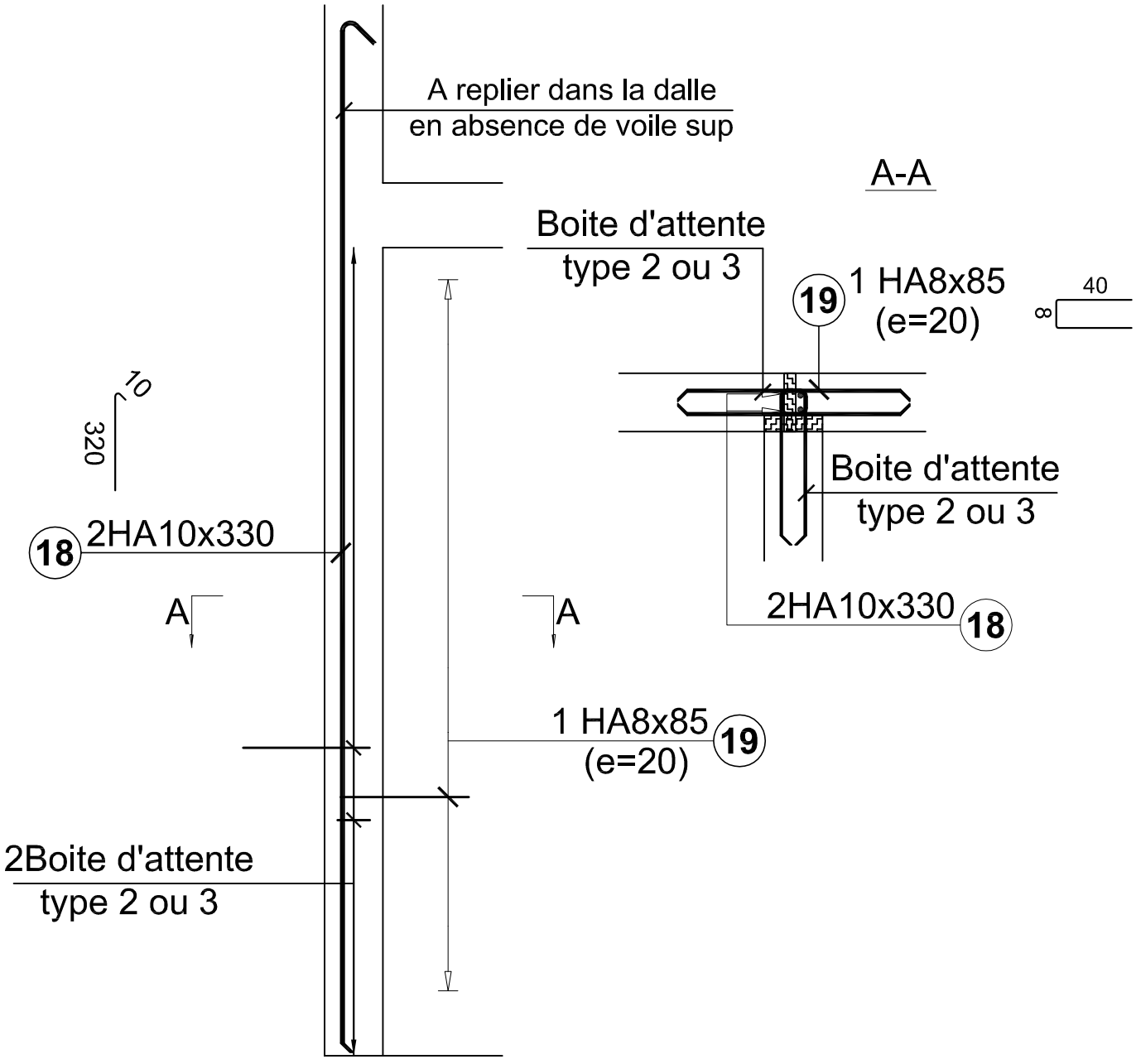
Raidisseur -D1-

Nombre = 2



Raidisseur -D2-

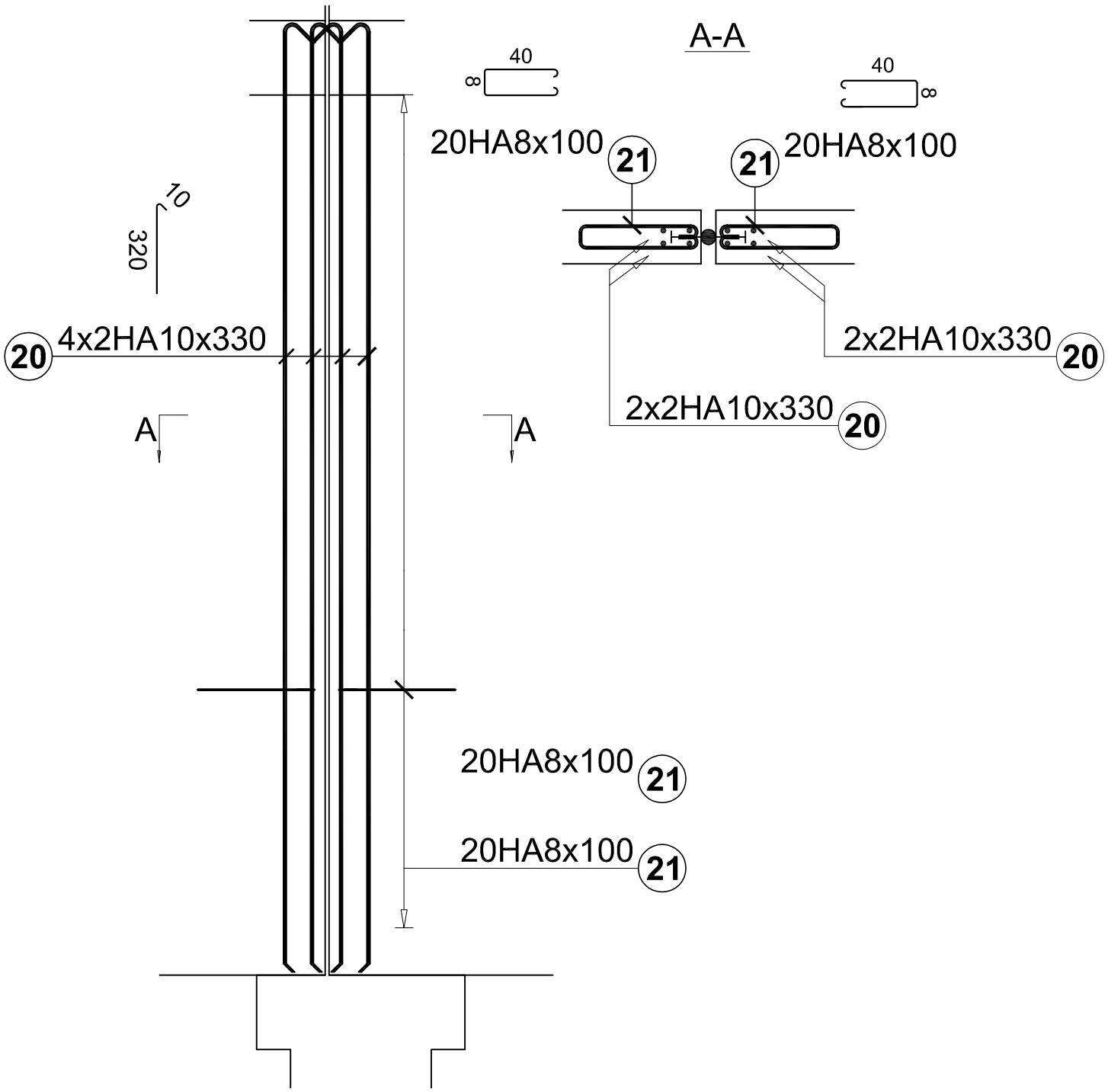
Nombre = 2



Elément standards *Raidisseurs*

Raidisseur -RWS-

Nombre = 1

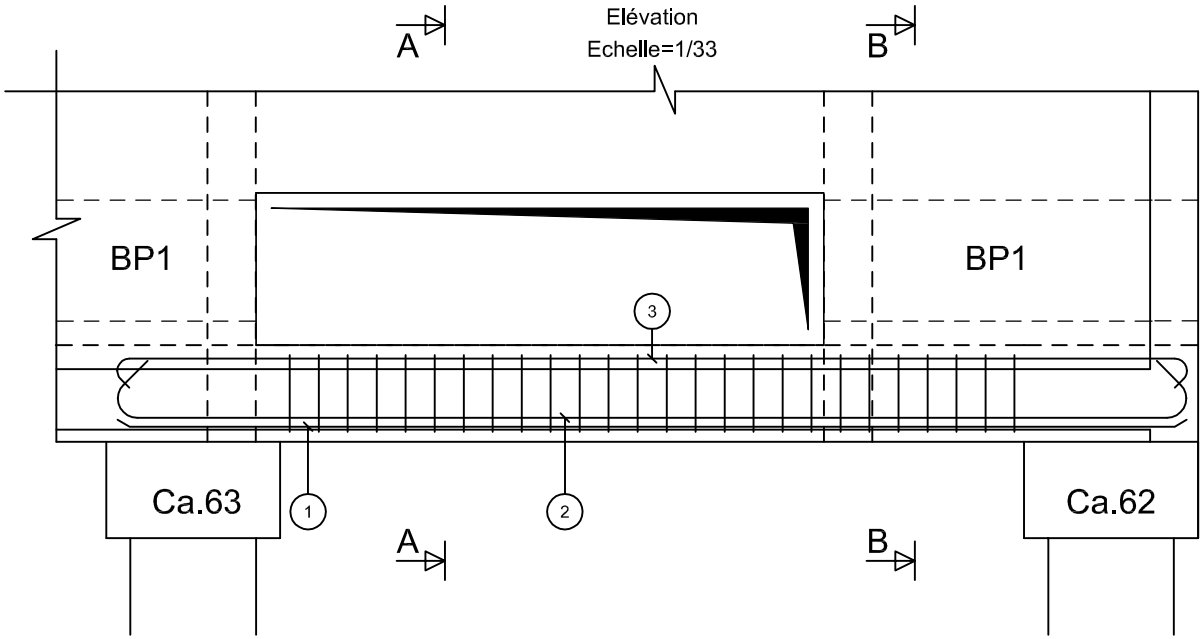


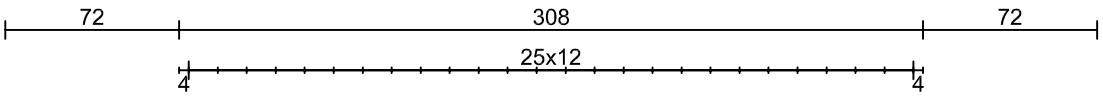
Structuriste

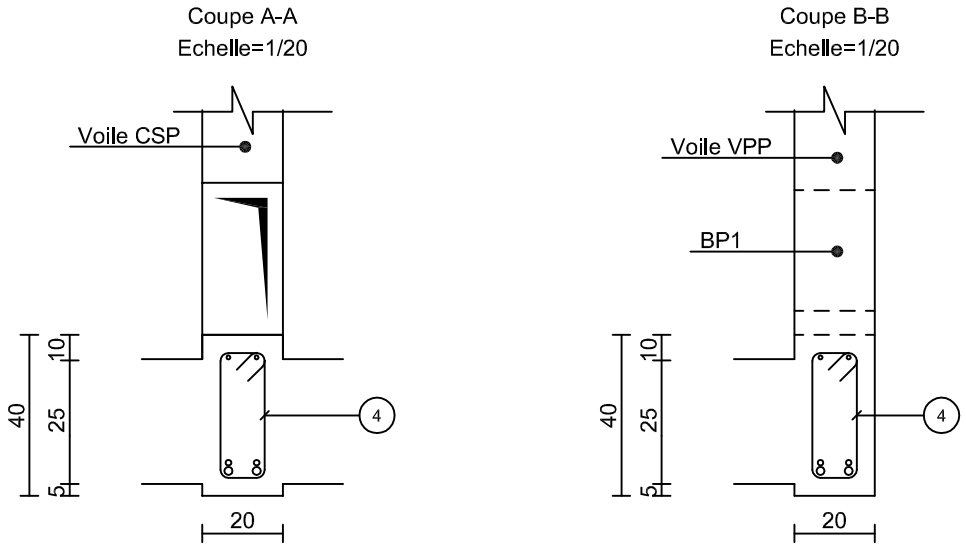
Saint Denis - ZA Les Tartres	Lg	Béton=0.14 m3 Acier=49.5 kg d=364.7 kg/m3 Fi=12.3 mm Cof=1.5 m²		1 1

Section : 20 x 40ht

fck= 25 MPa fyk= 500 MPa Classe de ductilité A | Classe d'exposition: XC1





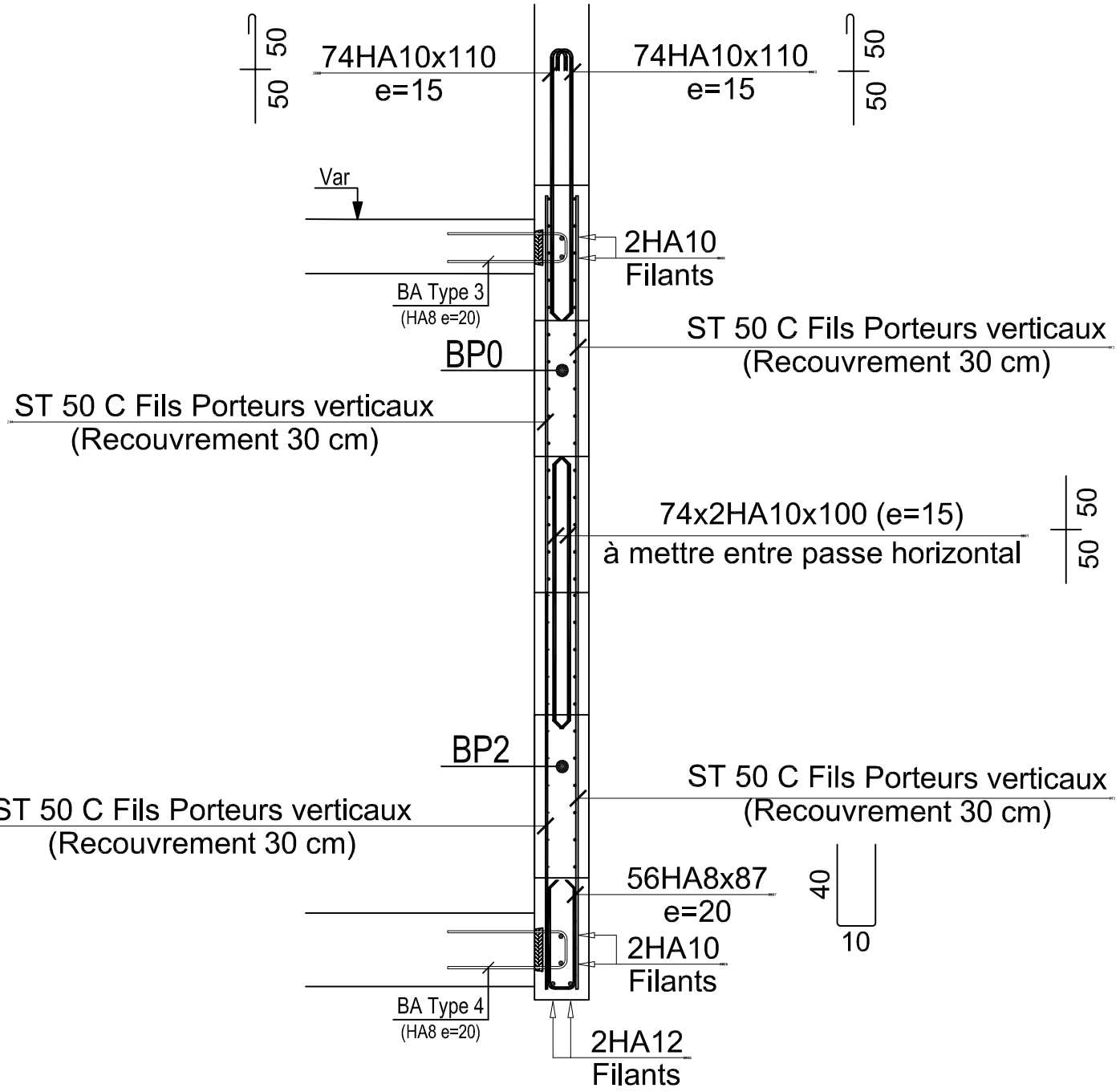


	Barre	Lg	Forme
1	2HA20	444	444
2	2HA14	492	23 23 135° 16 16 135° 444
3	2HA10	466	10 11 135° 10 10 135° 444
4	26HA8	97	32 12

