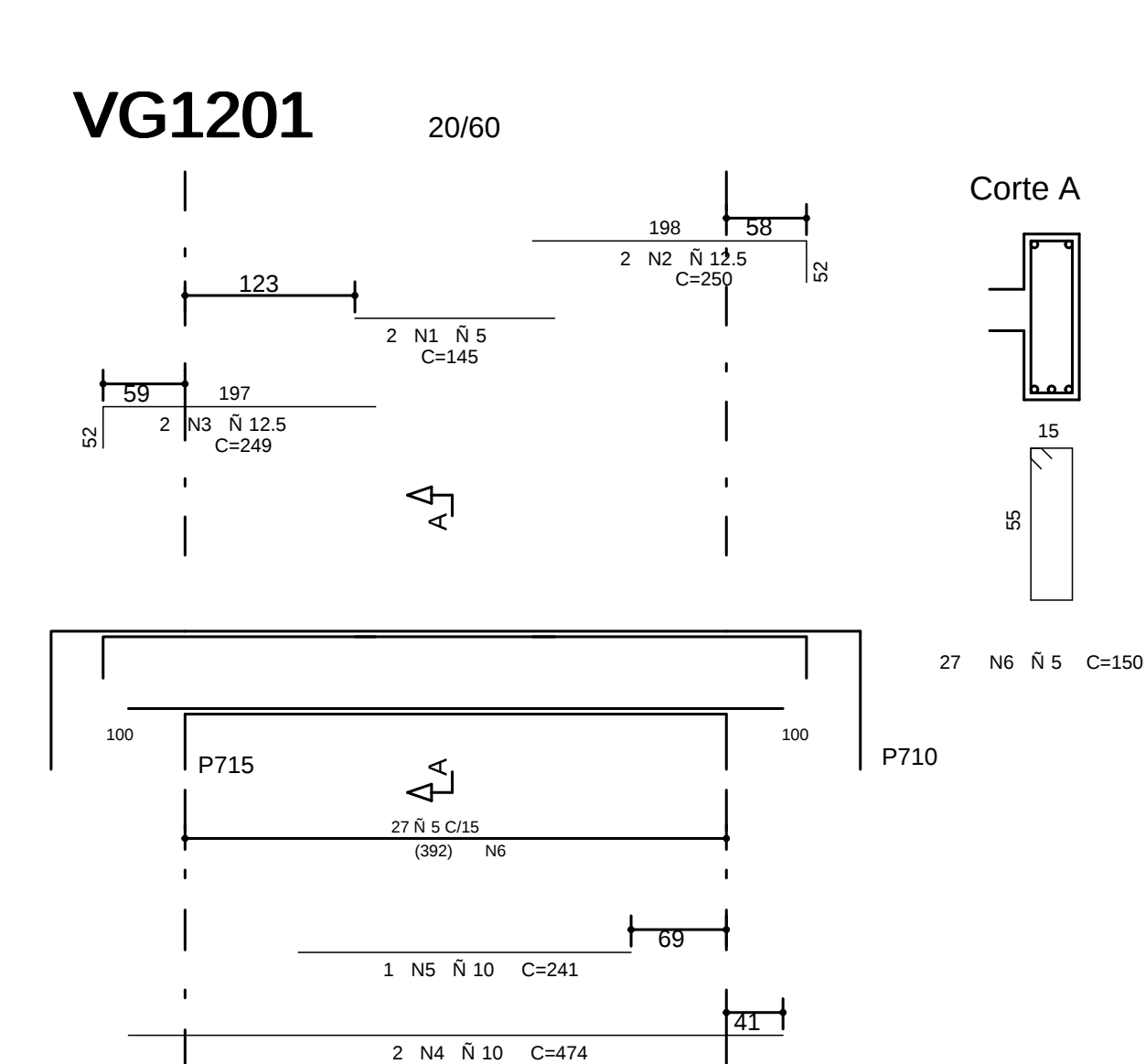
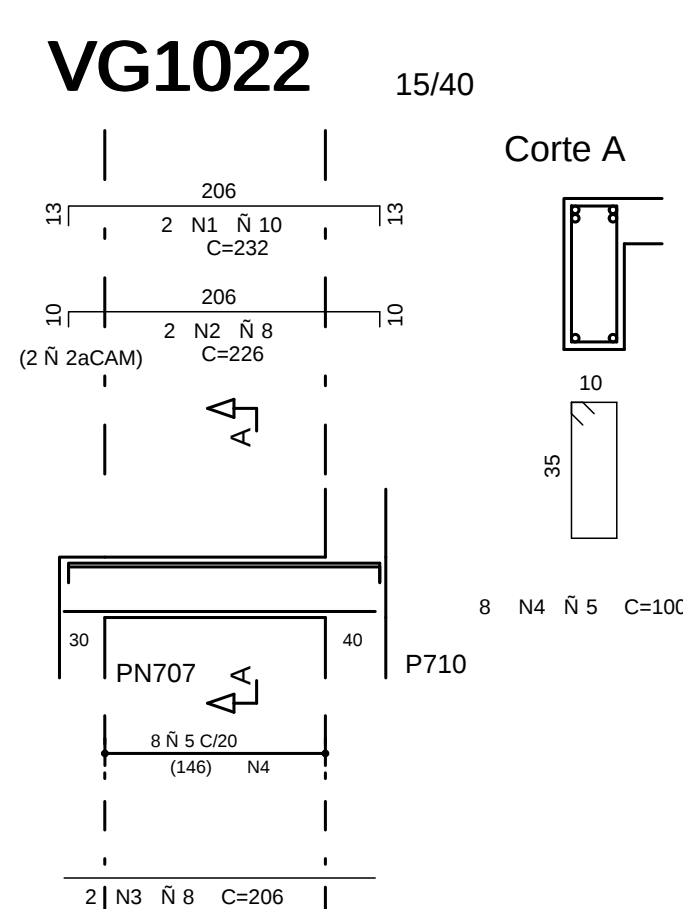
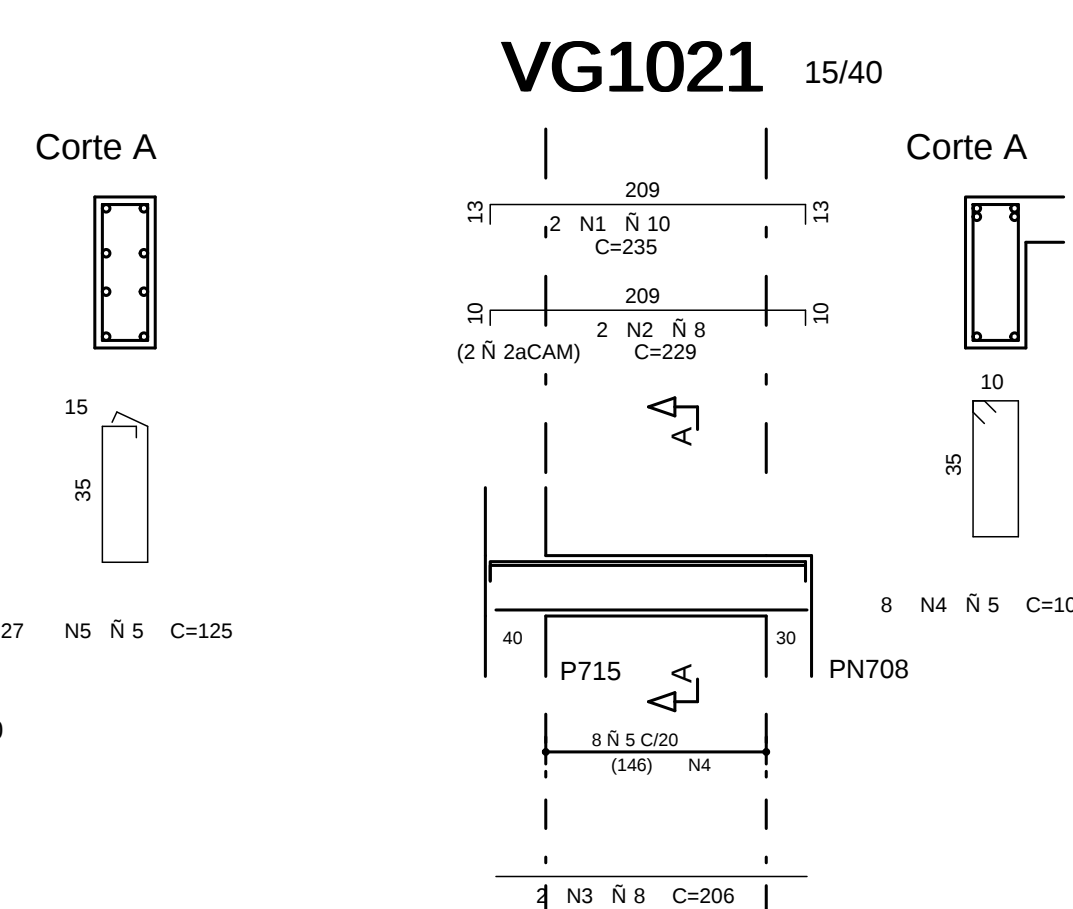
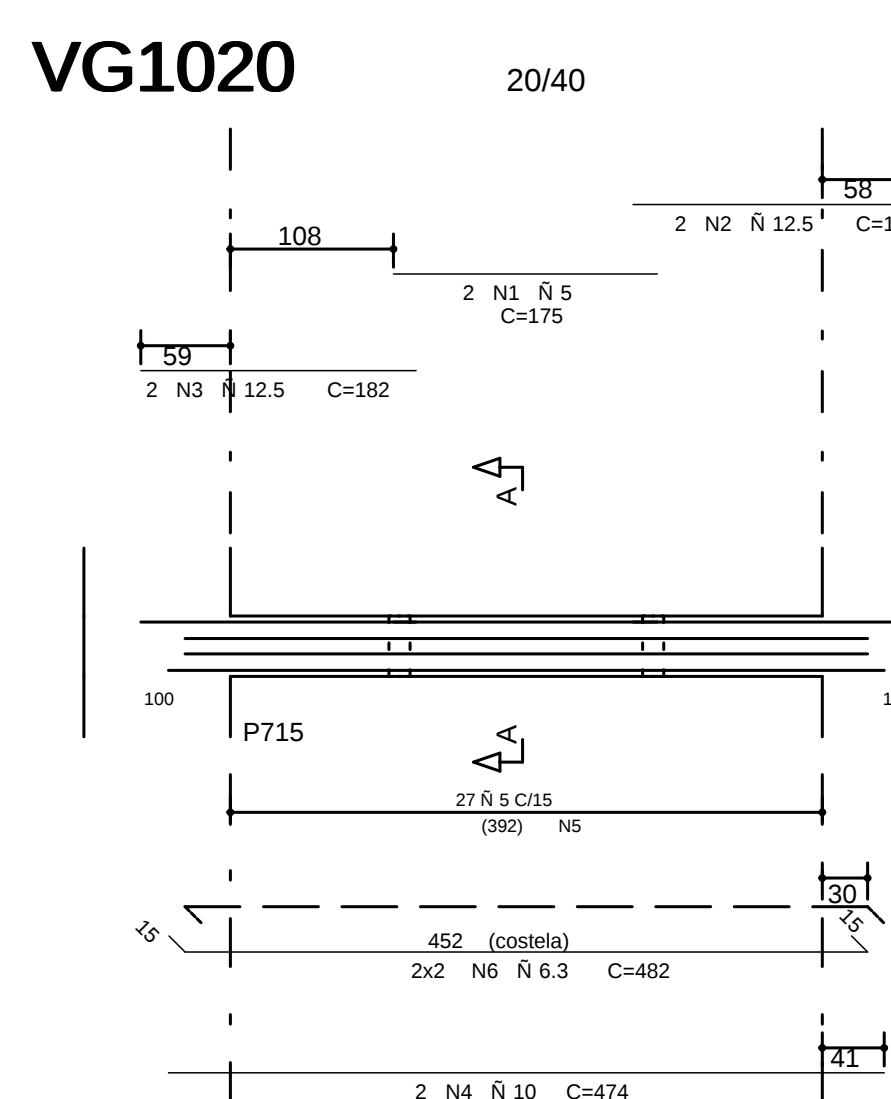
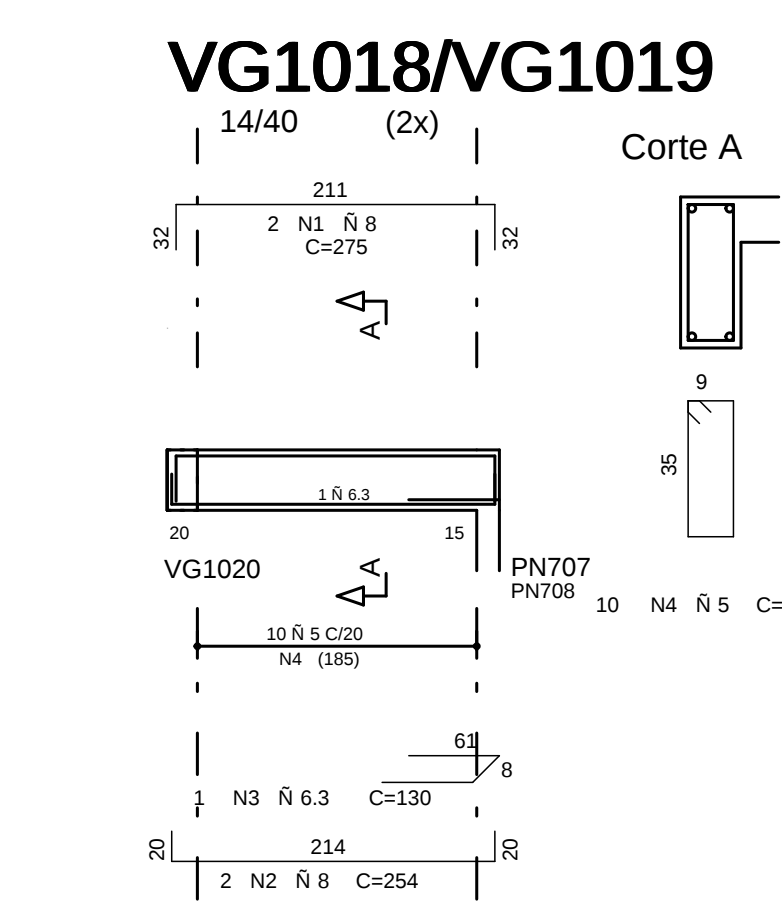
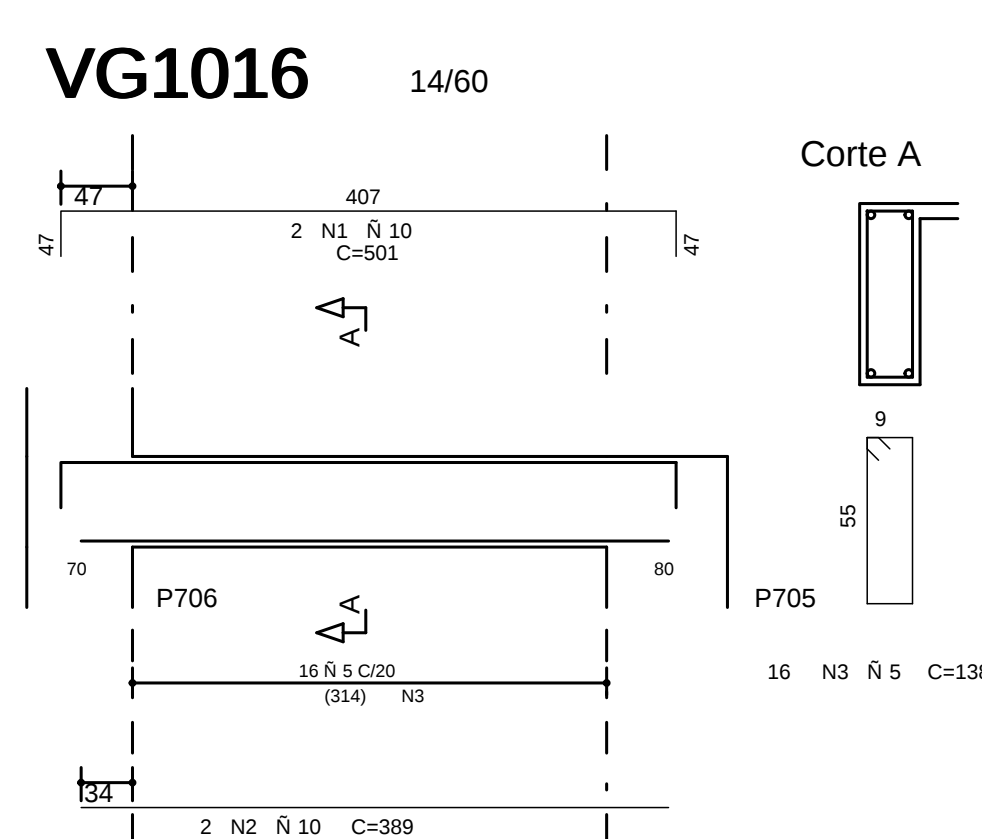
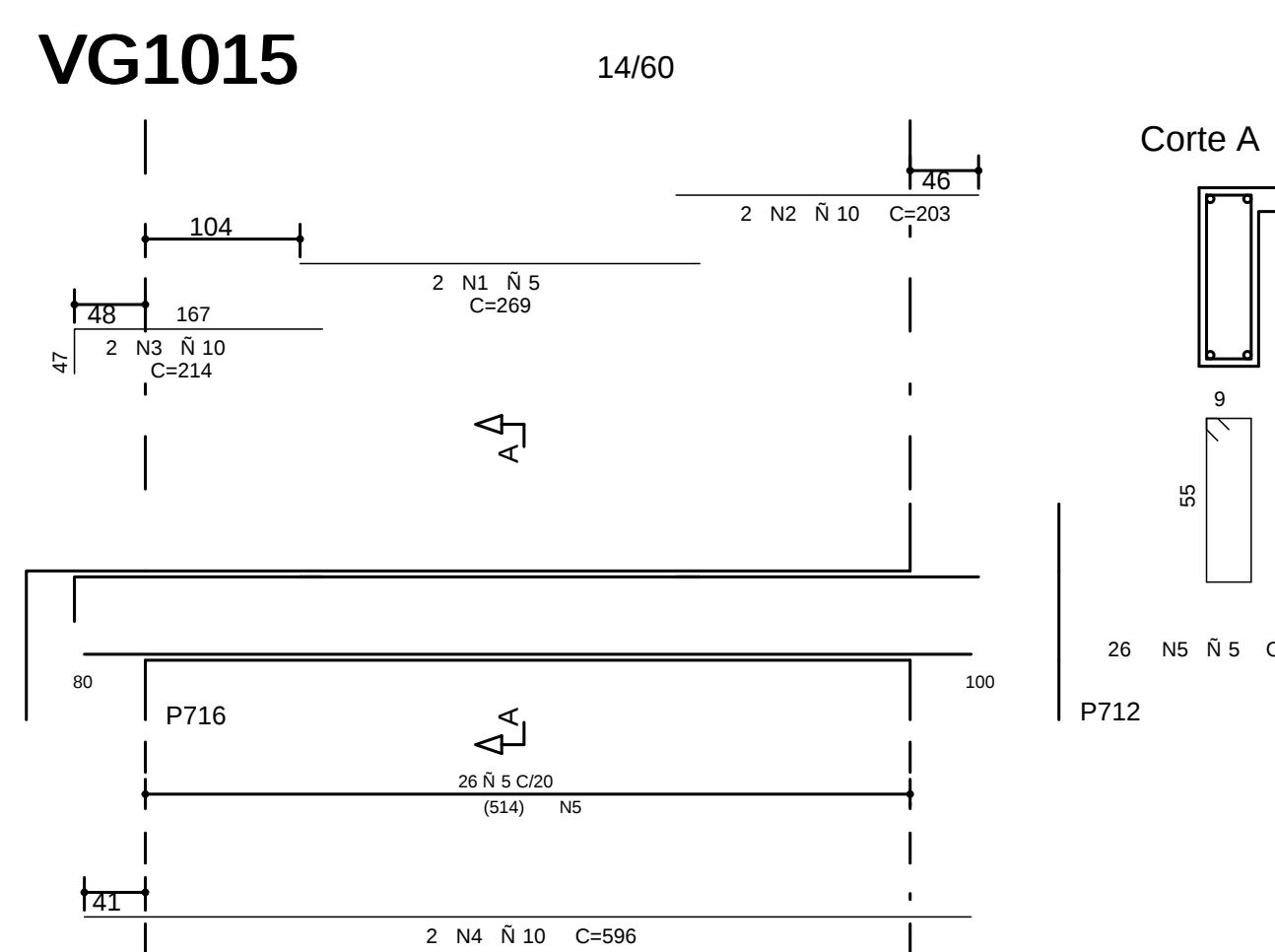
