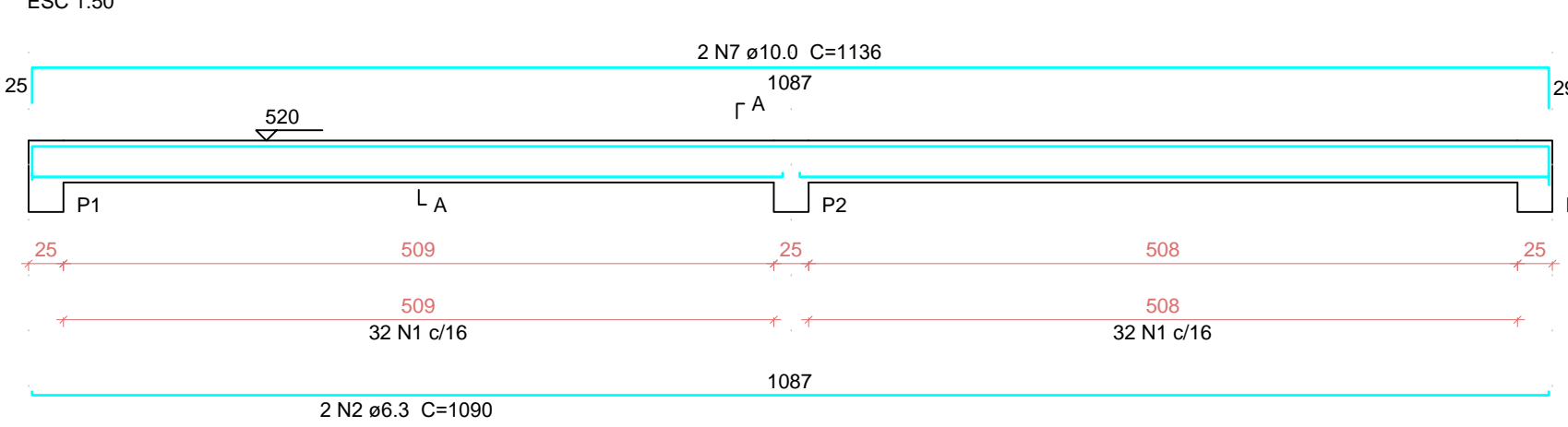
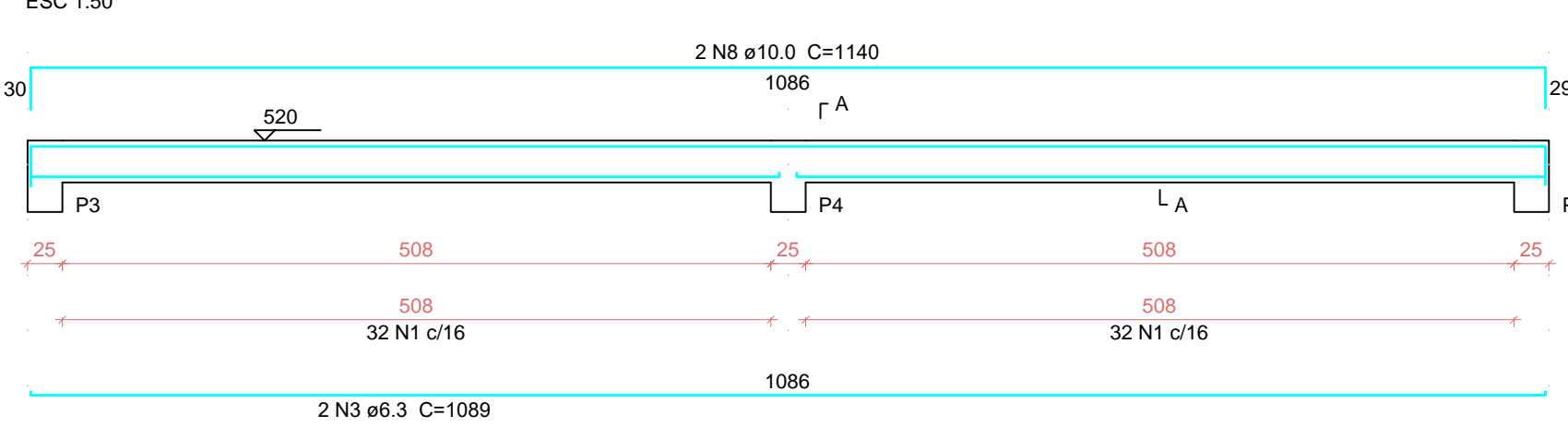