Barre	Lg/Poids
HA8	25.2/9.9
HA10	9.3/5.8
HA14	9.8/11.9
HA20	8.9/21.9

Armatures VPP-1

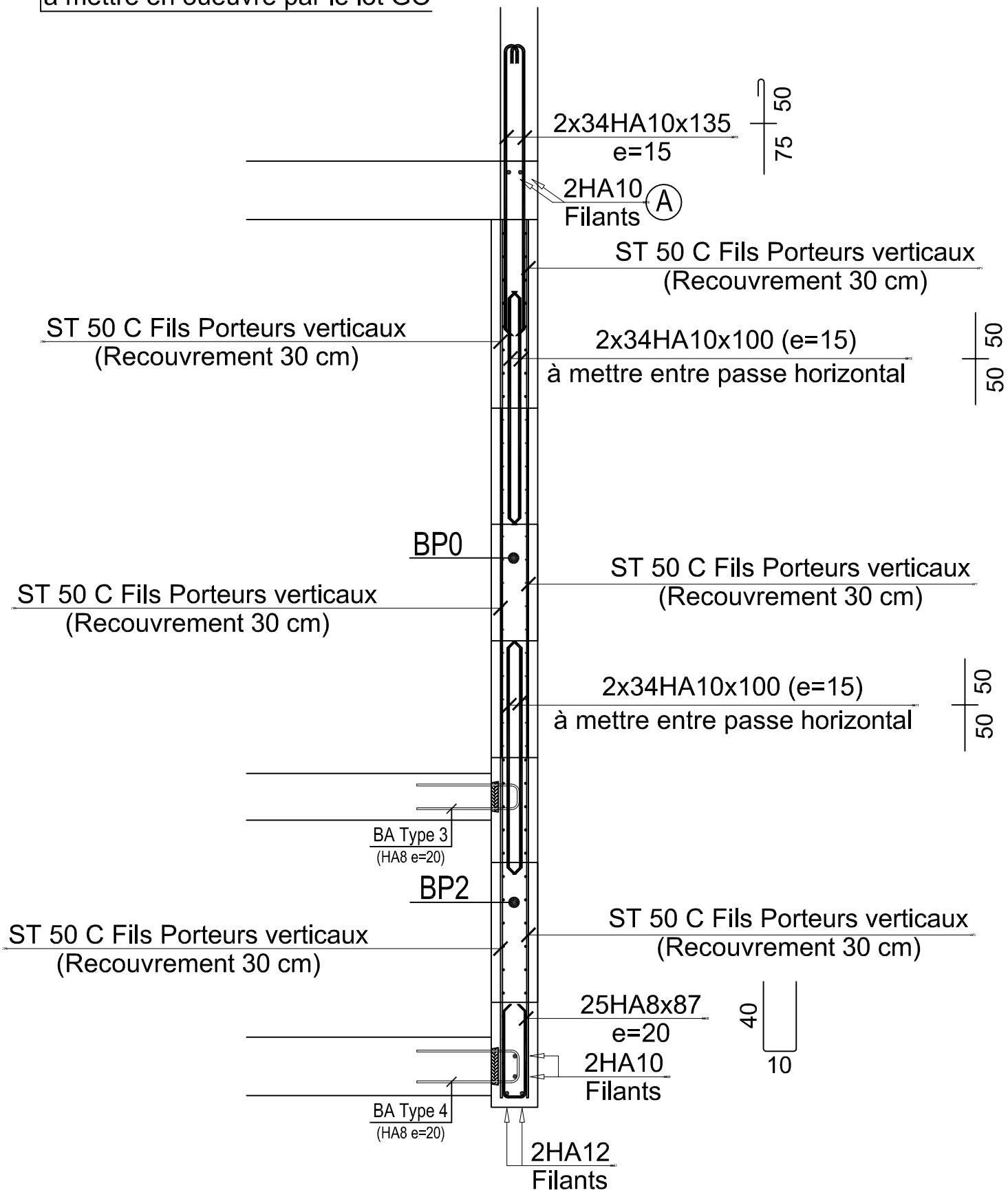
Total linéaire sans recouvrement =11.045 ml



Armatures VPP-2

Total linéaire sans recouvrement =4.98 ml

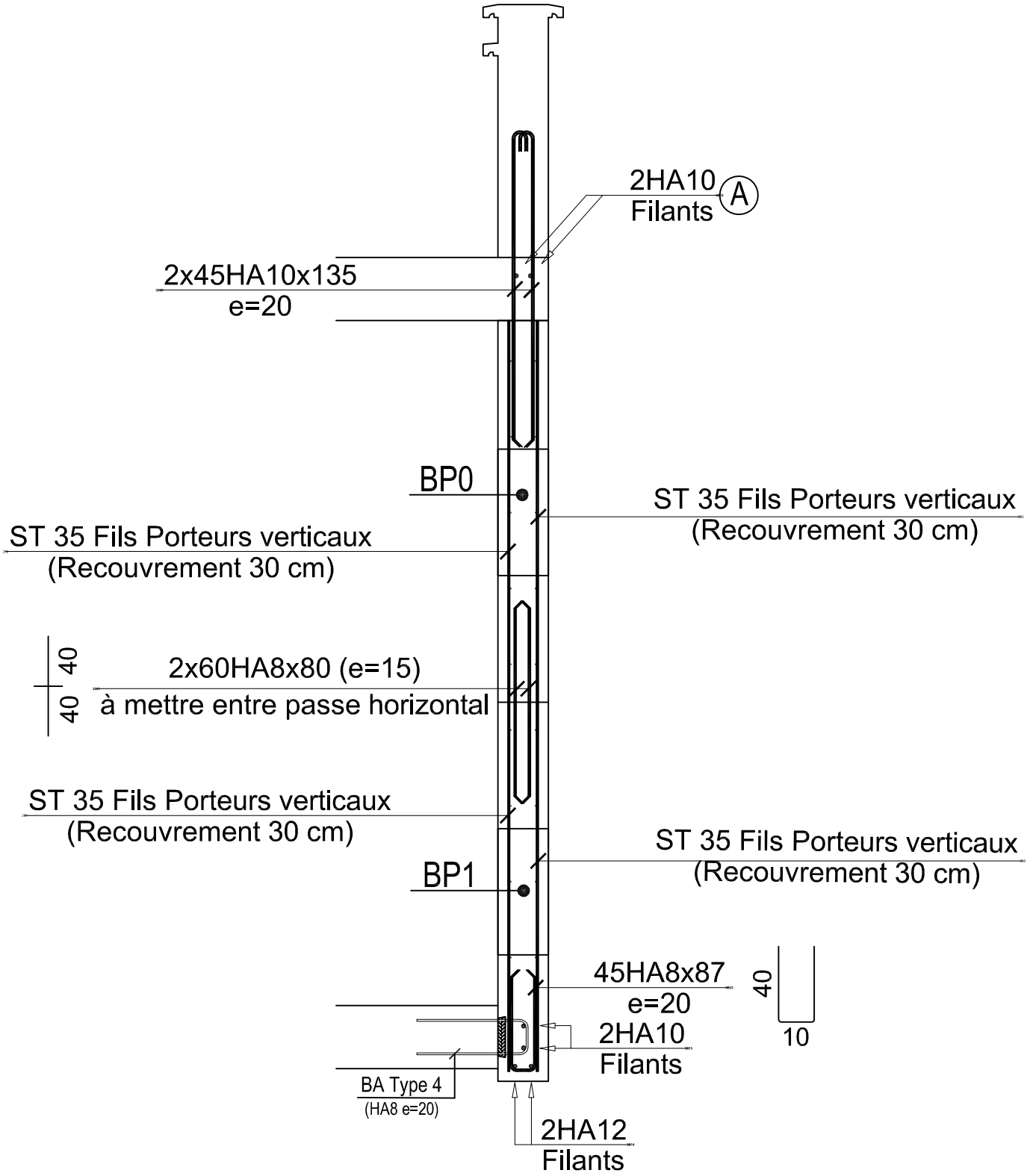
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-3

Total linéaire sans recouvrement =9.00 ml

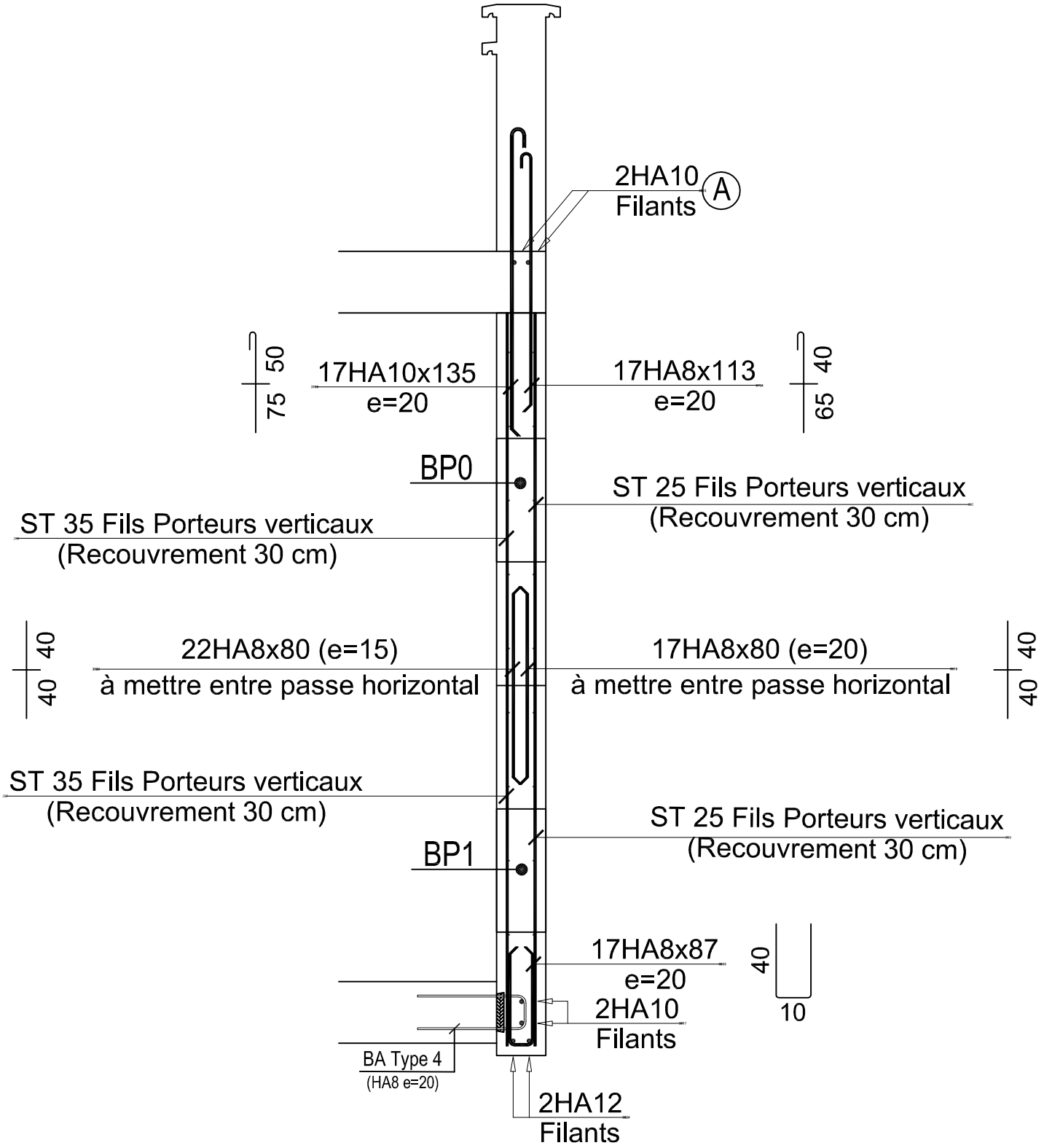
(A) à mettre en oeuvre par le lot GO



Armatures VPP-3Bis

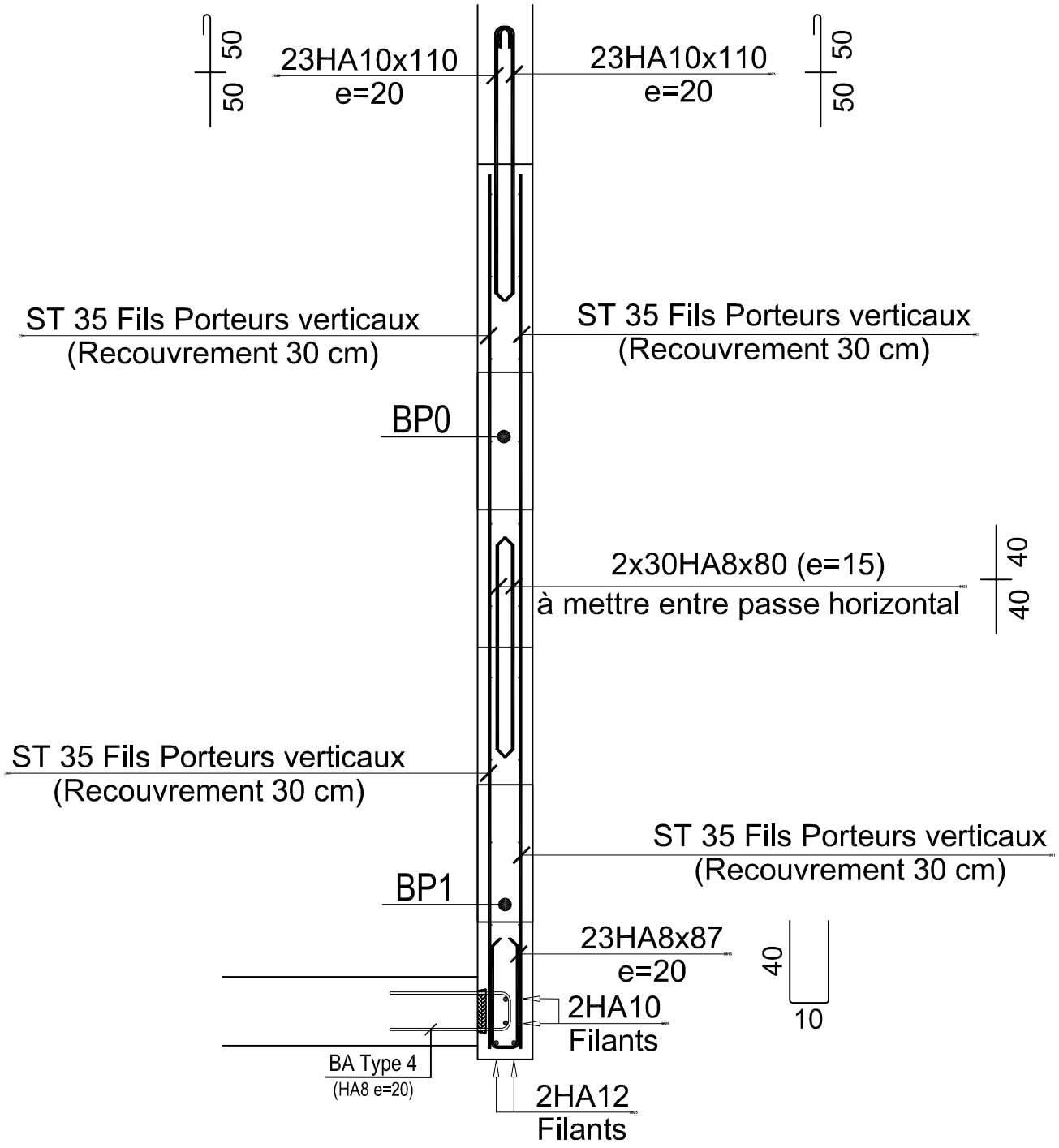
Total linéaire sans recouvrement =3.225 ml