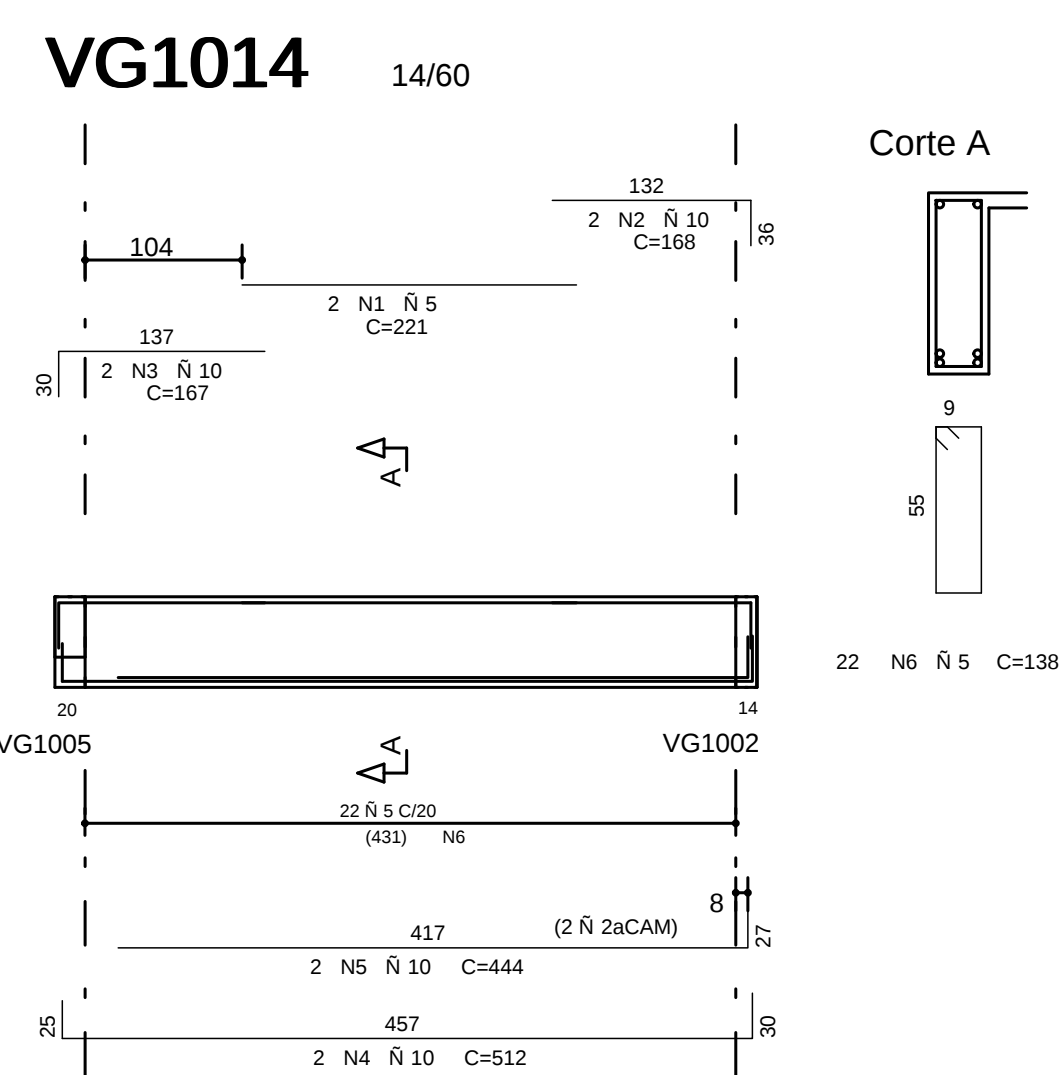
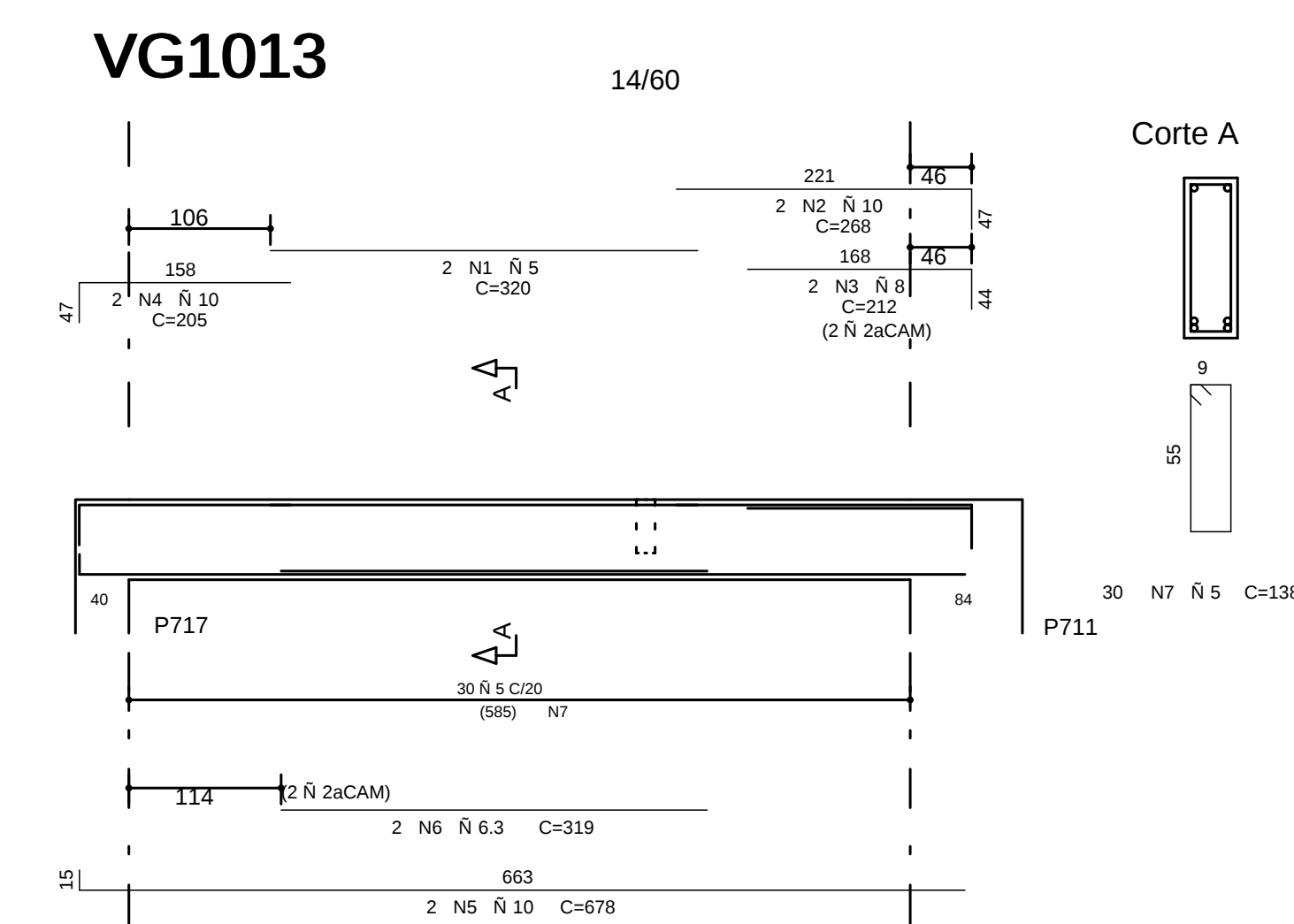
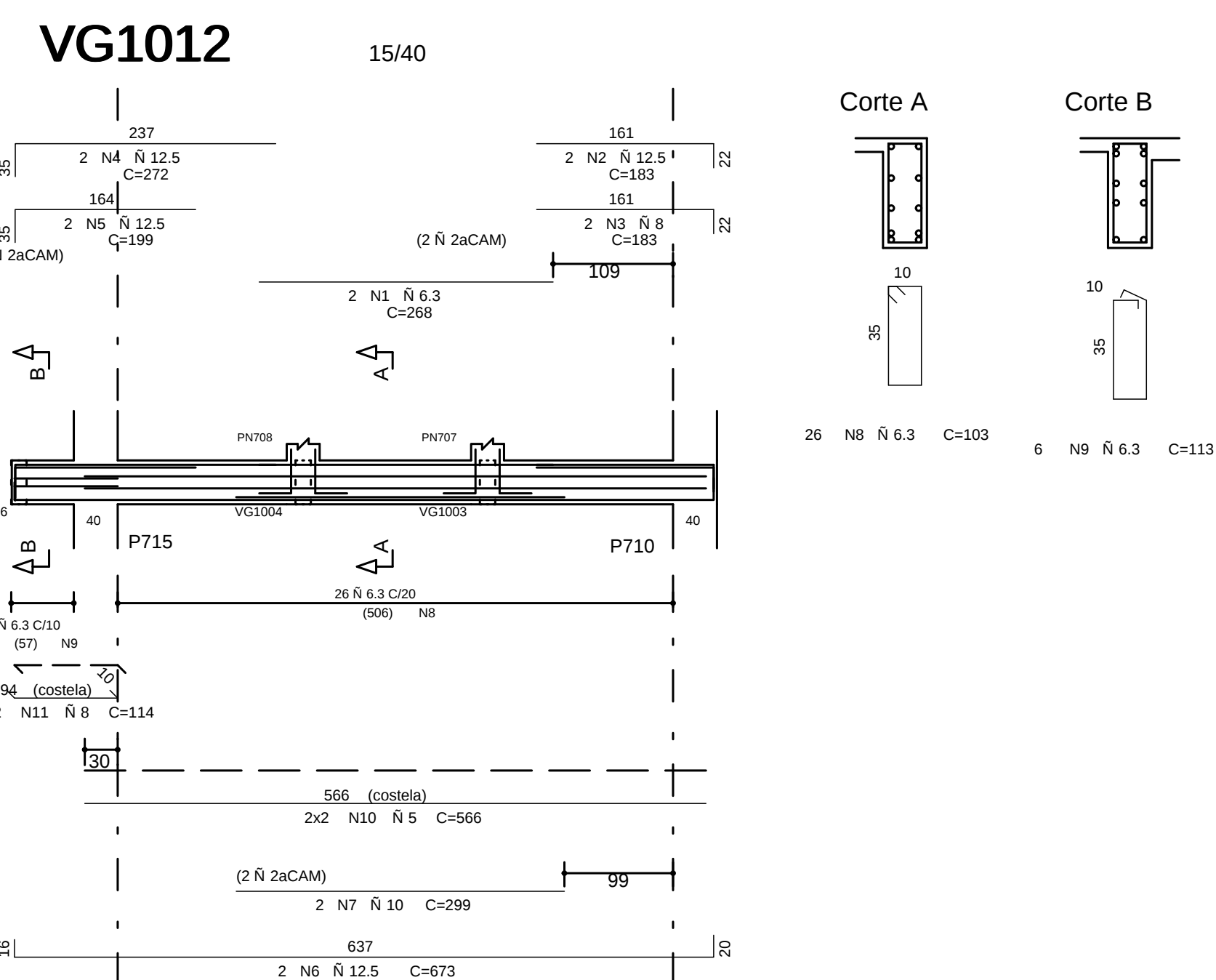
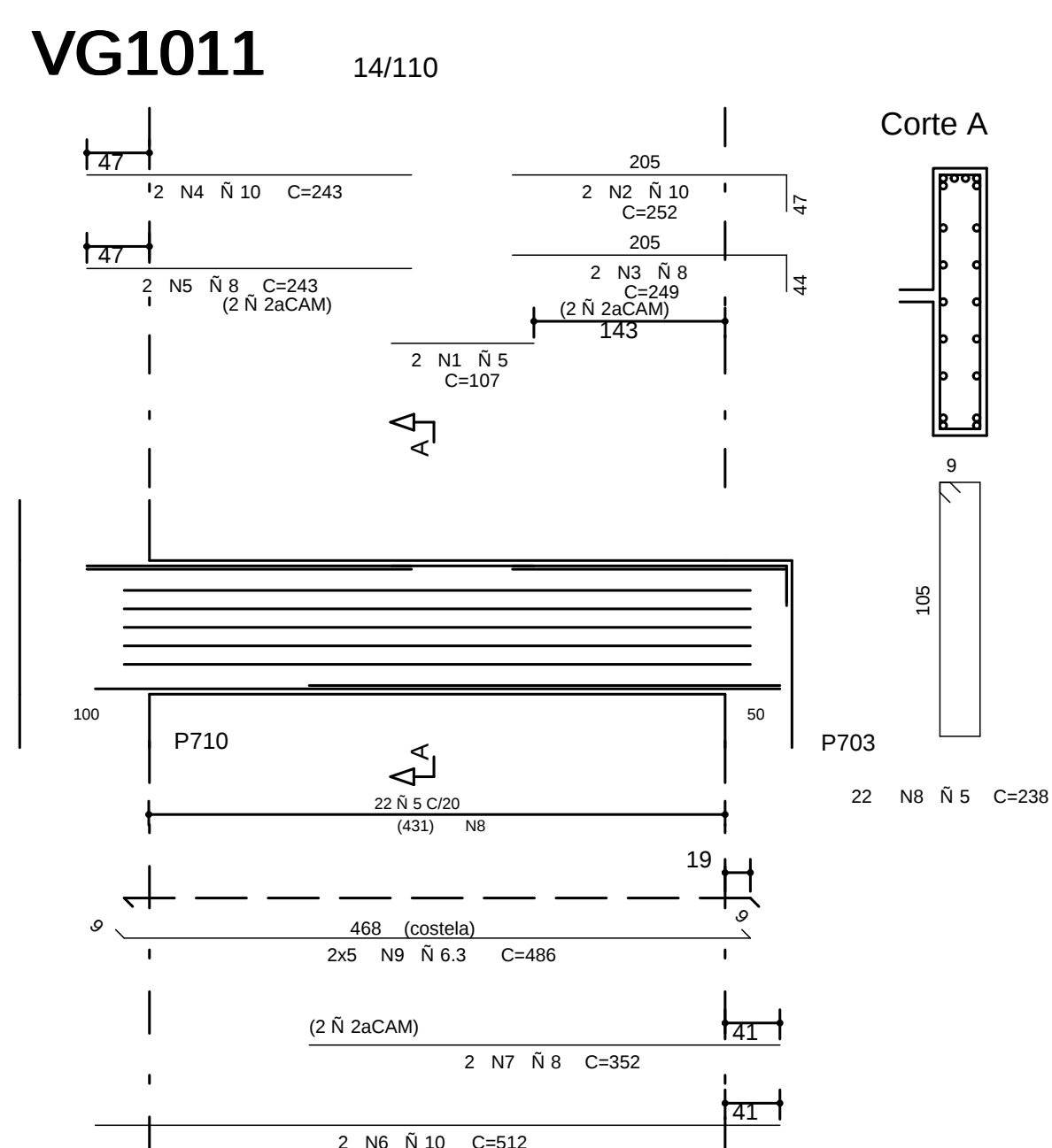
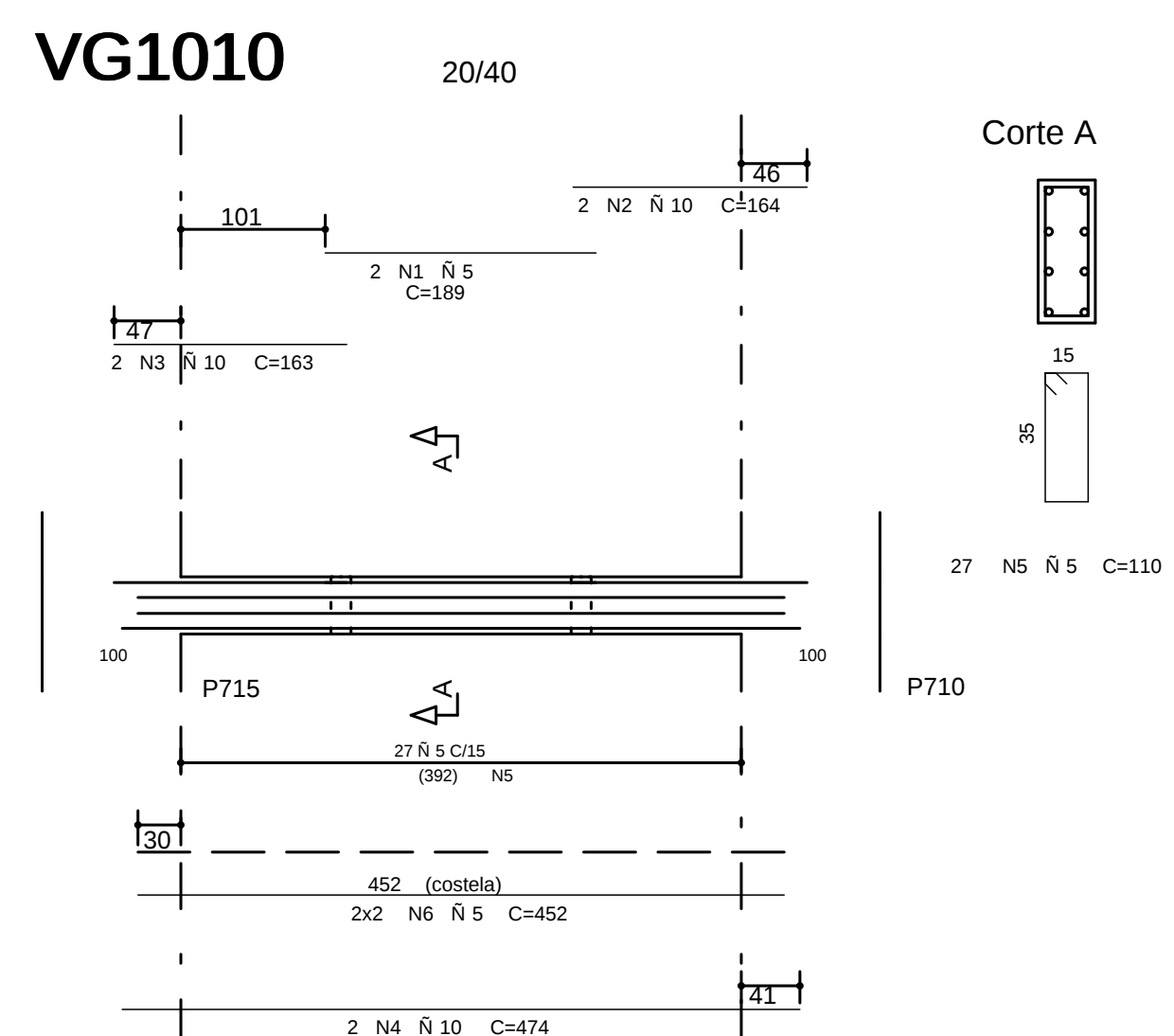
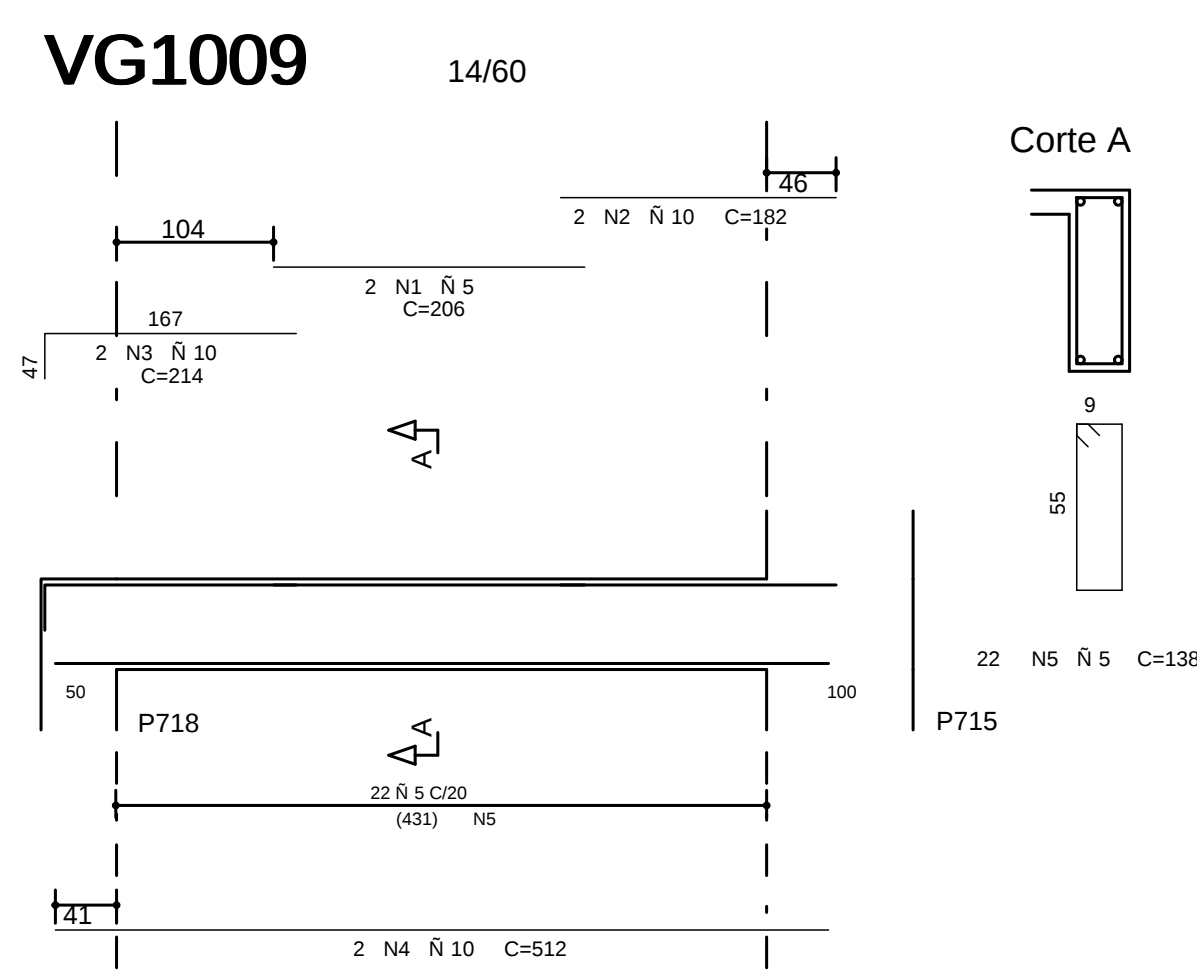