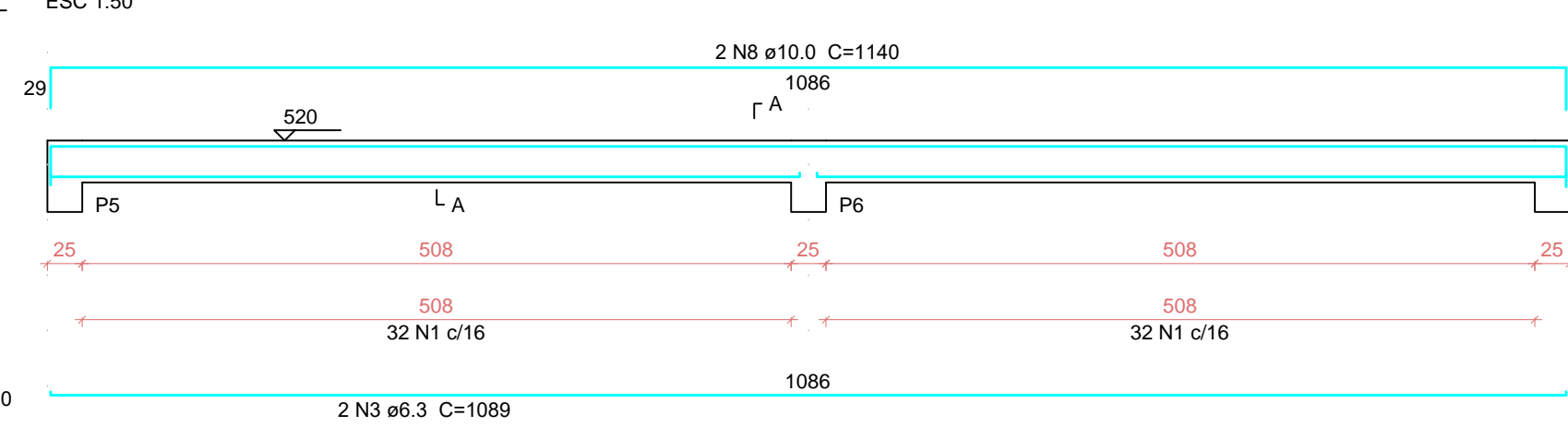
**VC1 (14 x 30)**



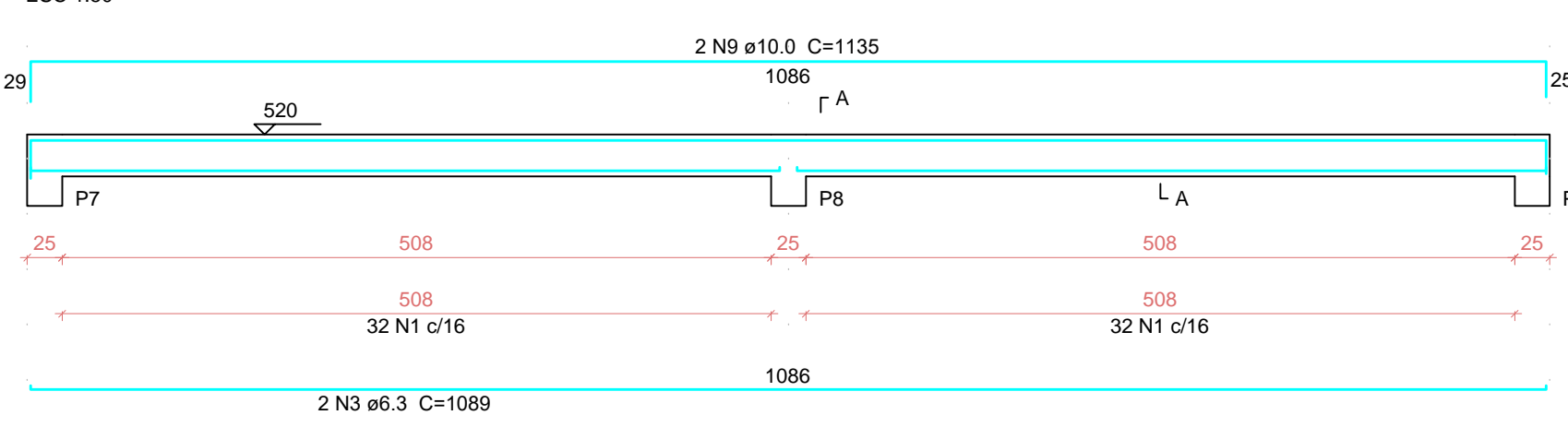
**VC2 (14 x 30)**



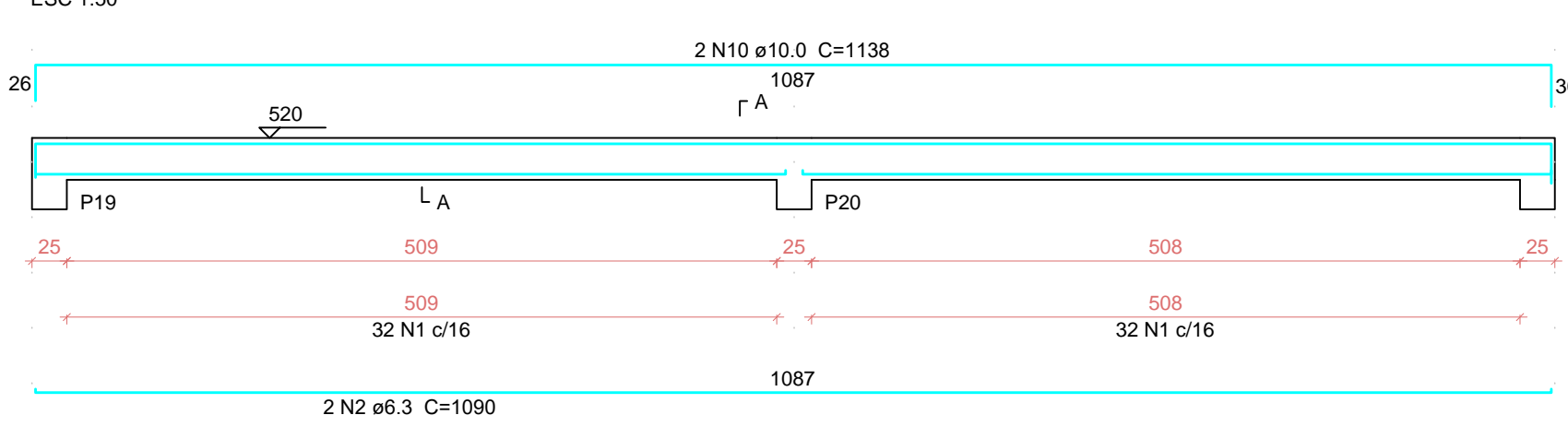
**VC3 (14 x 30)**



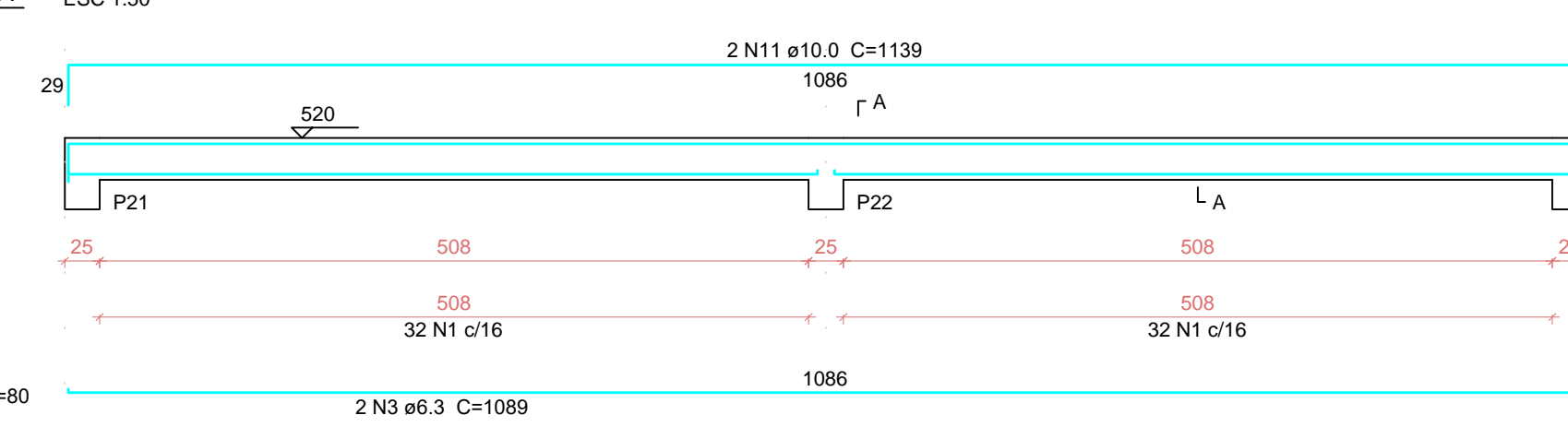