(A) à mettre en oeuvre par le lot GO



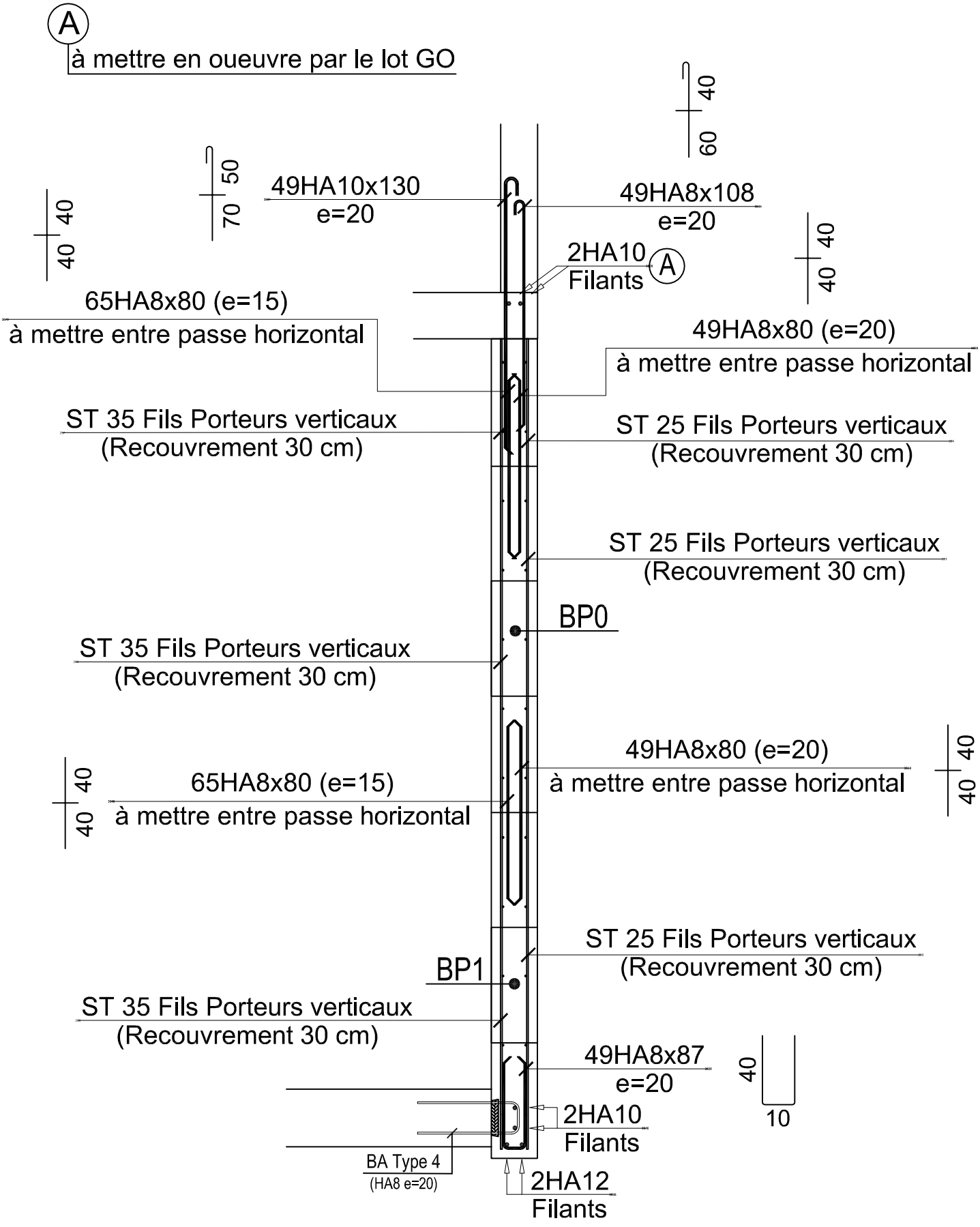
Armatures VPP-4

Total linéaire sans recouvrement =4.49 ml



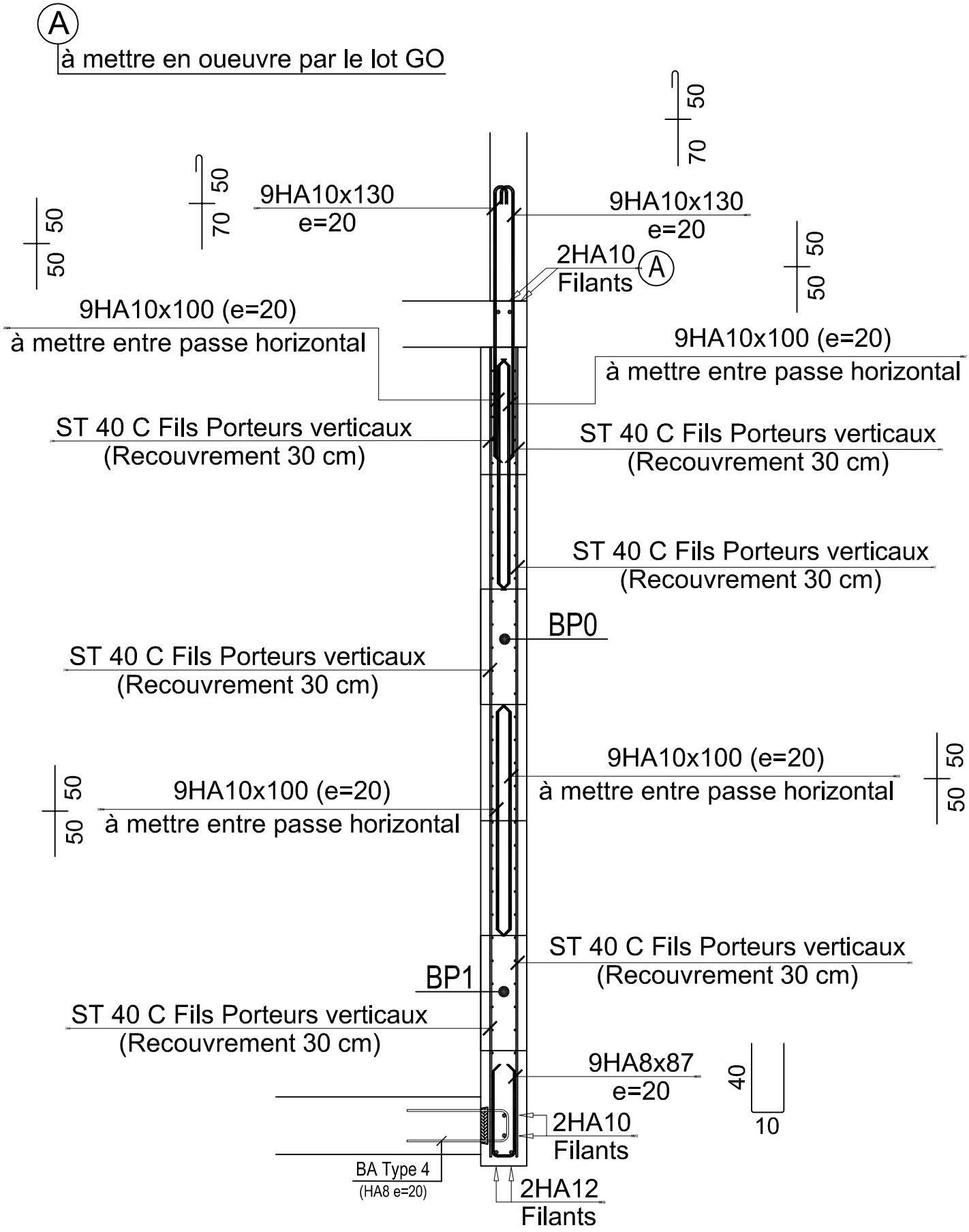
Armatures VPP-5

Total linéaire sans recouvrement =9.725 ml



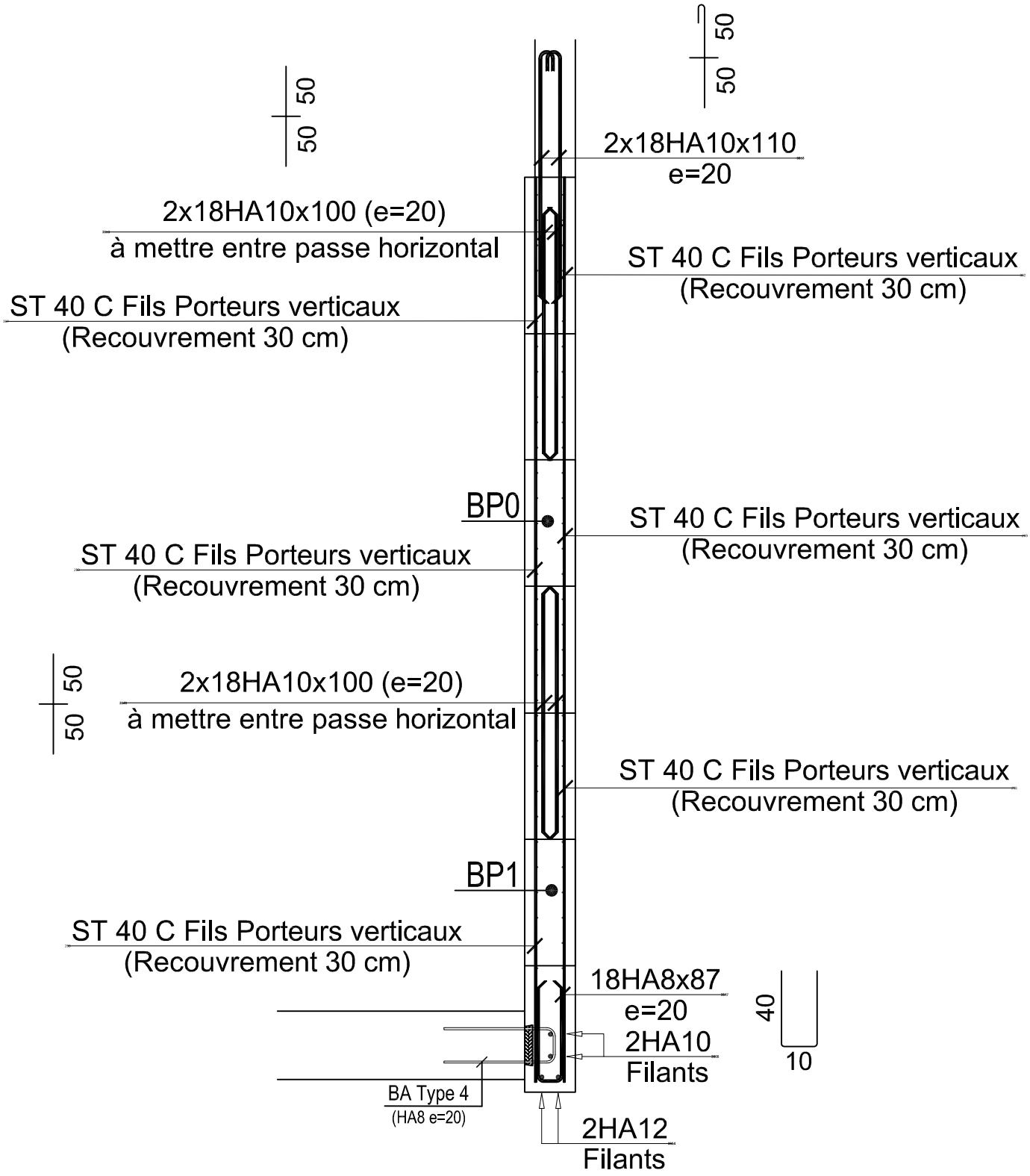
Armatures VPP-5Bis

Total linéaire sans recouvrement =1.78 ml



Armatures VPP-6Bis

Total linéaire sans recouvrement =3.445 ml

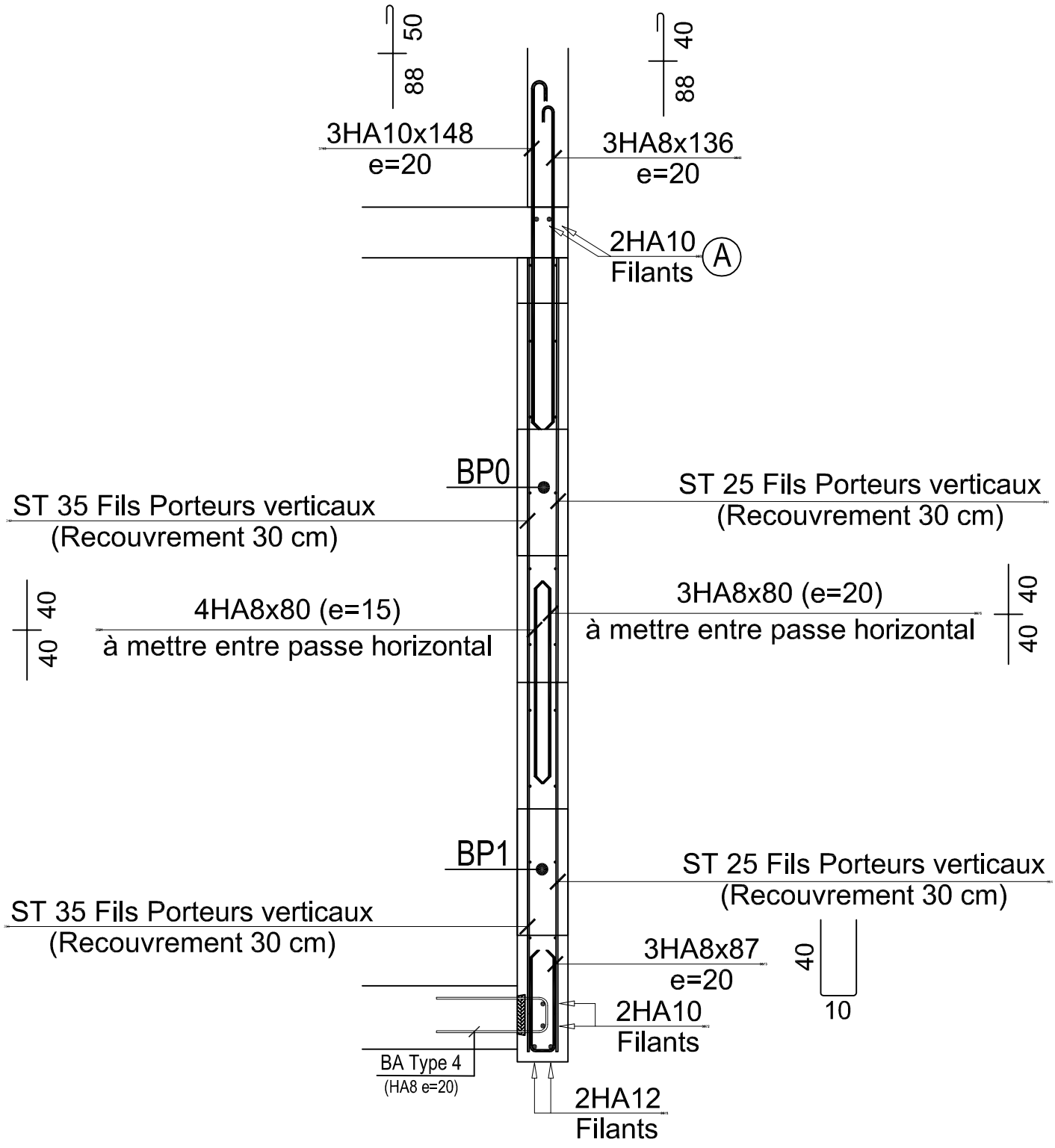


Armatures VPP-7

Total linéaire sans recouvrement =0.60 ml

(A)