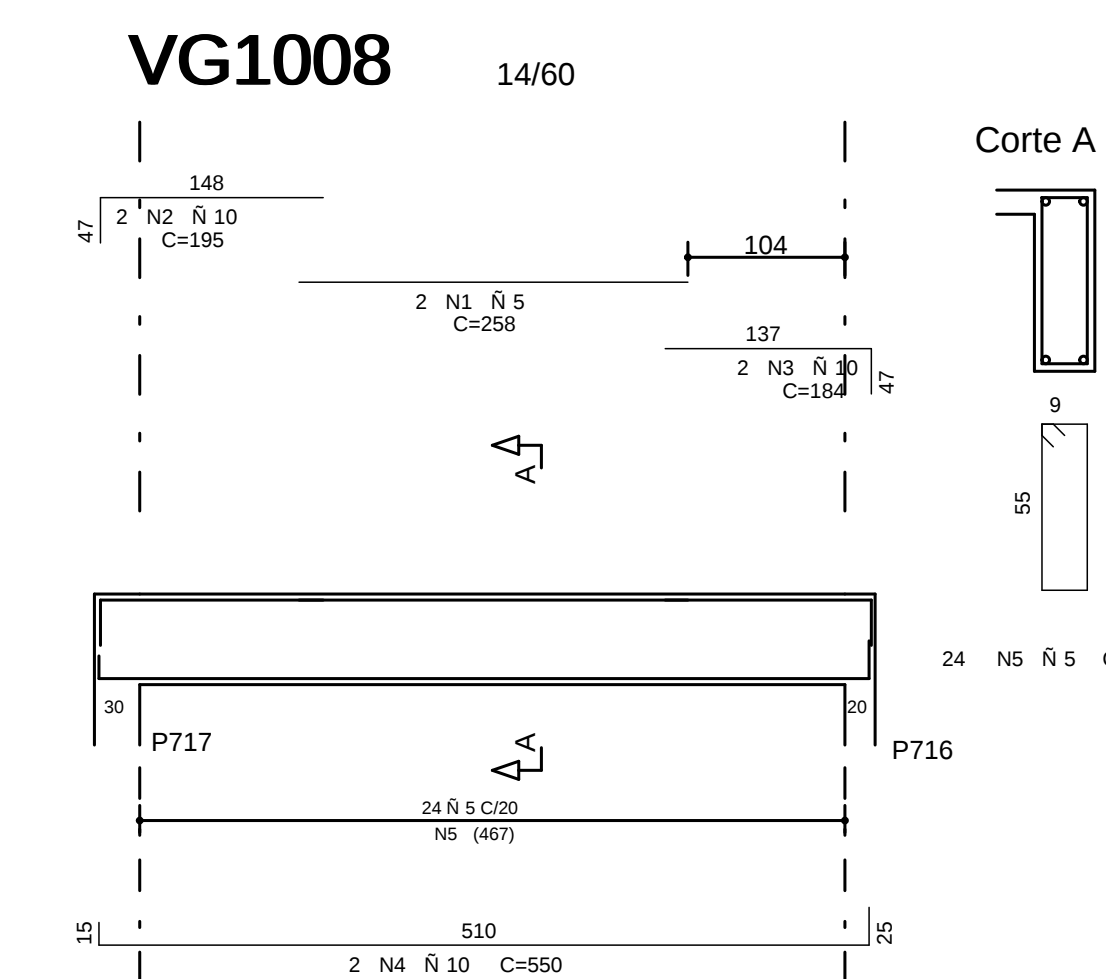
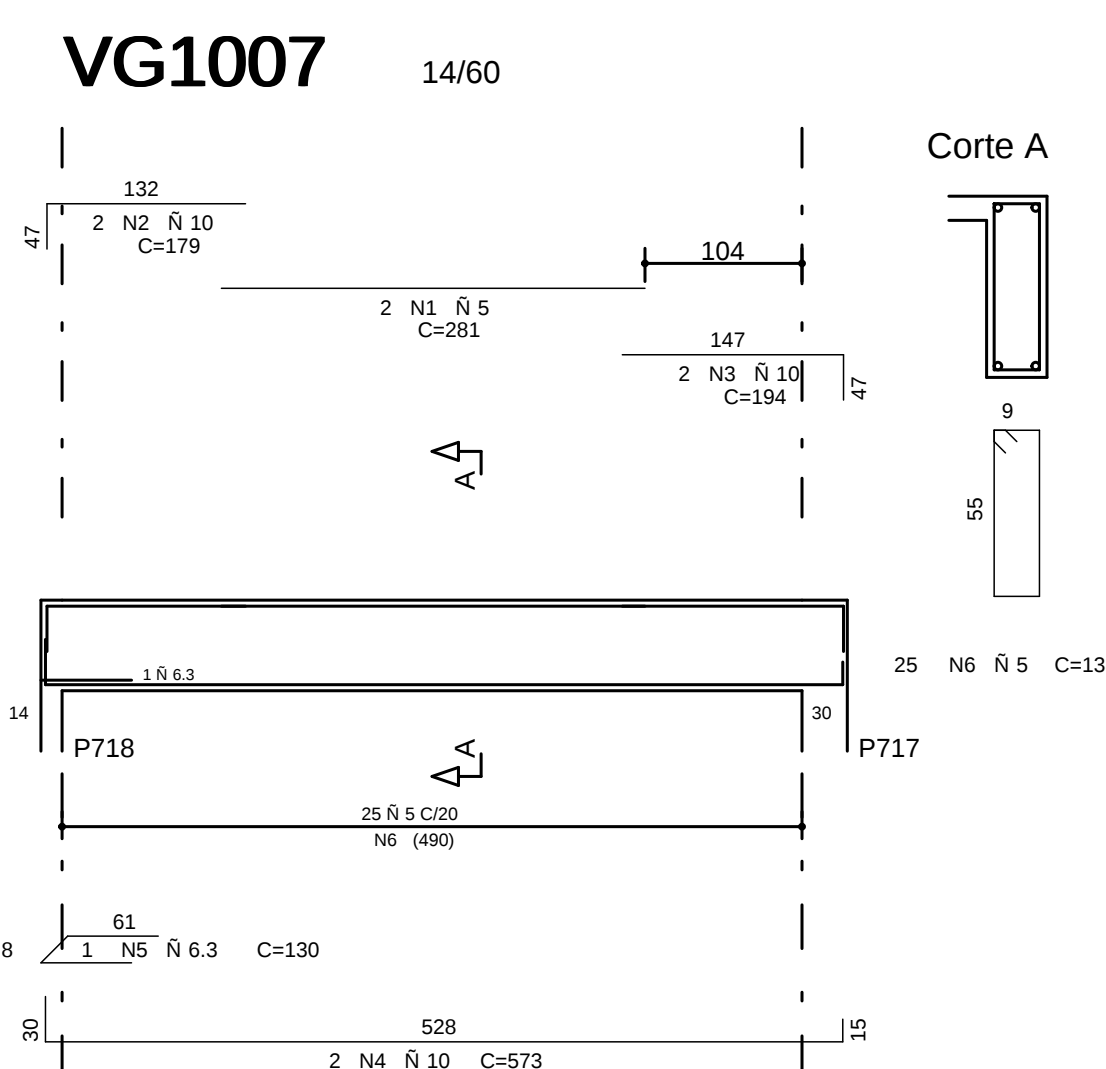
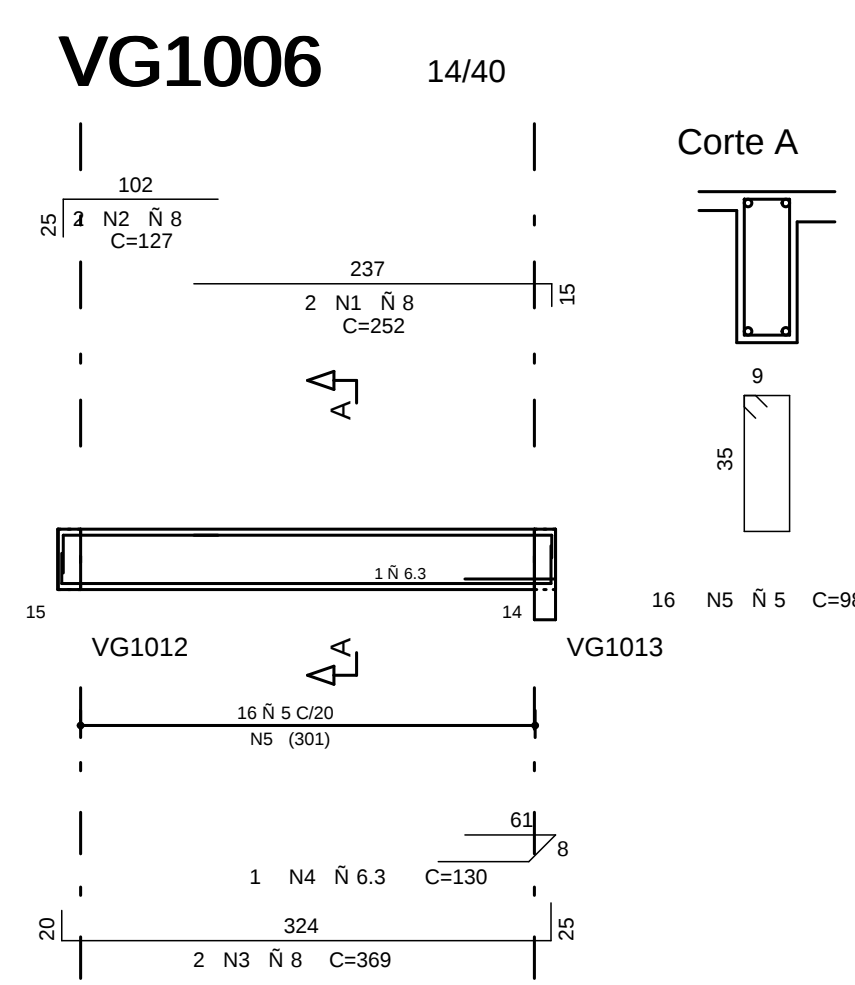
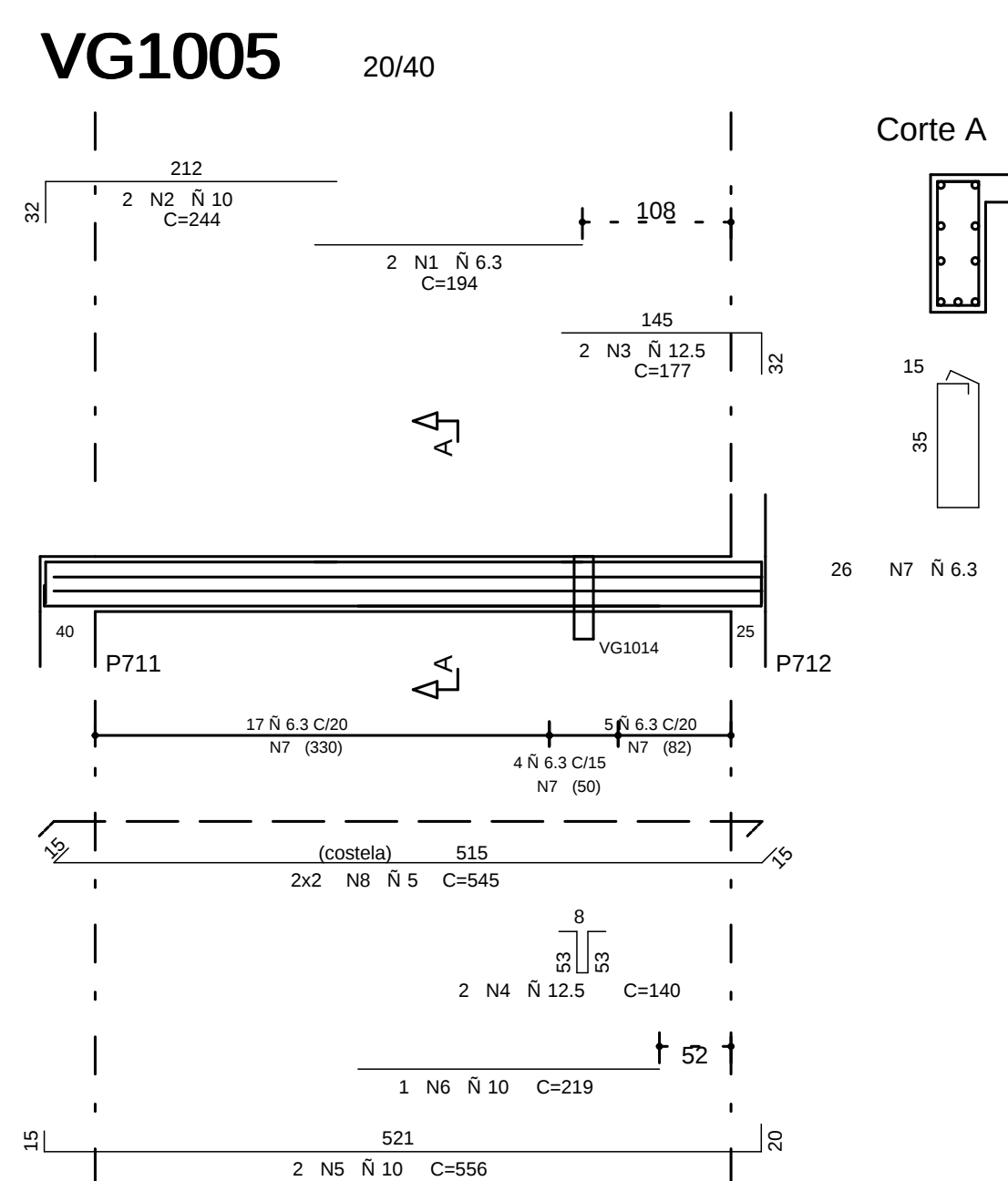
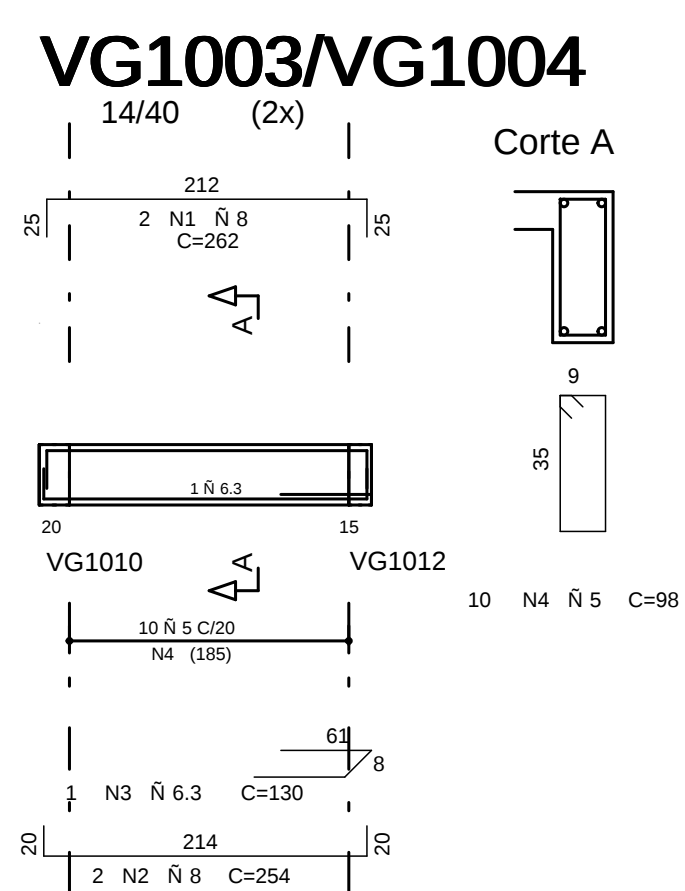
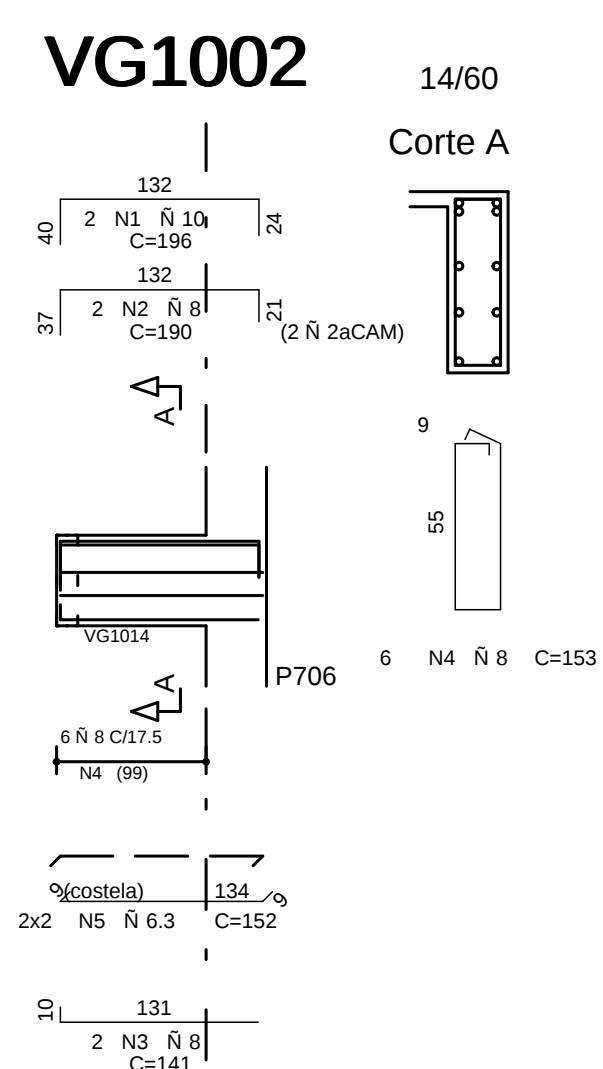
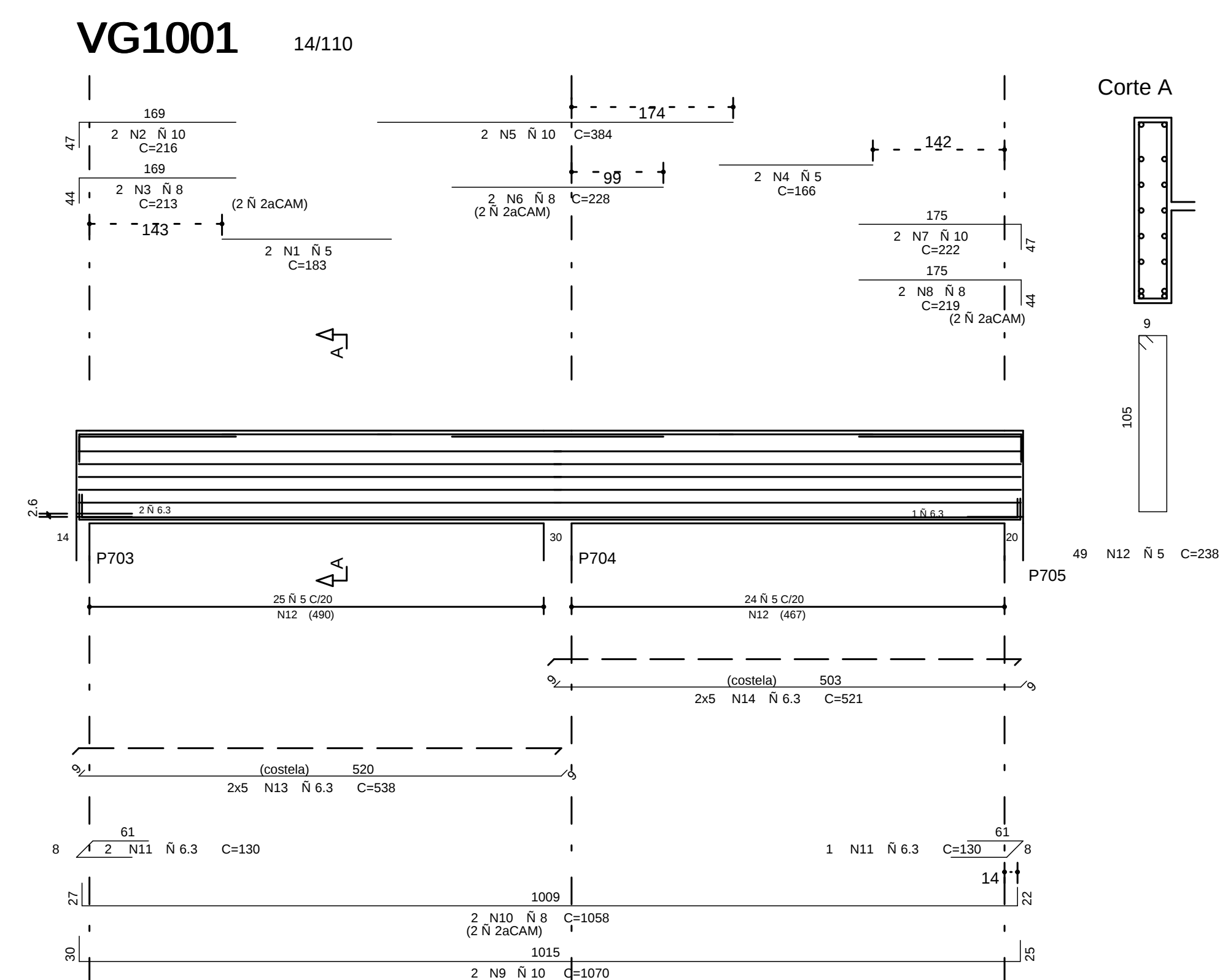




COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
- VIGAS E PILARES = 2,5 cm
- BLOCOS, BALDRAMES E CONTENCOES (FACE EM CONTATO COM A TERRA) = 3,0 cm

COBRIMENTOS ESPECÍFICOS EM CONTRÁRIO AOS VALORES INDICADOS ACIMA, ESTÃO INDICADOS NOS DESENHOS E FORMAS DOS PAVIMENTOS.

NORMAS UTILIZADAS:

NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO

NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

INDICE:

INDICE:

FCK= 30 MPa

EC = 28 GPa

$$A/C = 0,65$$

(MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

(FATOR AGUA CIMENTO)

0	26/10/2010	EMISSÃO INICIAL	
REV	DATA		DESCRICAO
 Simetra Engenharia SOLUÇÕES EM GESTÃO DE OBRAS E SERVIÇOS DE ENGENHARIA AV. QUARTA C/ALTA 33, 2º ANDAR PRÉDIO 501 - L1301-5045 PARA: 015.9133.0002 WWW.SIMETRA.ENG.BR			
PROJETO ESTRUTURAL			
CLIENTE	DISCO INCORPORADORA E IMOBILIARIA LTDA		
OBRA	EDIFICIO RESIDENCIAL OLYMPIQUE		Nº ORDEM 001
ENGENHEIRO OBRA	SRA AREA ESPECIAL, DA LOTES G H - GUARAPUÁ		
RESUMO	ARMACAO DAS VIGAS DA COBERTURA DO 18o PAVIMENTO, CASA DE MAQ, TAMPA DO RESERV. TORRE D - JANTA G		DECEIO Nº:
DESENHISTA	DATA	ESCALA	UNIDADE
TOBY JHENRIQUE	26/10/2010	1:50	CM
APROVADO PLT			Nº PROJ. SIMETRA 421
AUT. EST. - 429 XXX - 000 - PLT			
PROFISAPRO	RESPONSABIL. TECNICO		
RESPONSÁVEL TÉCNICO PELO PROJETO ESTRUTURAL			
SIMETRA ENGENHARIA E PROJETOS S/C LTDA 096472086			