**VC4 (14 x 30)**



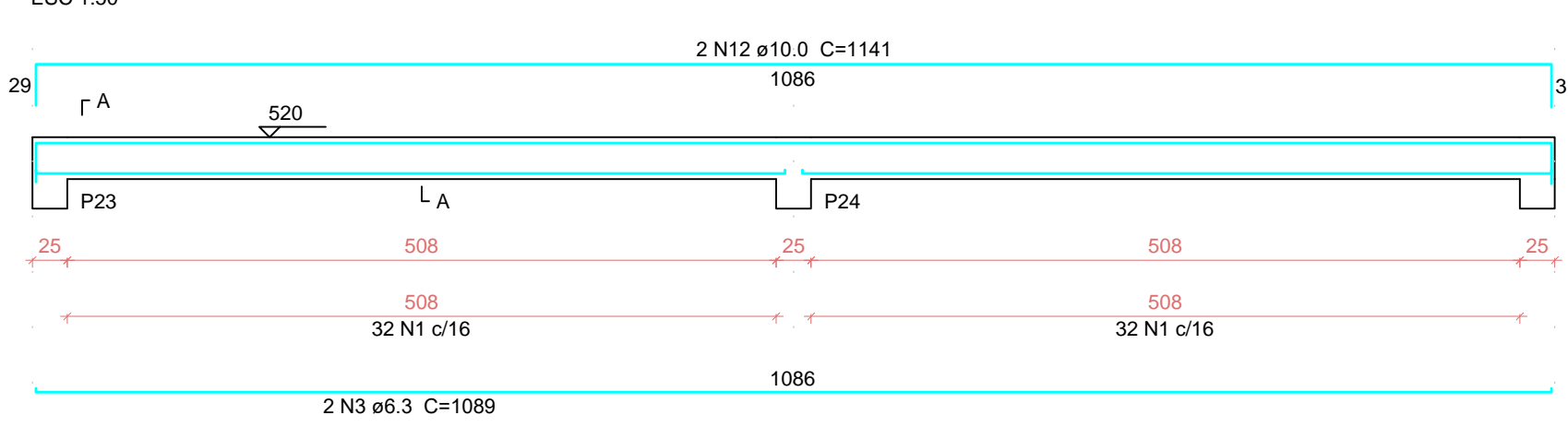
**VC5 (14 x 30)**



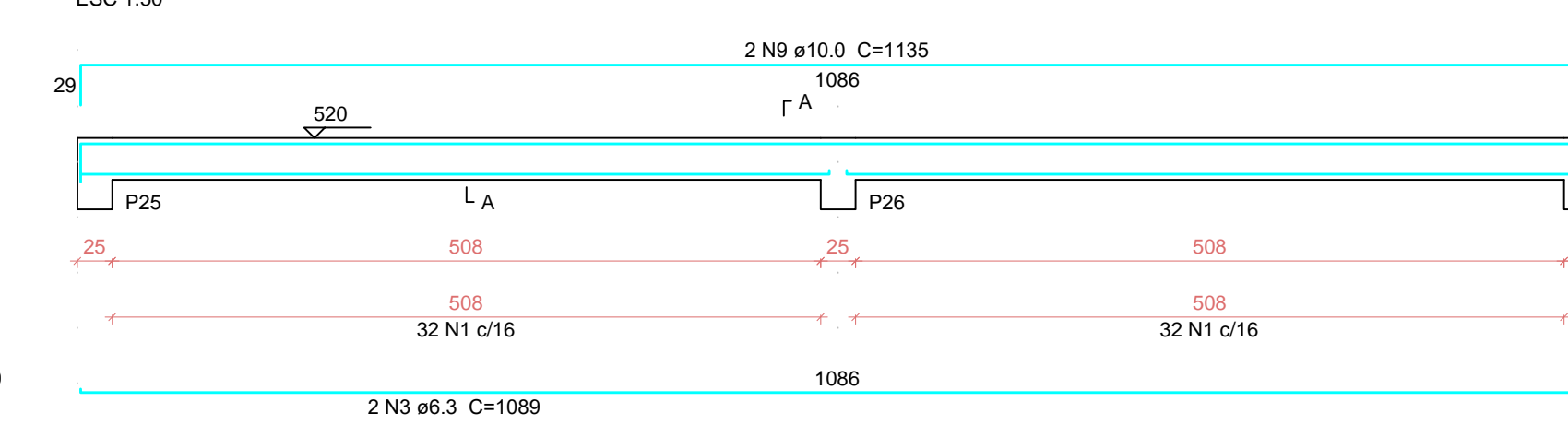
**VC6 (14 x 30)**



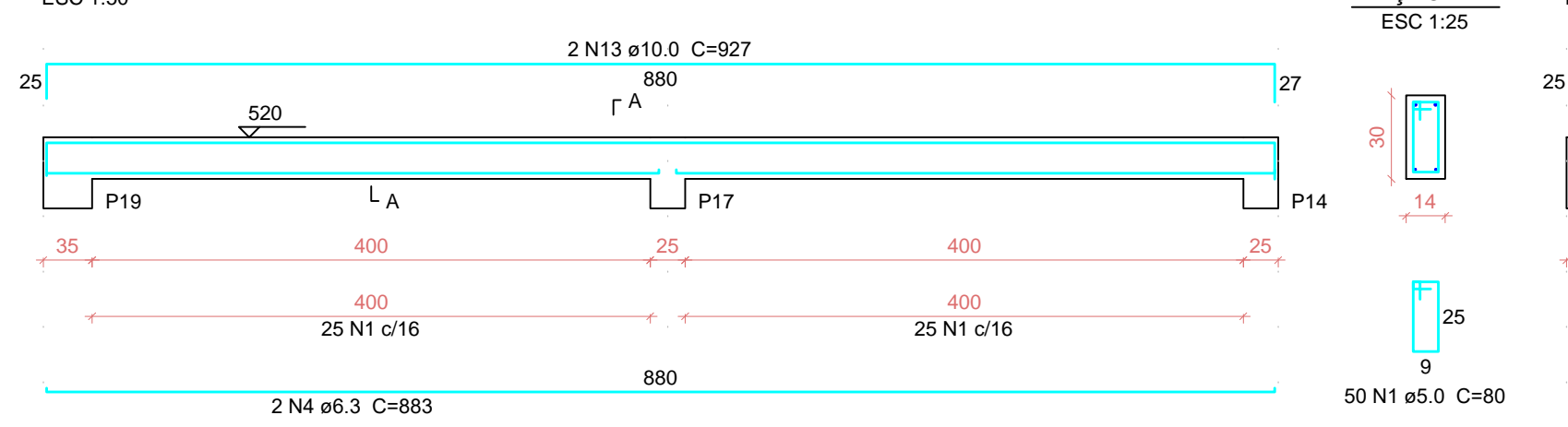