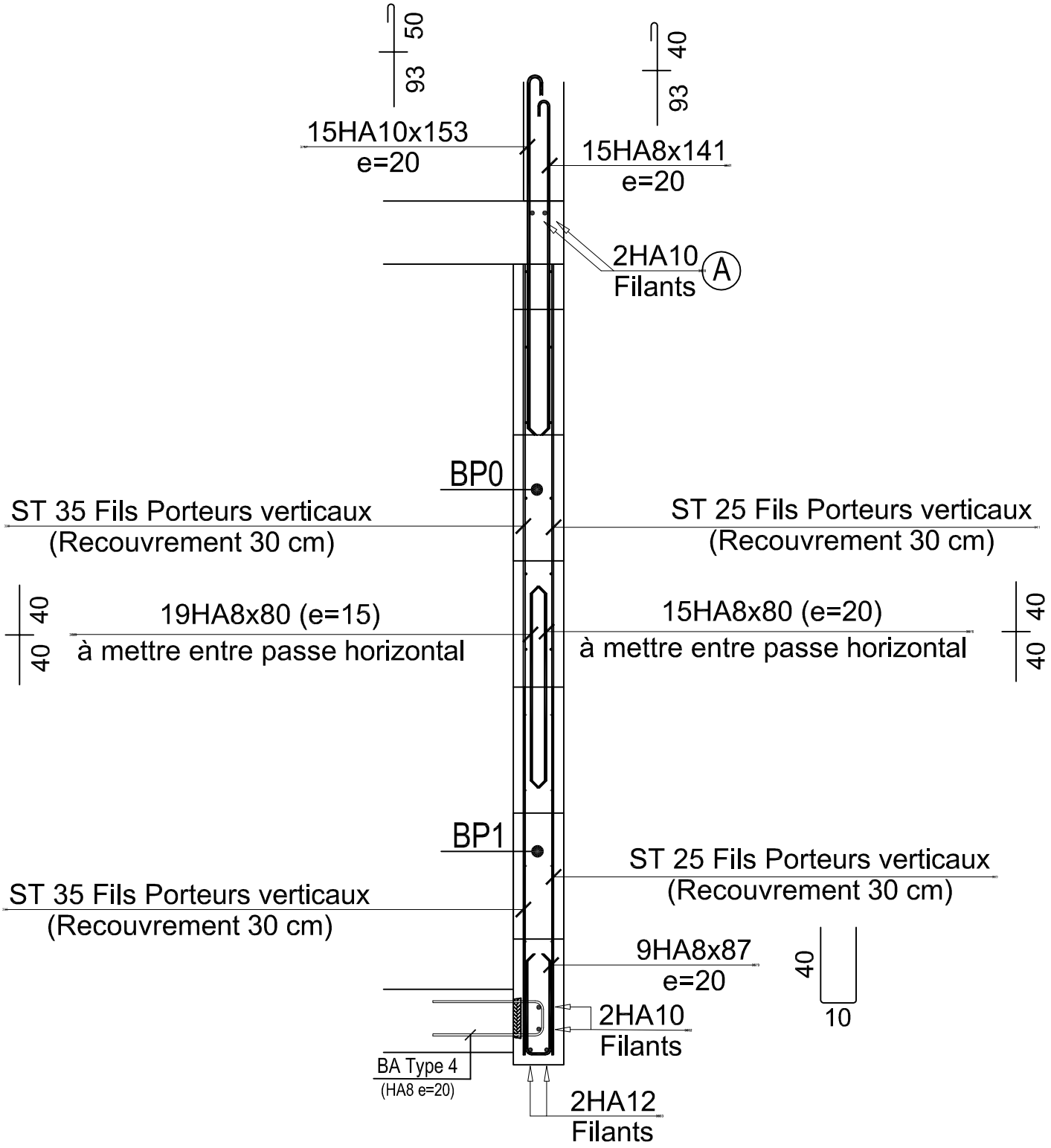
à mettre en oueuvre par le lot GO



Armatures VPP-8

Total linéaire sans recouvrement =2.835 ml

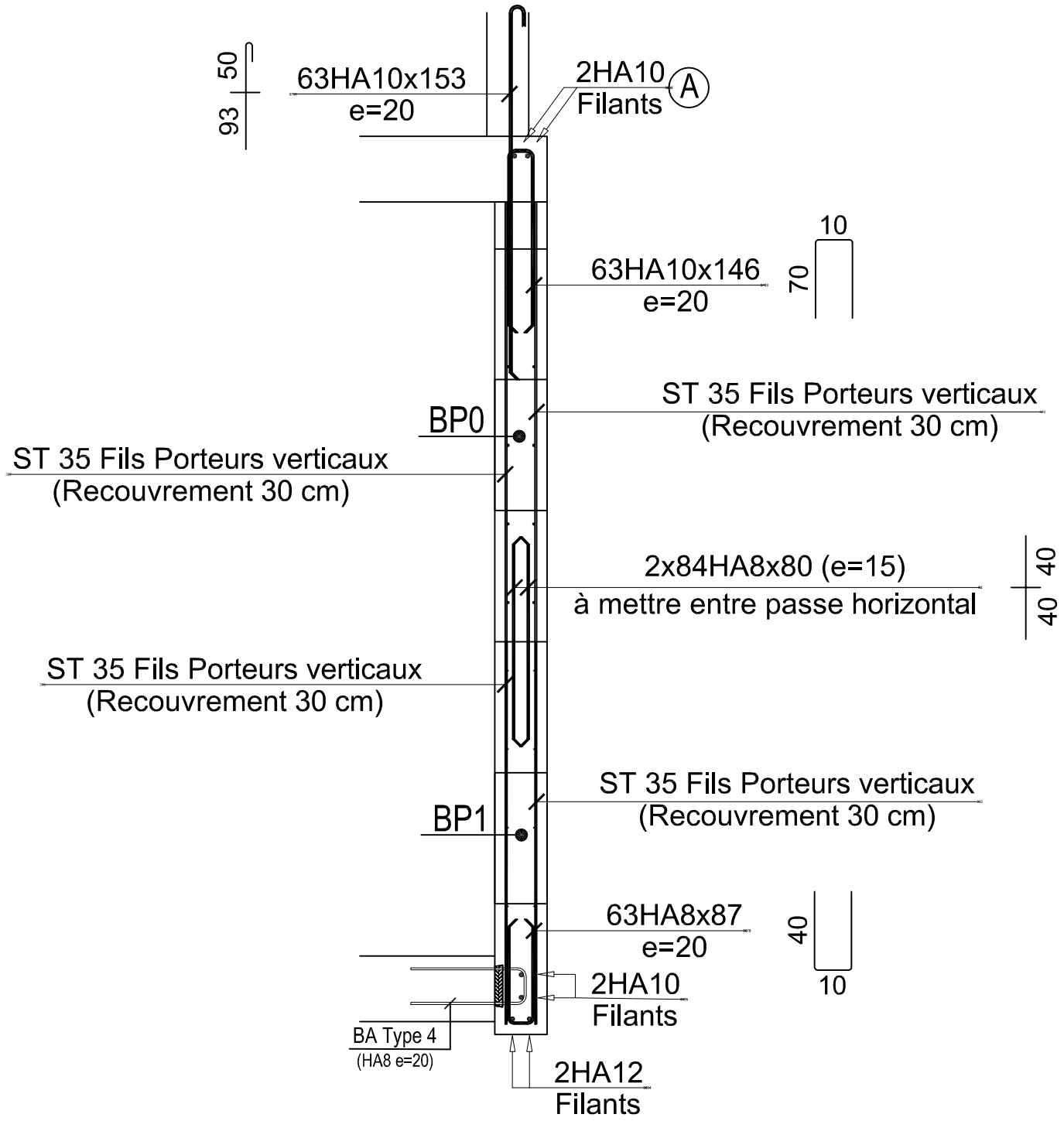
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-8Bis

Total linéaire sans recouvrement =12.52 ml

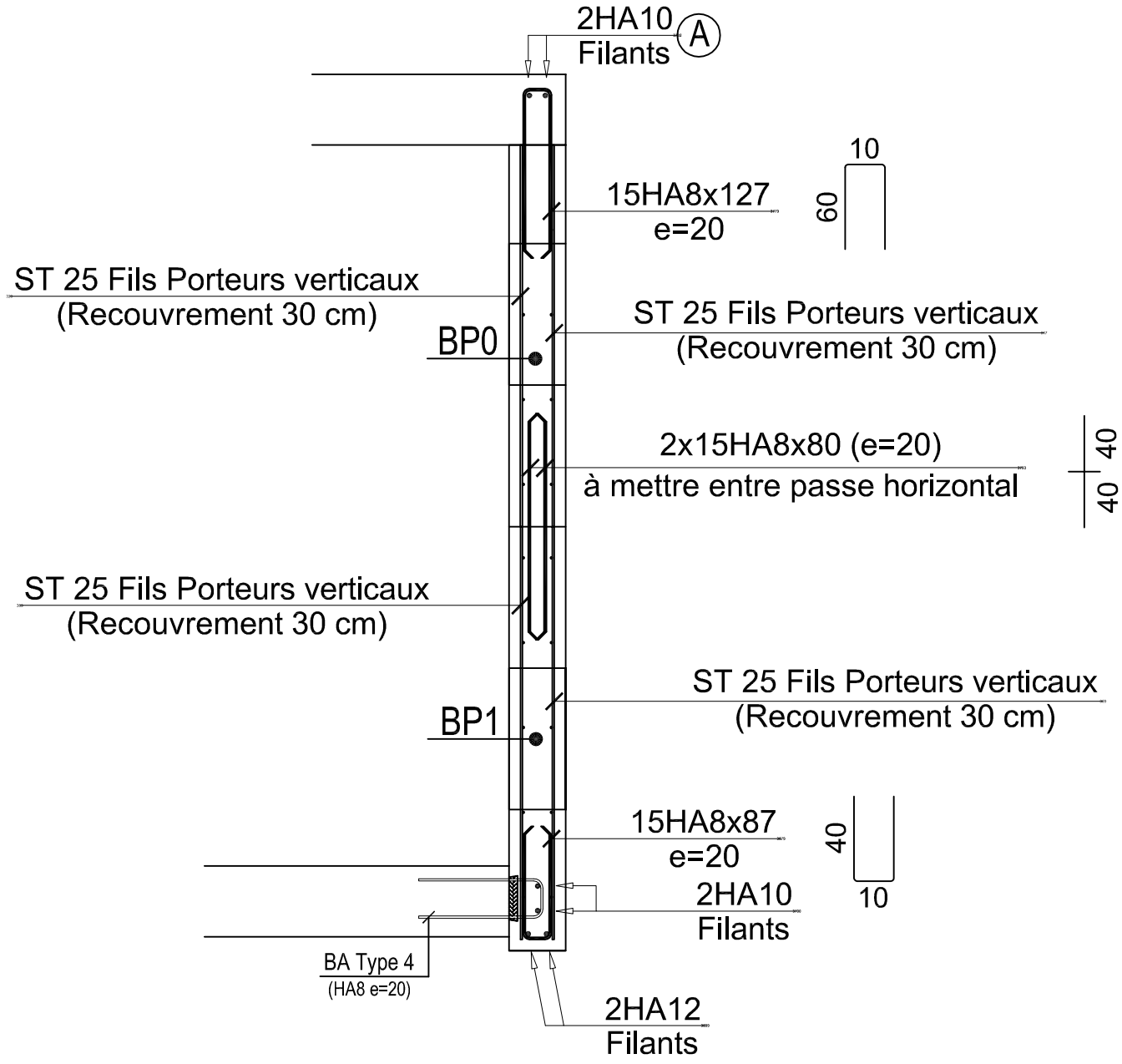
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-9/VPP-9Bis

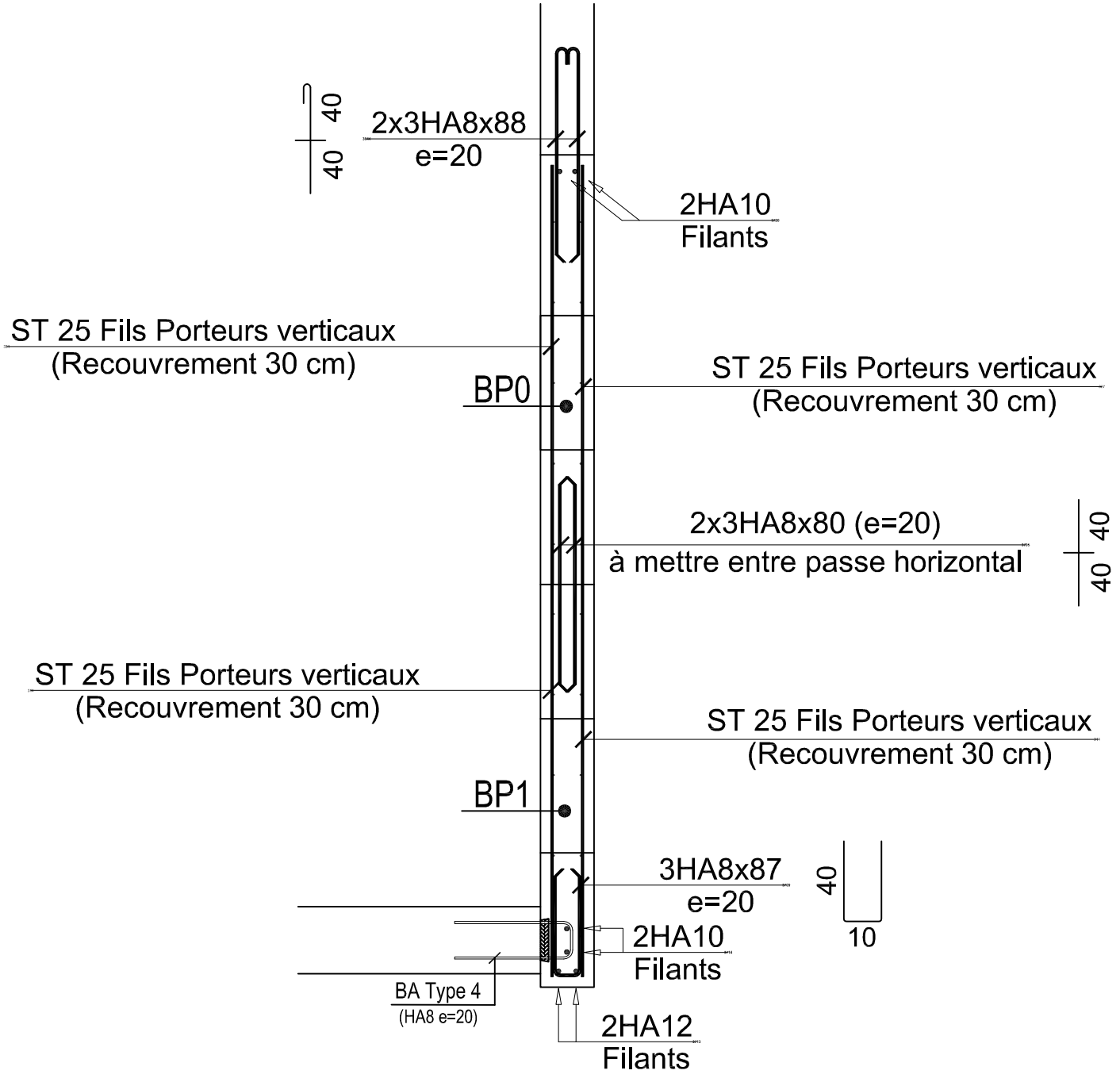
Total linéaire sans recouvrement =2.995 ml