**VC7 (14 x 30)**



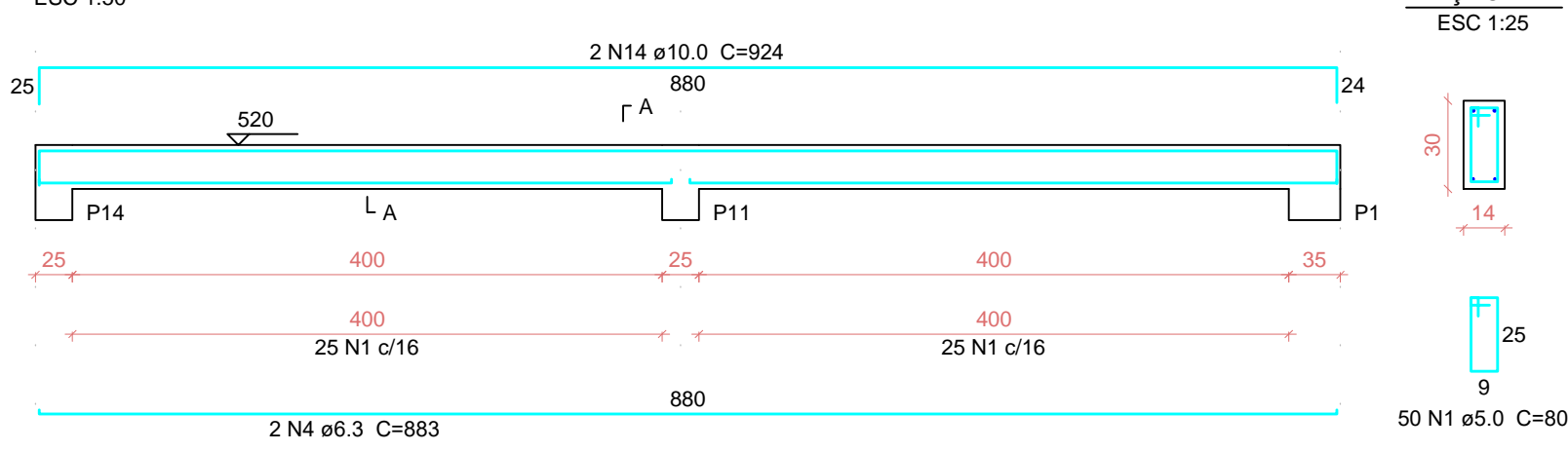
**VC8 (14 x 30)**



**VC9 (14 x 30)**



**VC10 (14 x 30)**



**Relação do aço**

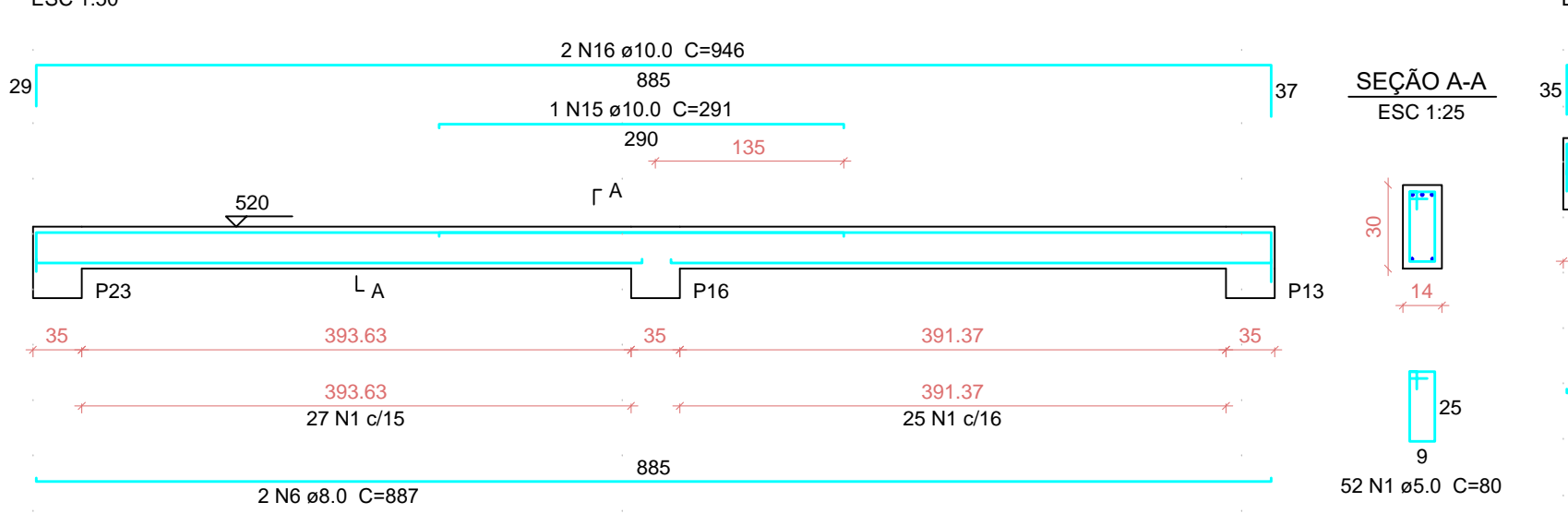
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	818	80	65440
CA50	2	6.3	4	1090	4360
	3	6.3	12	1089	13068
	4	6.3	6	883	5298
	5	6.3	2	884	1768
	6	8.0	4	887	3548
	7	10.0	2	1136	2272
	8	10.0	4	1140	4560
	9	10.0	4	1135	4540
	10	10.0	2	1138	2276
	11	10.0	2	1139	2278
	12	10.0	2	1141	2282
	13	10.0	2	927	1854
	14	10.0	4	924	3696
	15	10.0	1	291	291
	16	10.0	2	946	1892
	17	10.0	2	949	1898
	18	10.0	2	925	1850