(A)
à mettre en oueuvre par le lot GO



Armatures VPP-10

Total linéaire sans recouvrement =0.53 ml

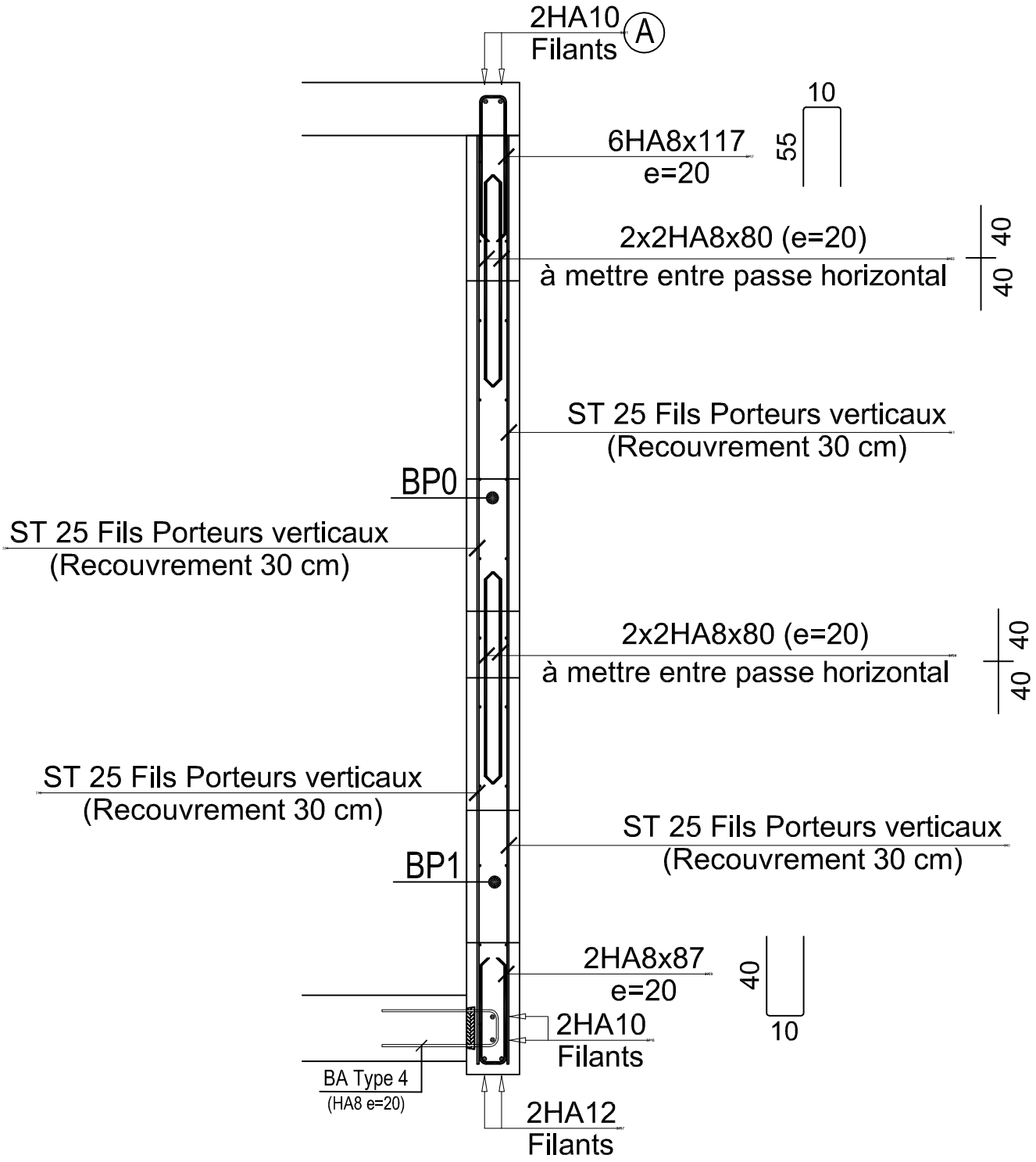


Armatures VPP-11

Total linéaire sans recouvrement =0.35 ml

Ⓐ

à mettre en oueuvre par le lot GO

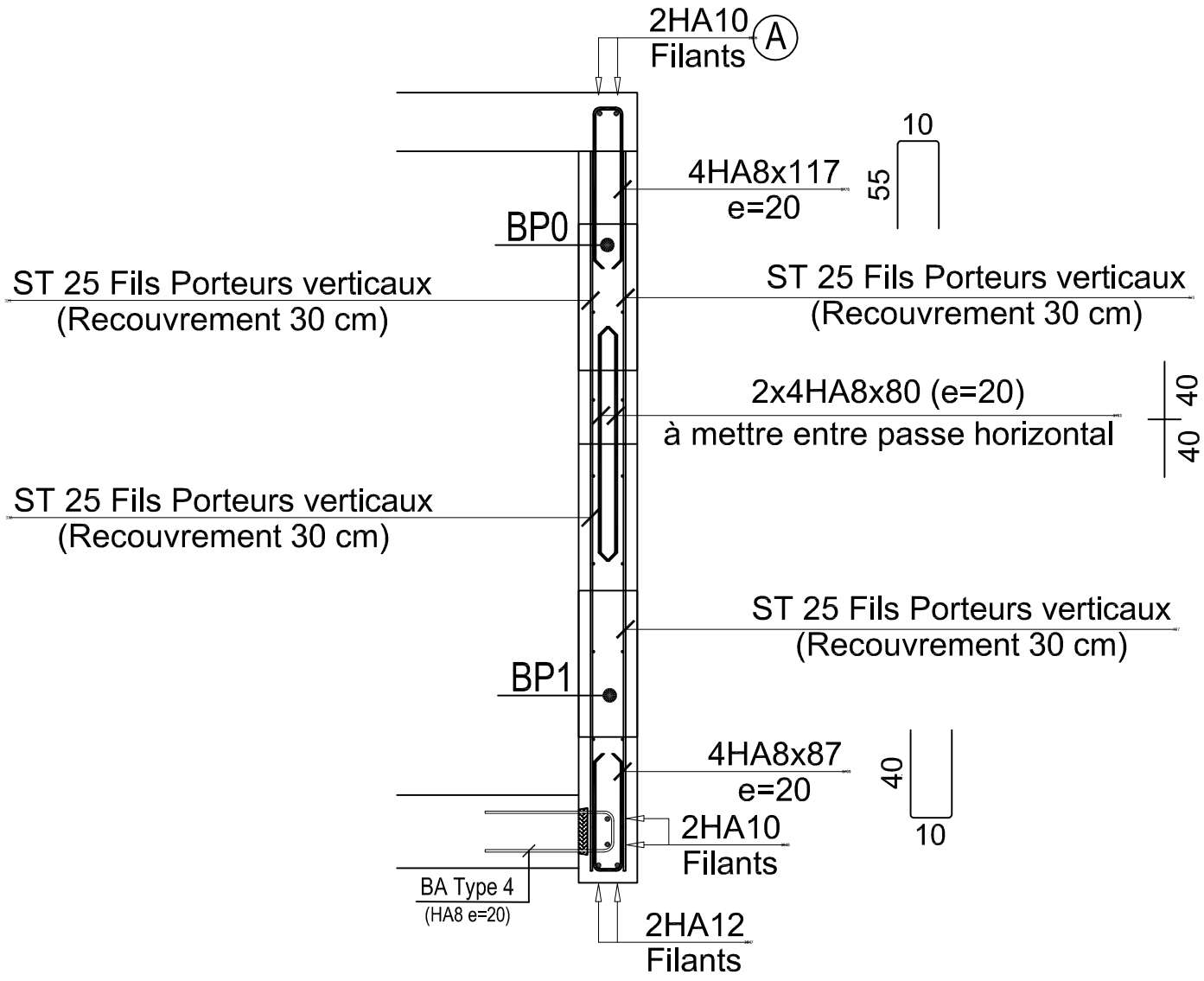


Armatures VPP-11Bis

Total linéaire sans recouvrement =0.80 ml

(A)

à mettre en oueuvre par le lot GO

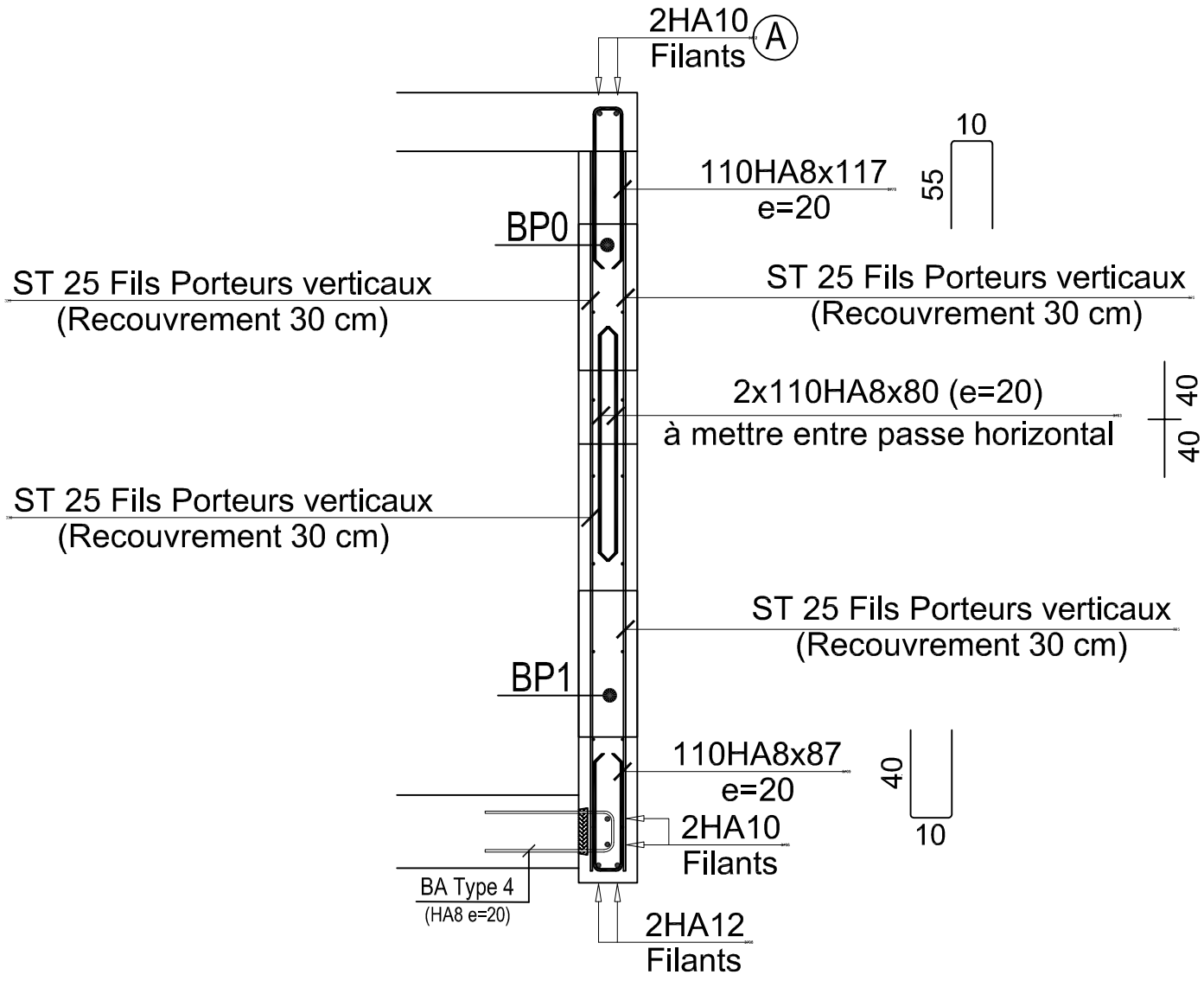


Armatures VPP-12

Total linéaire sans recouvrement =21.93 ml

Ⓐ

à mettre en oueuvre par le lot GO

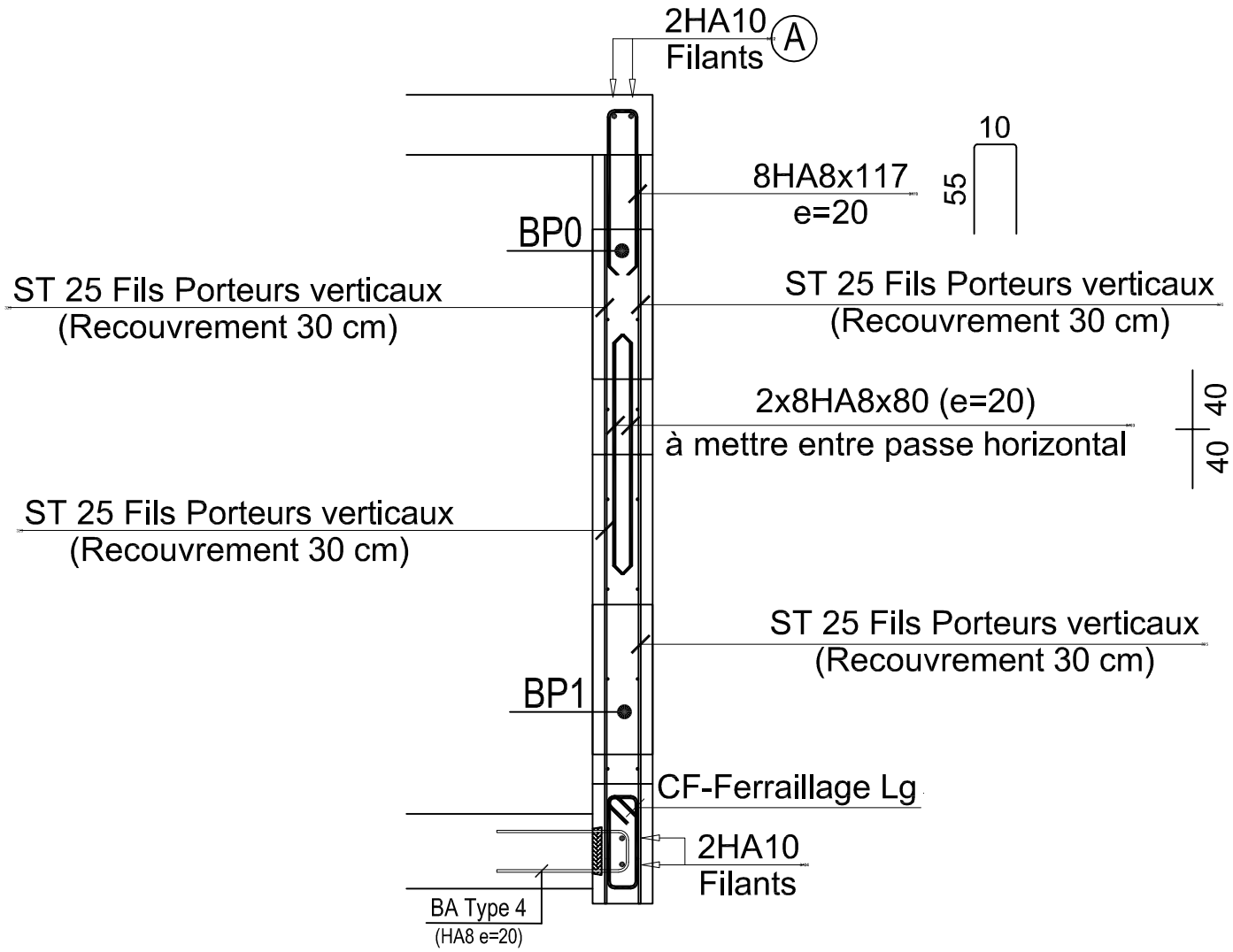


Armatures VPP-12bis

Total linéaire sans recouvrement =1.55 ml

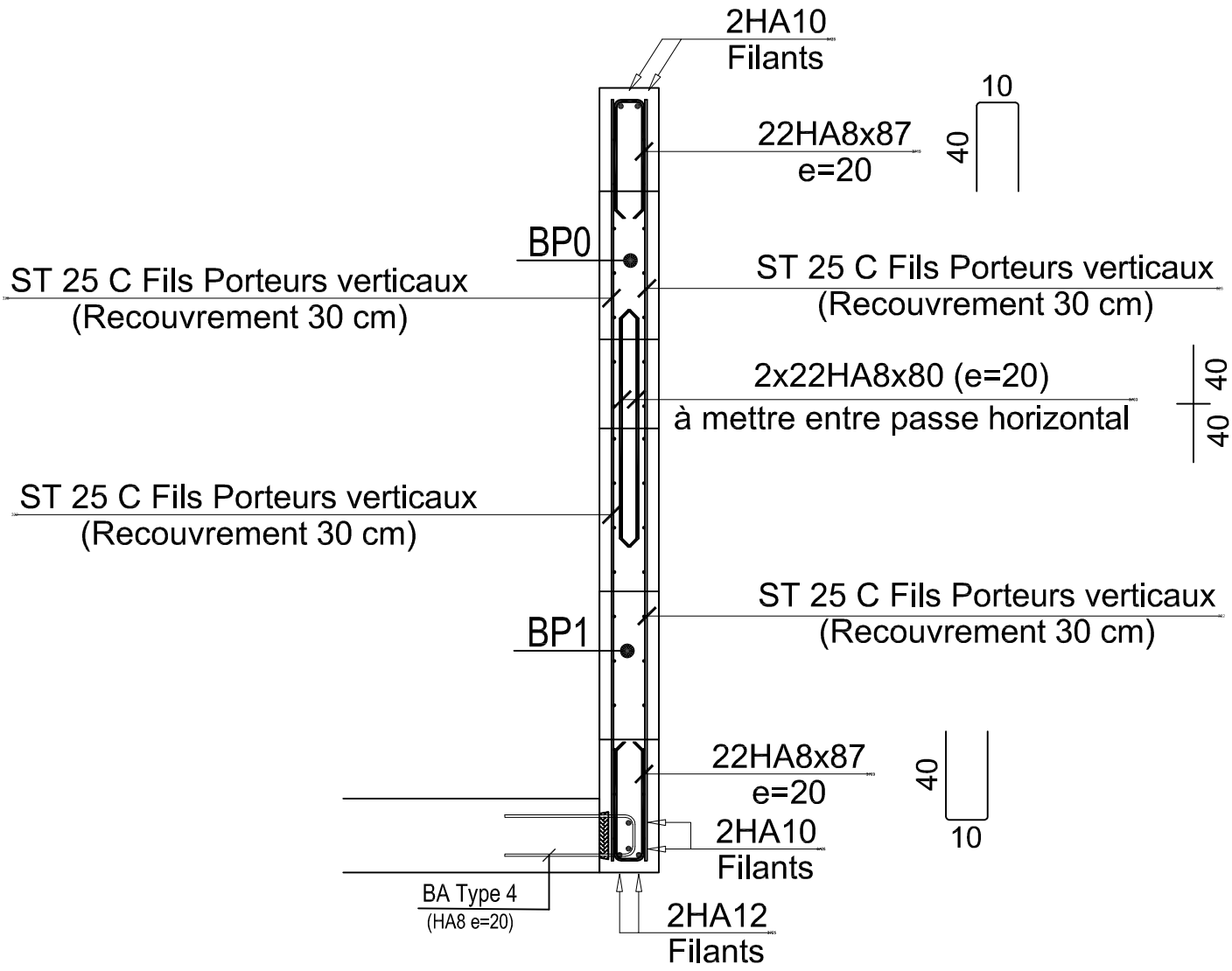
(A)