**Resumo do aço**

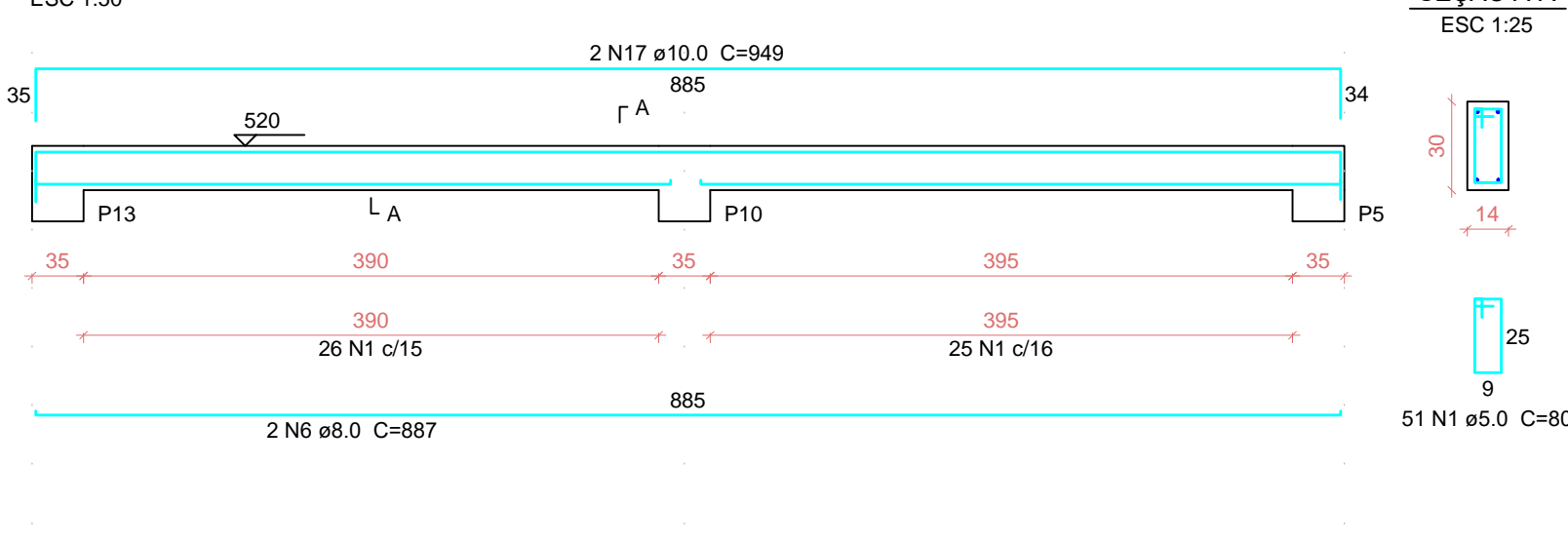
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	245	65.9
	8.0	35.5	15.4
	10.0	296.9	201.3
CA60	5.0	654.4	111
PESO TOTAL (kg)			
CA50		282.7	
CA60		111	