à mettre en oueuvre par le lot GO



Armatures VPP-13

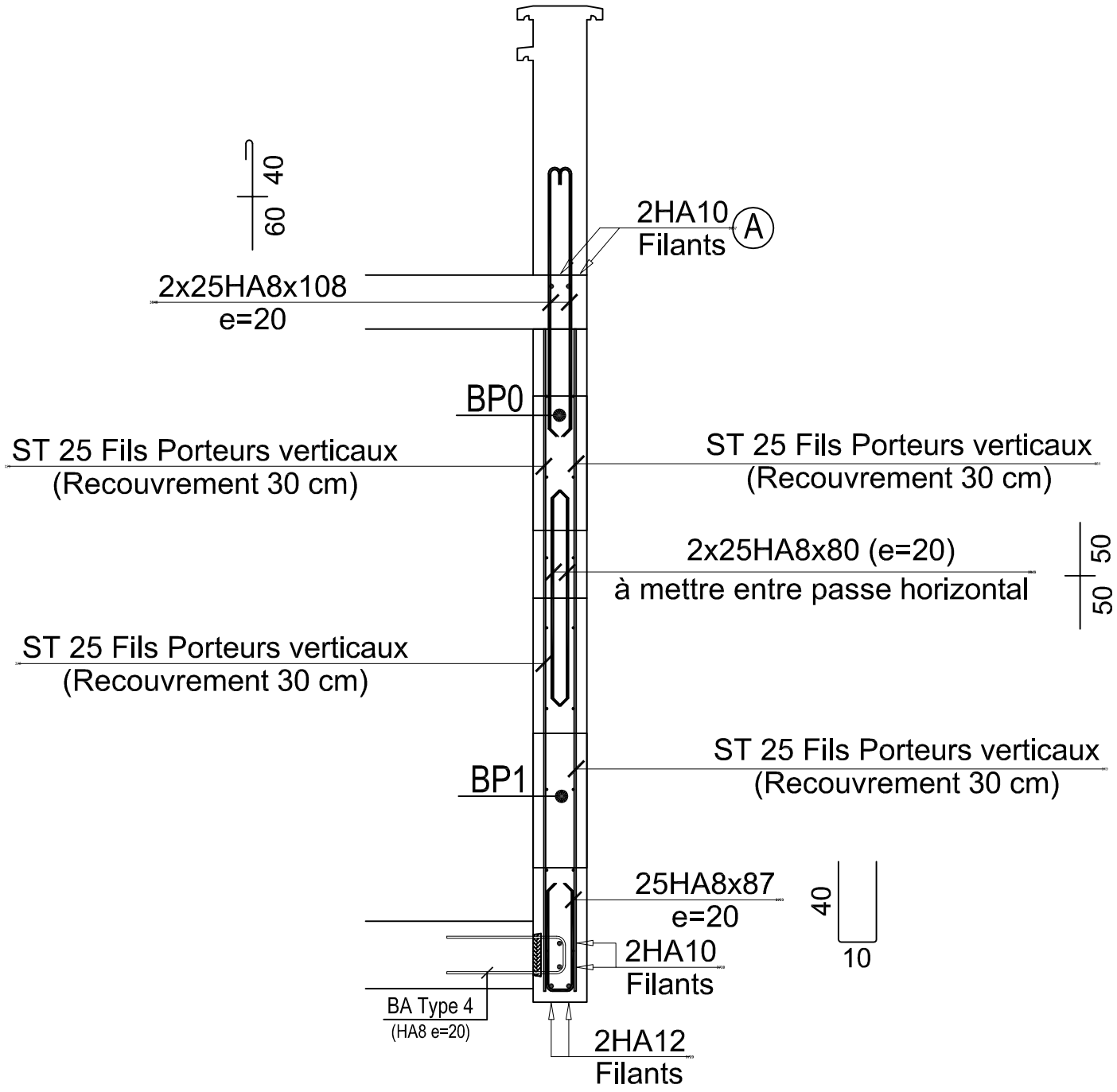
Total linéaire sans recouvrement =4.27 ml



Armatures VPP-13bis

Total linéaire sans recouvrement =5.02 ml

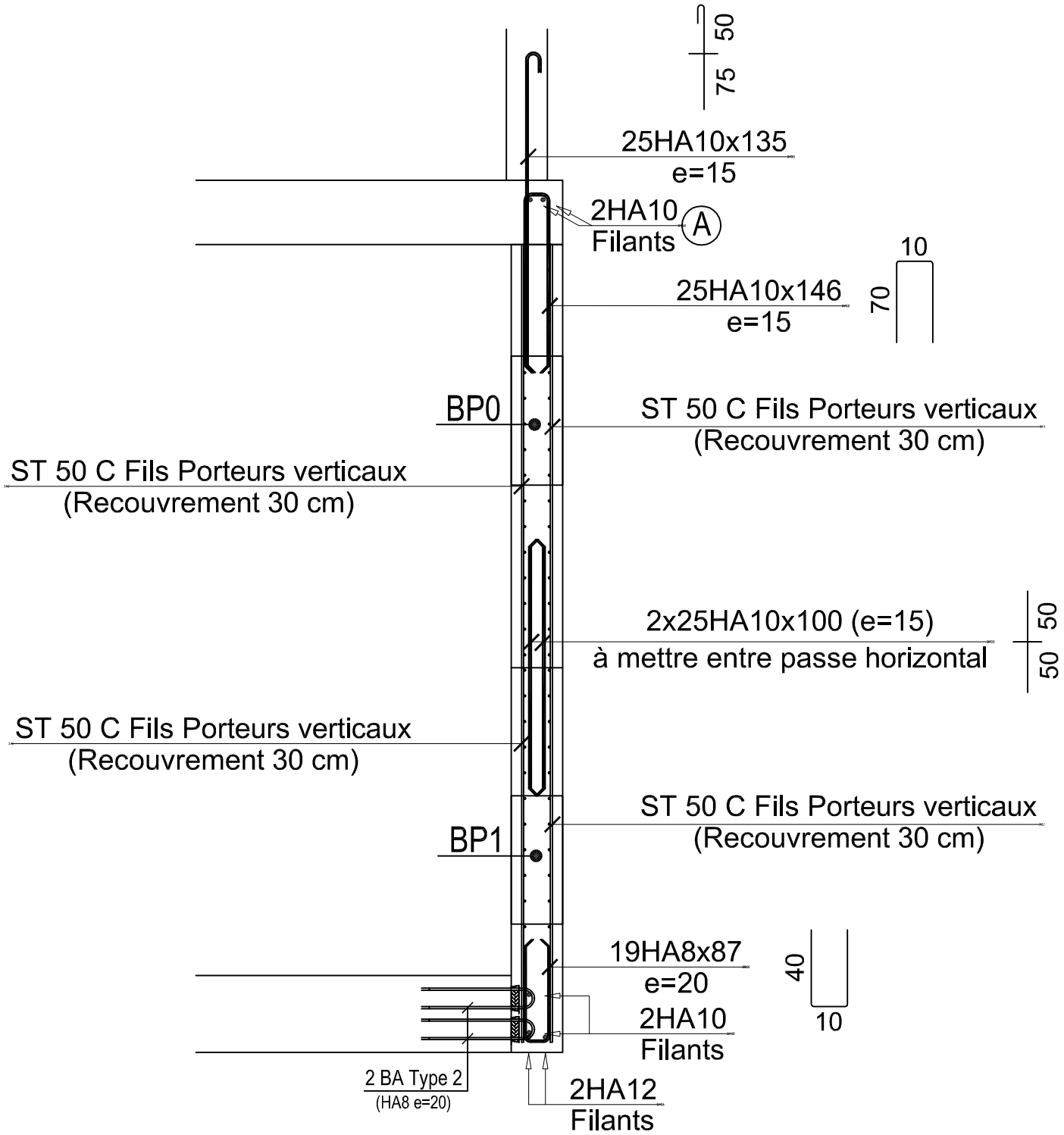
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-14

Total linéaire sans recouvrement =3.675 ml

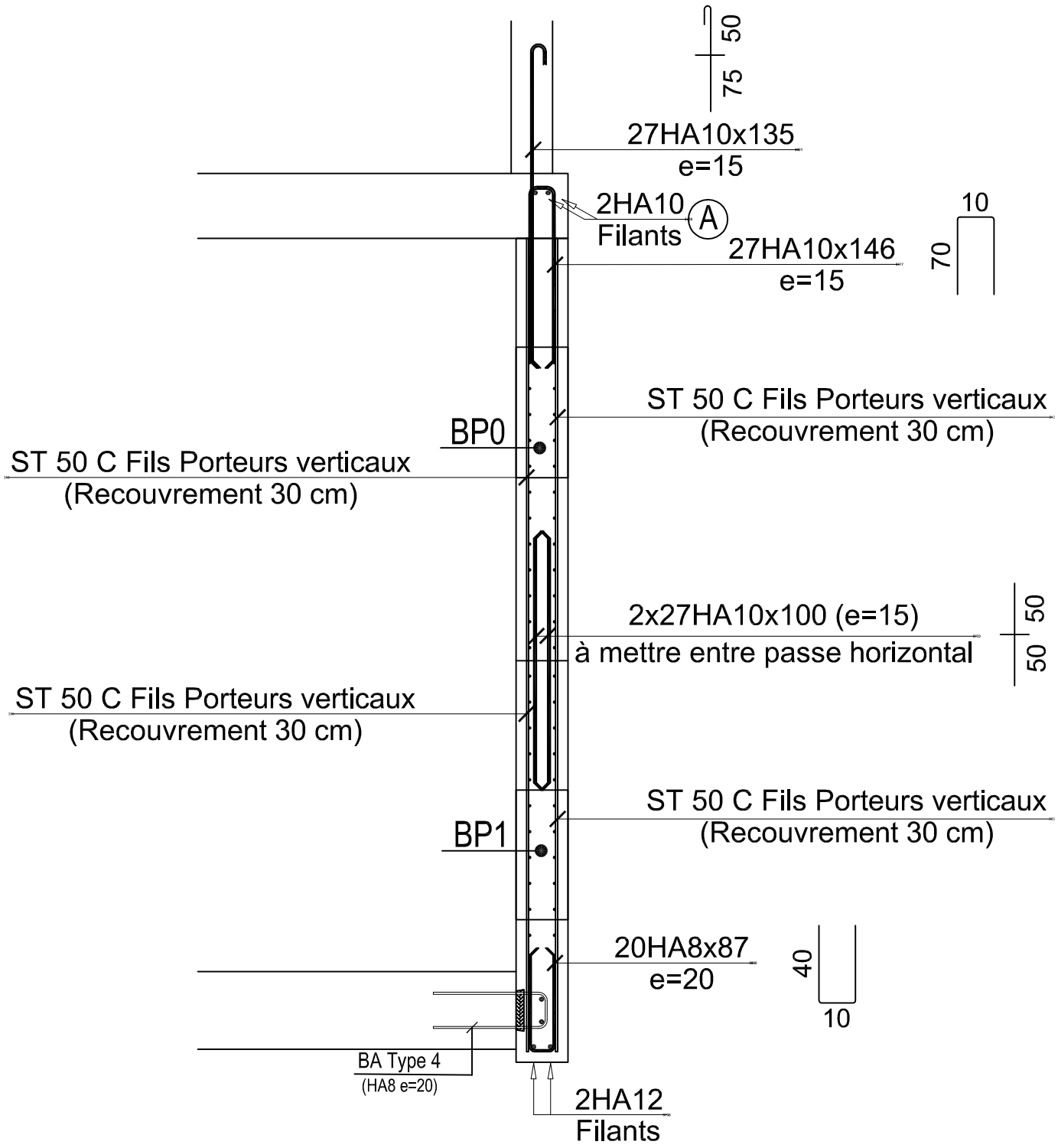
Ⓐ
à mettre en oueuvre par le lot GO



Armatures VPP-14Bis

Total linéaire sans recouvrement =3.995 ml

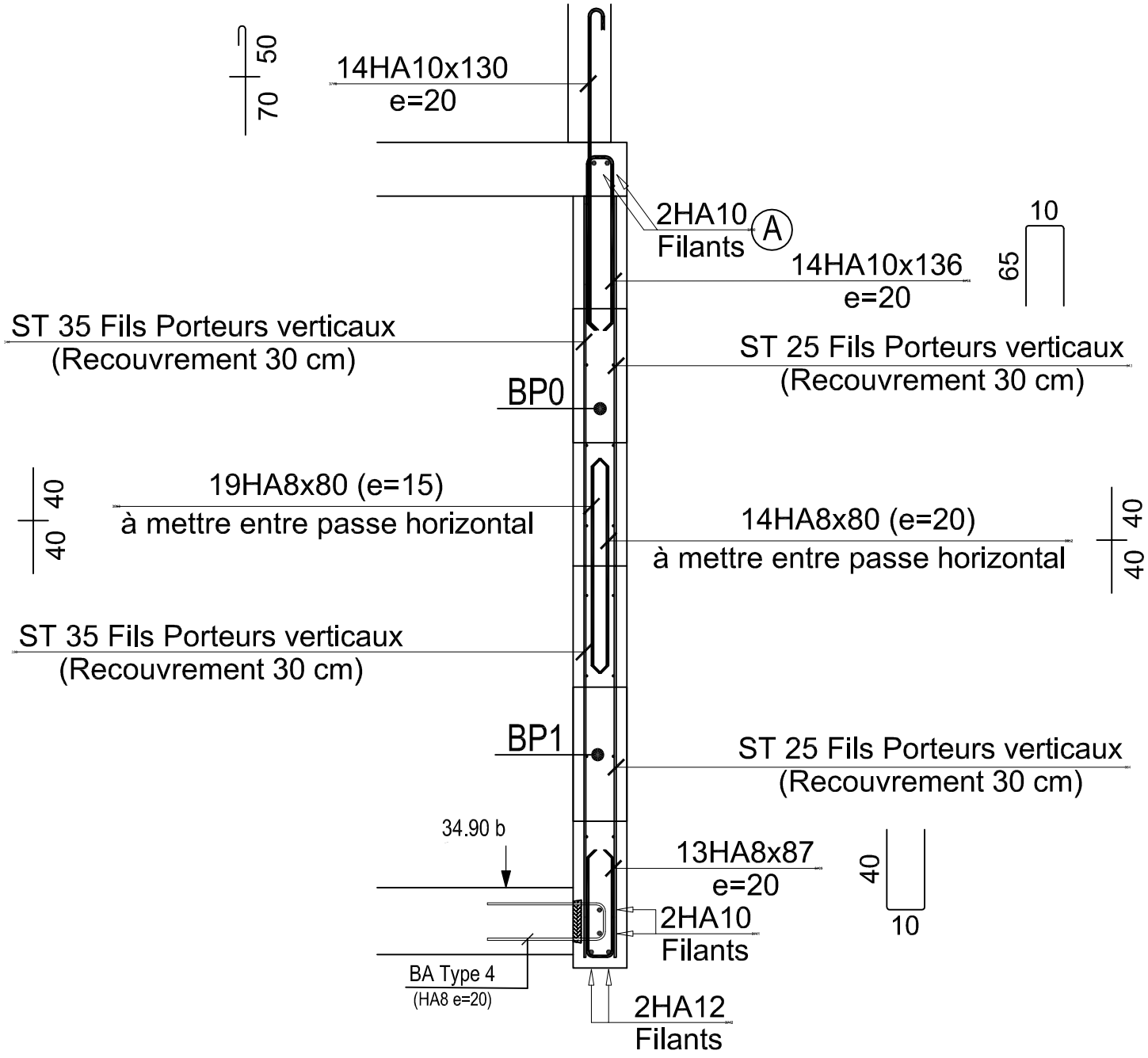
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-15bis

Total linéaire sans recouvrement =2.765 ml

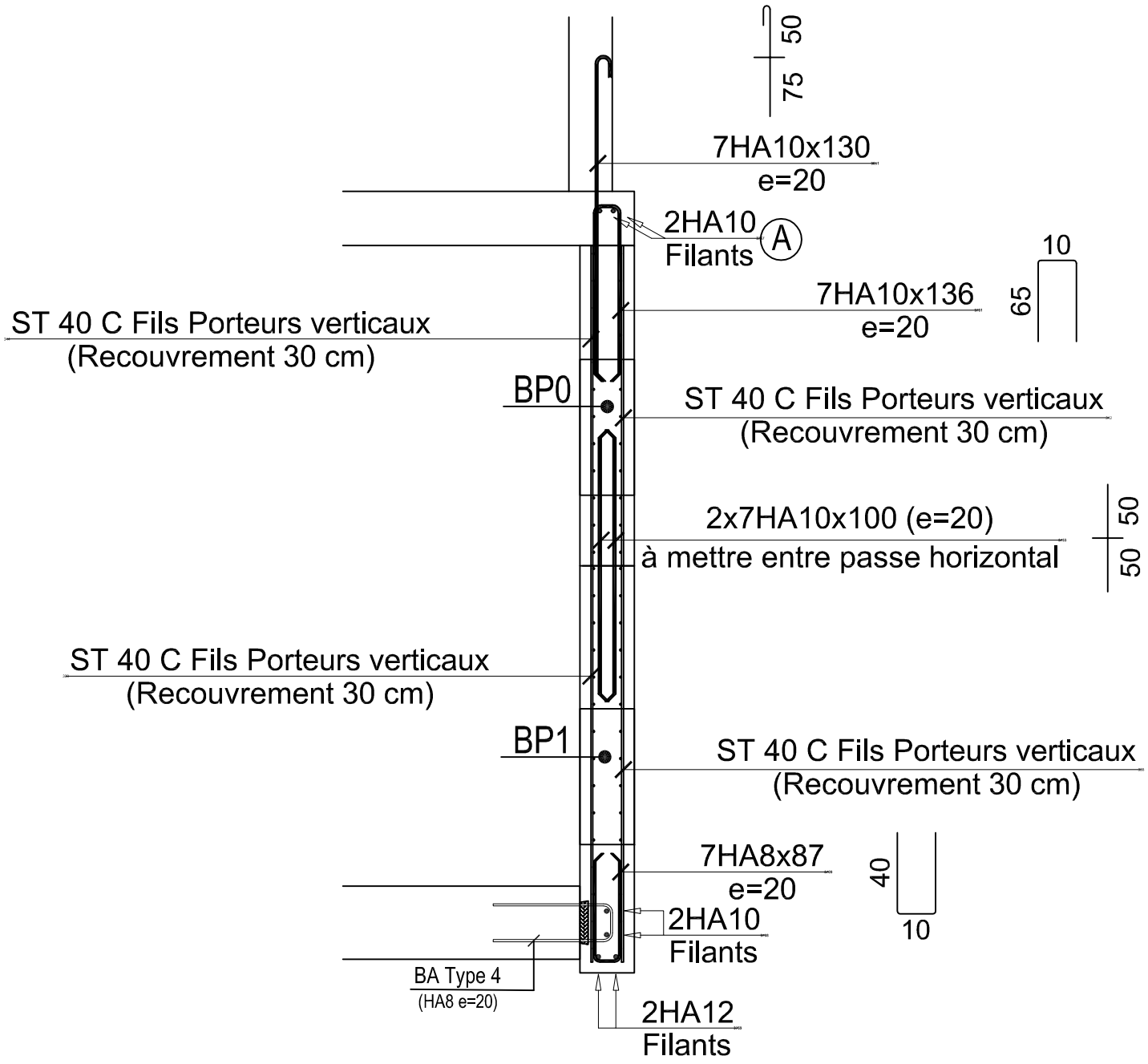
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-15

Total linéaire sans recouvrement =1.24 ml

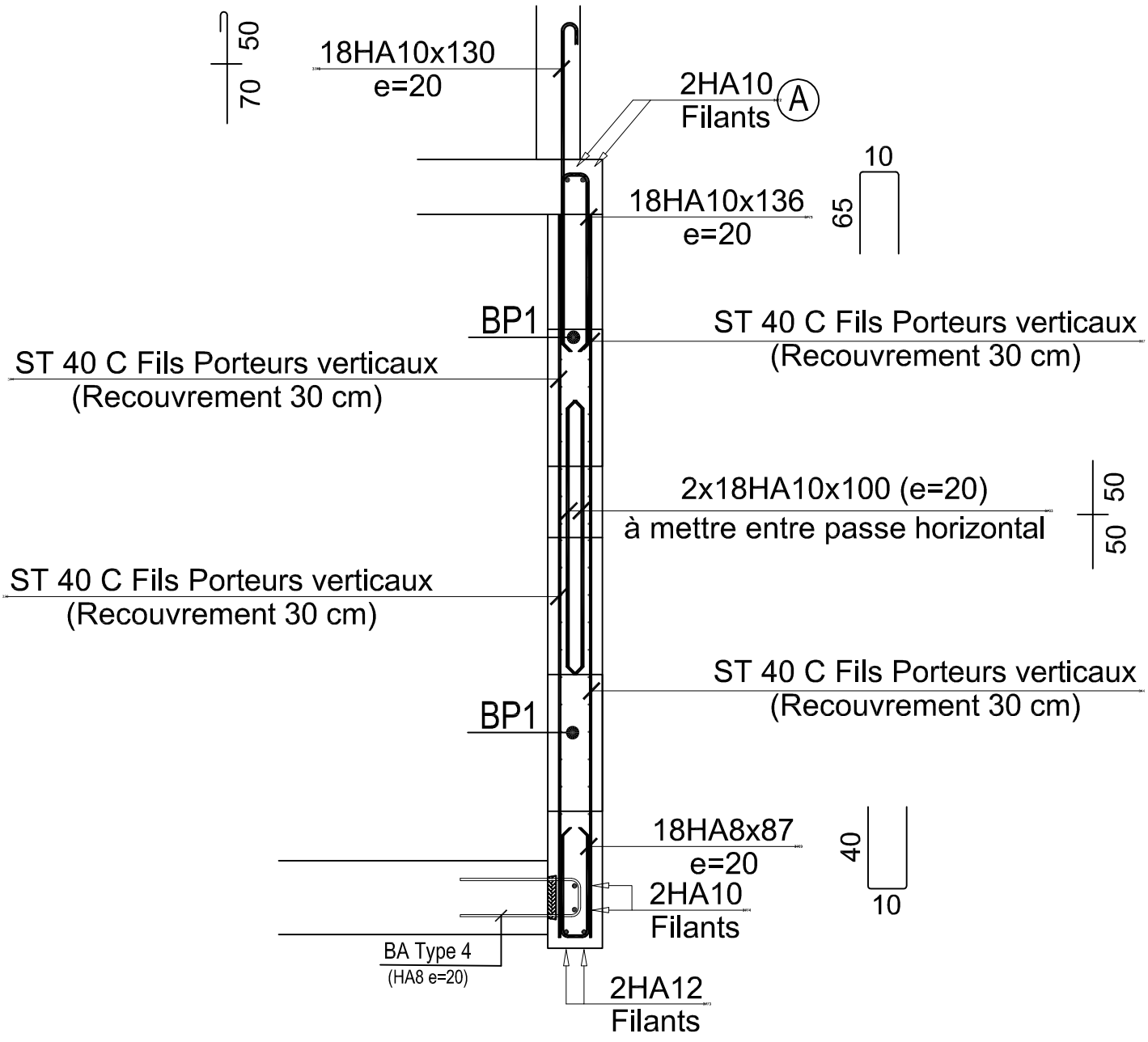
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-16

Total linéaire sans recouvrement =3.535 ml

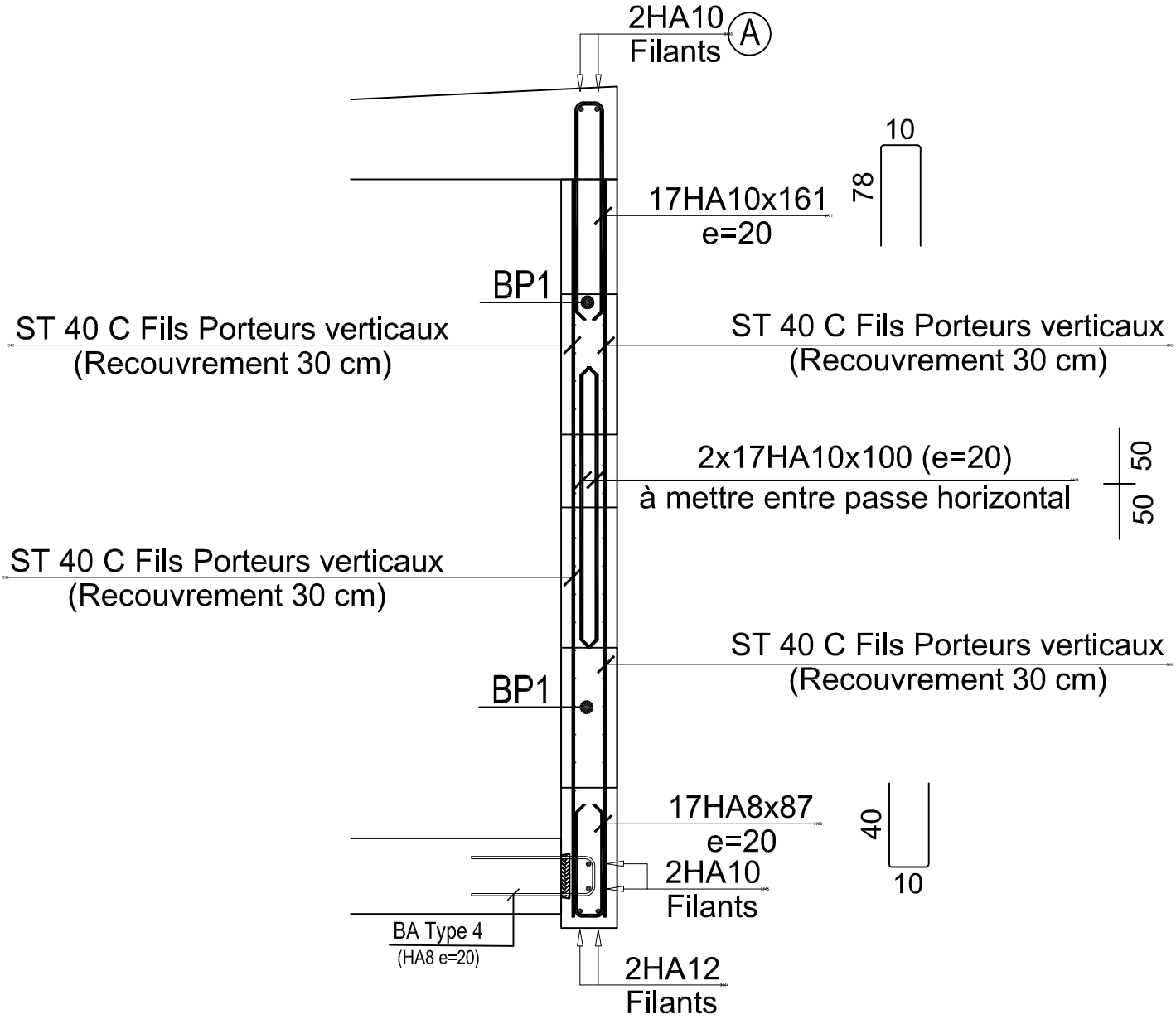
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-16bis