Volume de concreto (C-25) = 5.9 m³  
Área de forma = 103.98 m²

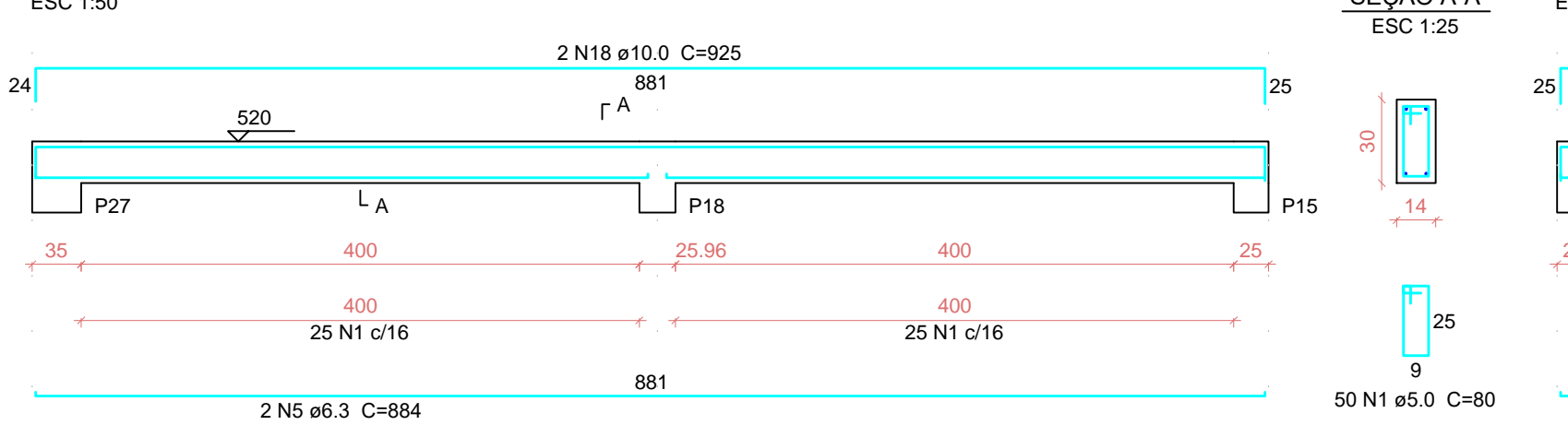
**VC11 (14 x 30)**



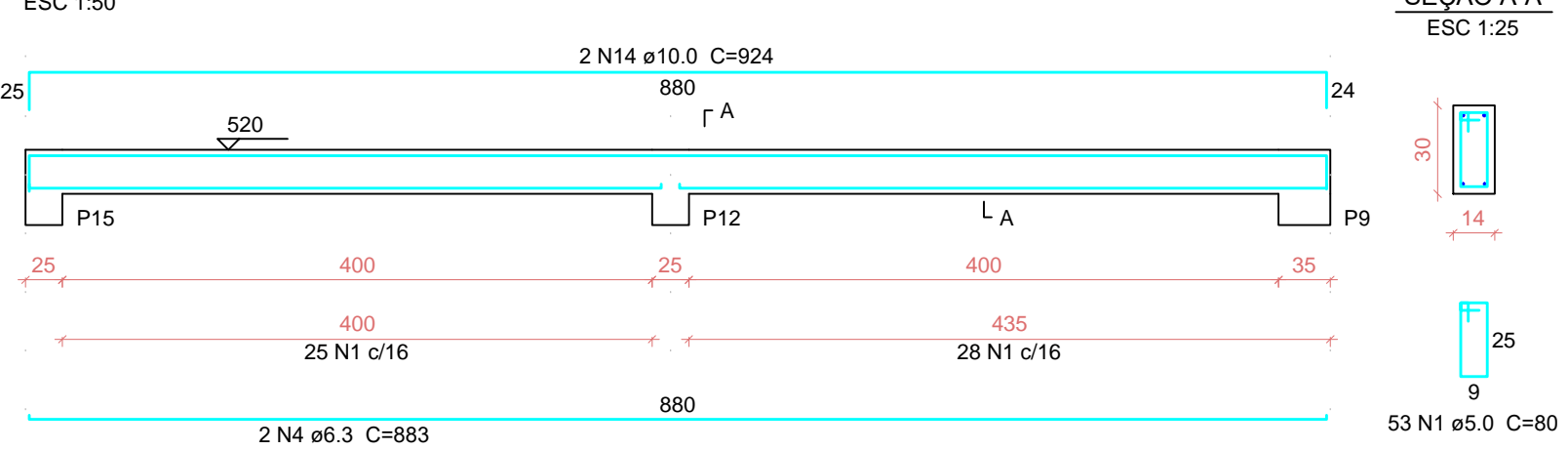
**VC12 (14 x 30)**



**VC13 (14 x 30)**



**VC14 (14 x 30)**





**BEGROW**<sup>®</sup>

**ENGENHARIA E CONSTRUÇÕES LTDA.**

CREA SC nº 22187-7 Fone (49) 3664-0417 Av. Sul Brasil, 329 - Maravilha-SC

OBRA: Edificação Comercial			
ENDEREÇO: Avenida Maravilha, esquina com a Rua Carlos Antonio Cembranel - Maravilha/SC			
REFERÊNCIA: VIGAS "C"			
ESCALA: Indicada	DATA: Novembro/2019	ÁREA TOTAL: 748,60m²	PRANCHA: 778-13 (Est. Concreto)
DESENHO: Rudimar N. Begrow	PROPRIETÁRIO:		RESPONSÁVEL P/ PROJETO:
MUNICÍPIO DE MARAVILHA CNPJ nº 82.821.190/0001-72		Rudimar Norton Begrow CREA/SC nº 18993-3	
RESPONSÁVEL P/ EXECUÇÃO:			