Total linéaire sans recouvrement =3.285 ml

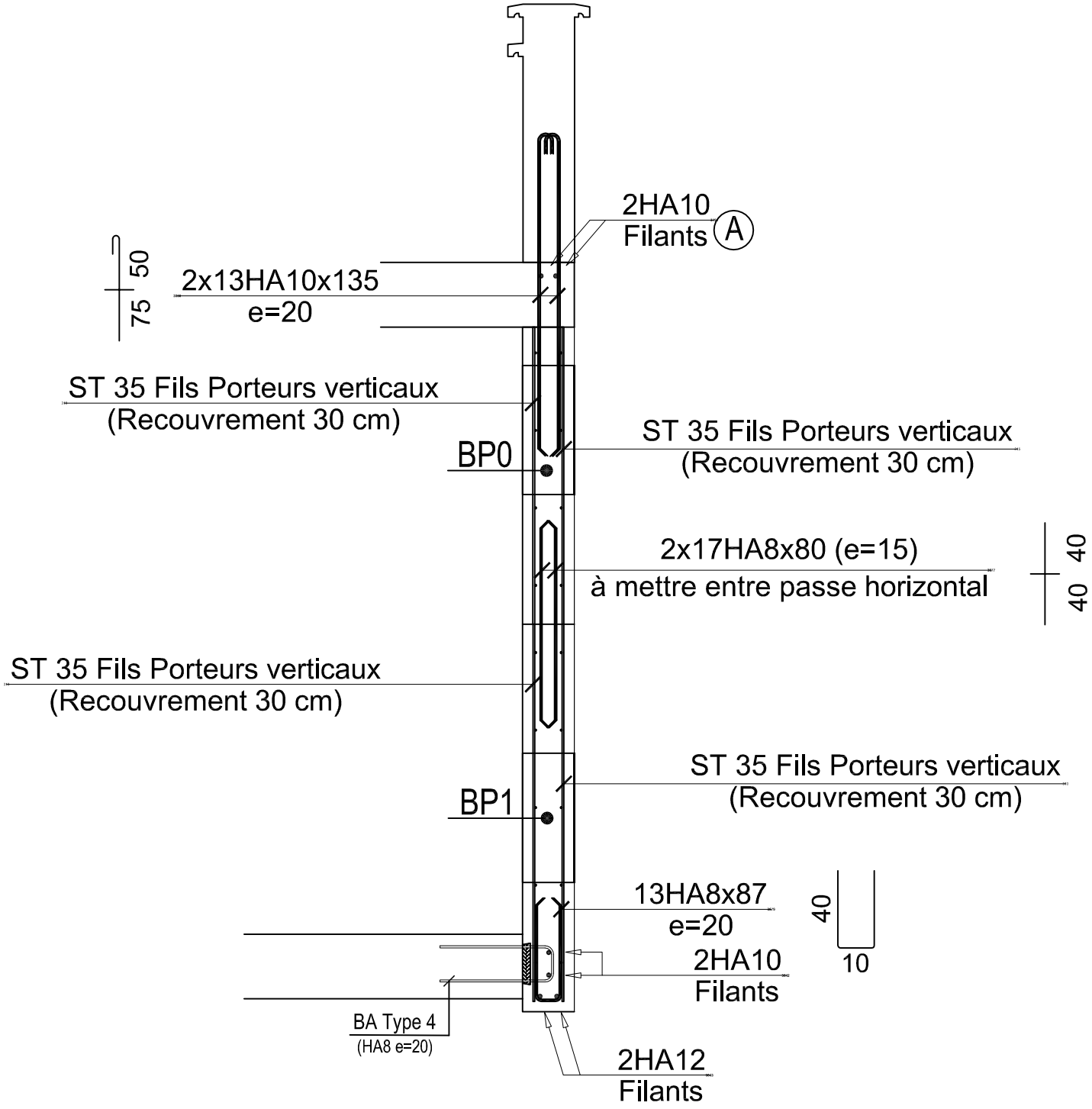
(A)
à mettre en oueuvre par le lot GO



Armatures VPP-17

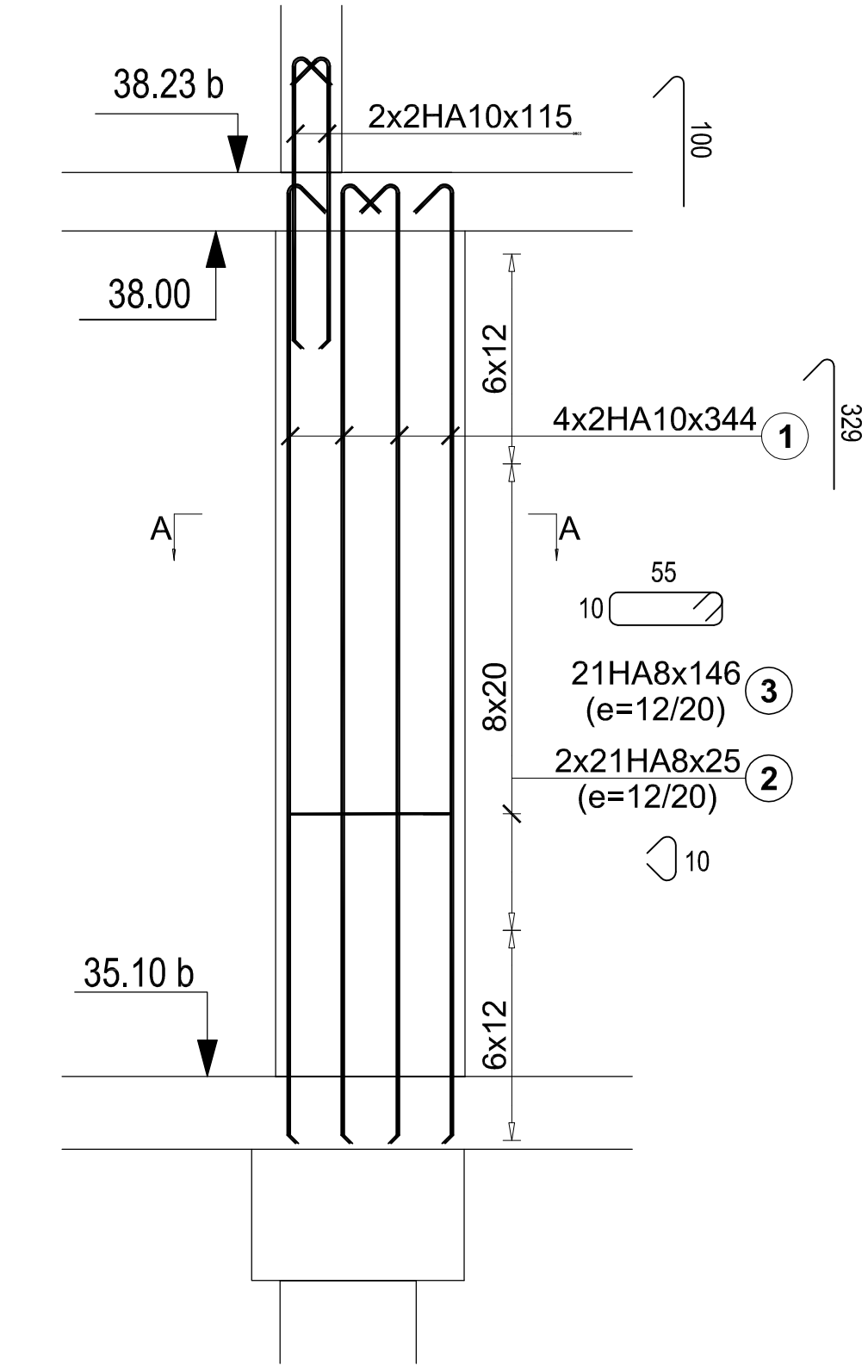
Total linéaire sans recouvrement =2.495 ml

(A)
à mettre en oueuvre par le lot GO

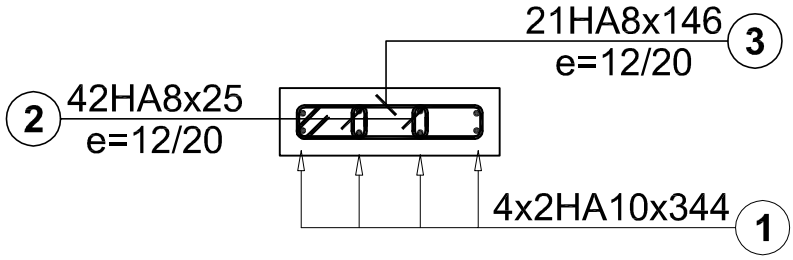


Armatures Pt.214

20x65

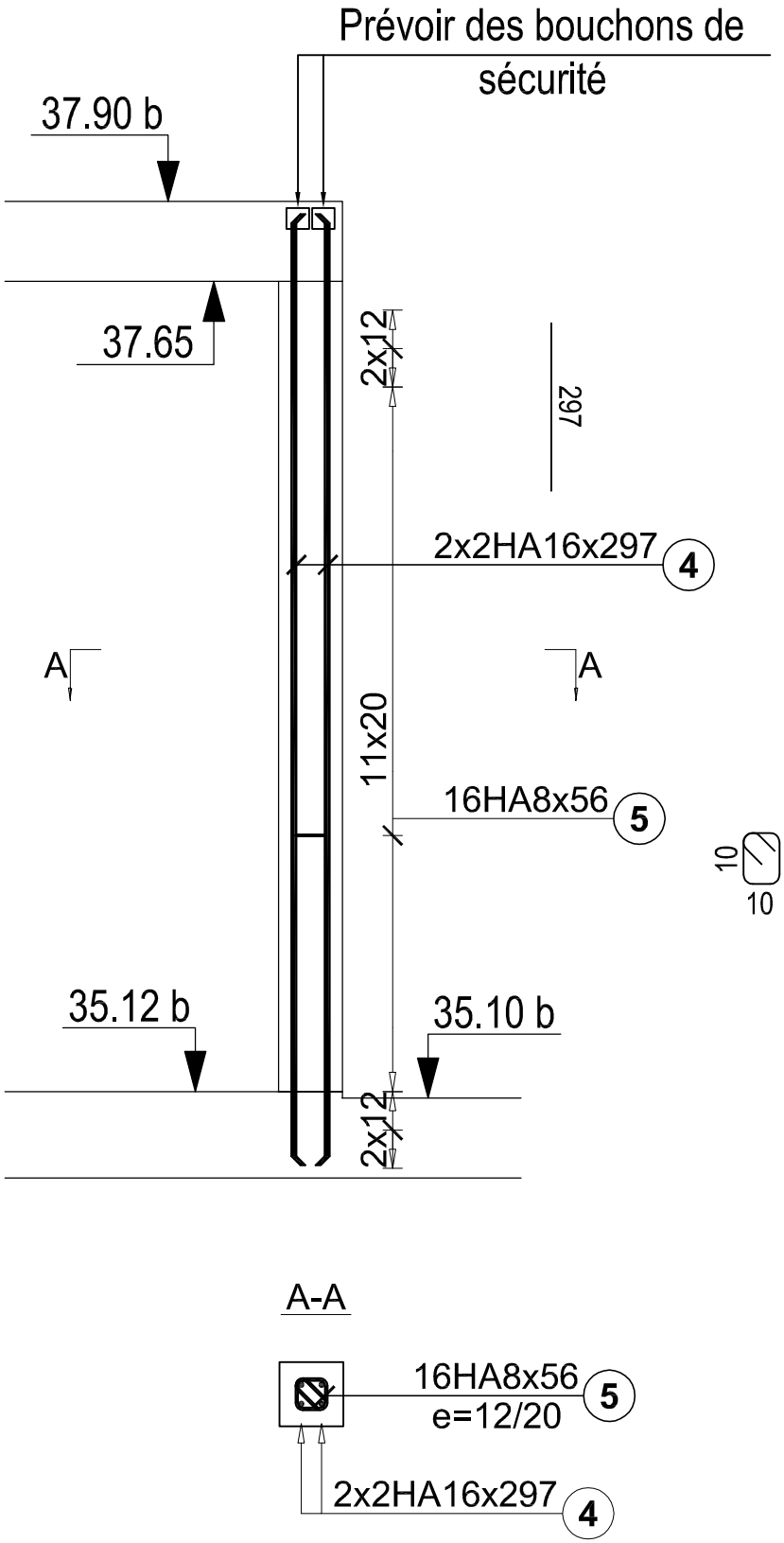


A-A



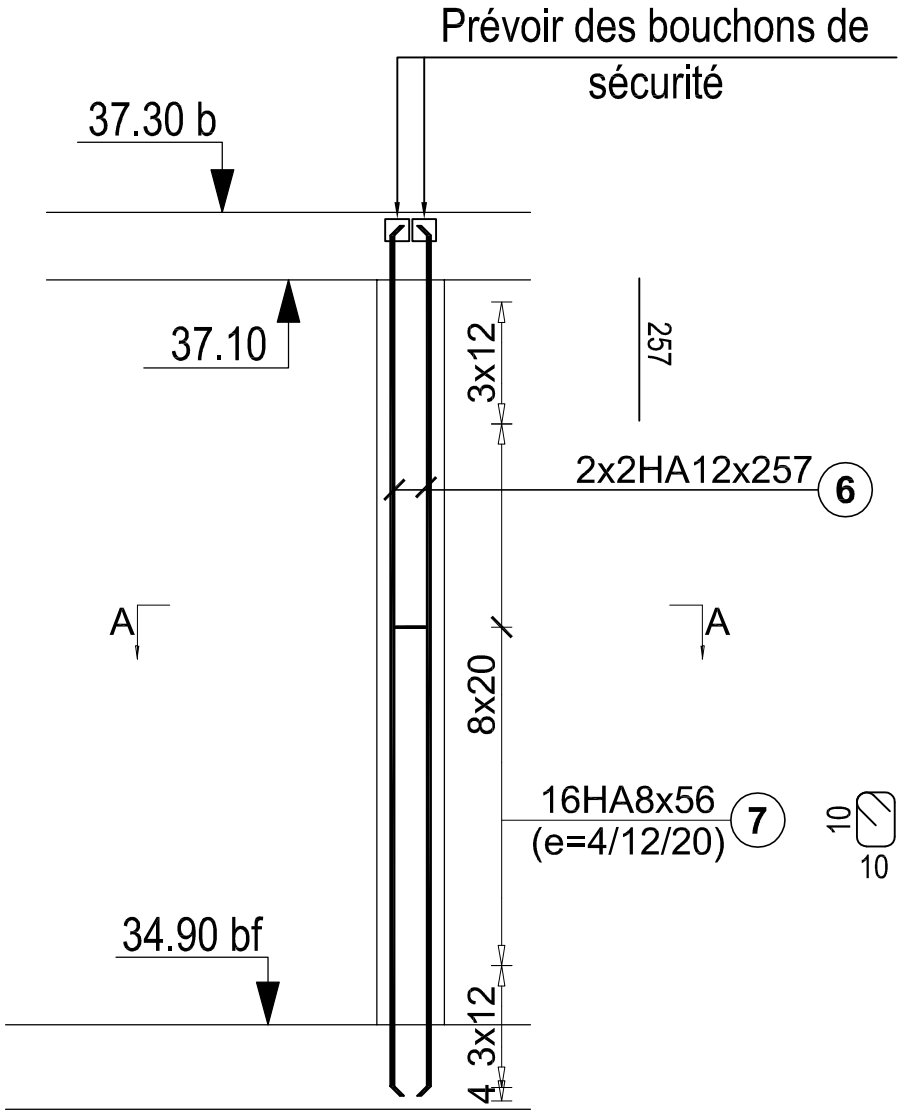
Armatures Pt.215

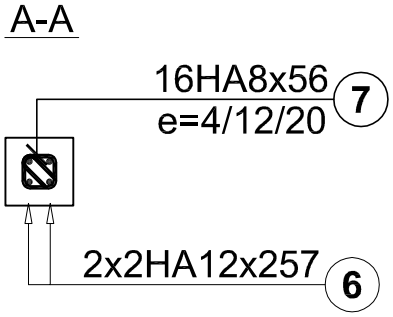
20x20



Armatures Pt.216

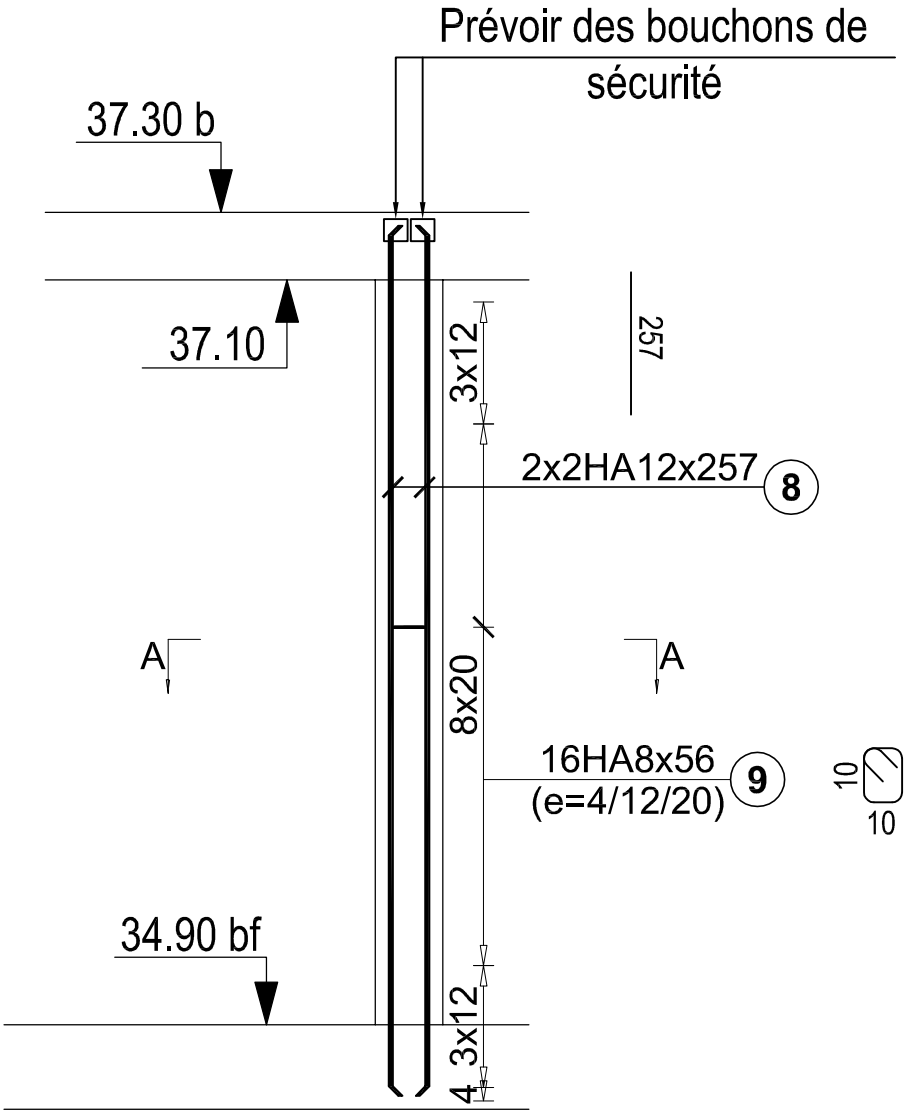
20x20



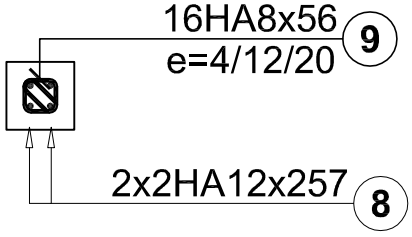


Armatures Pt.217

20x20



A-A



Armatures Pt.218

20x80