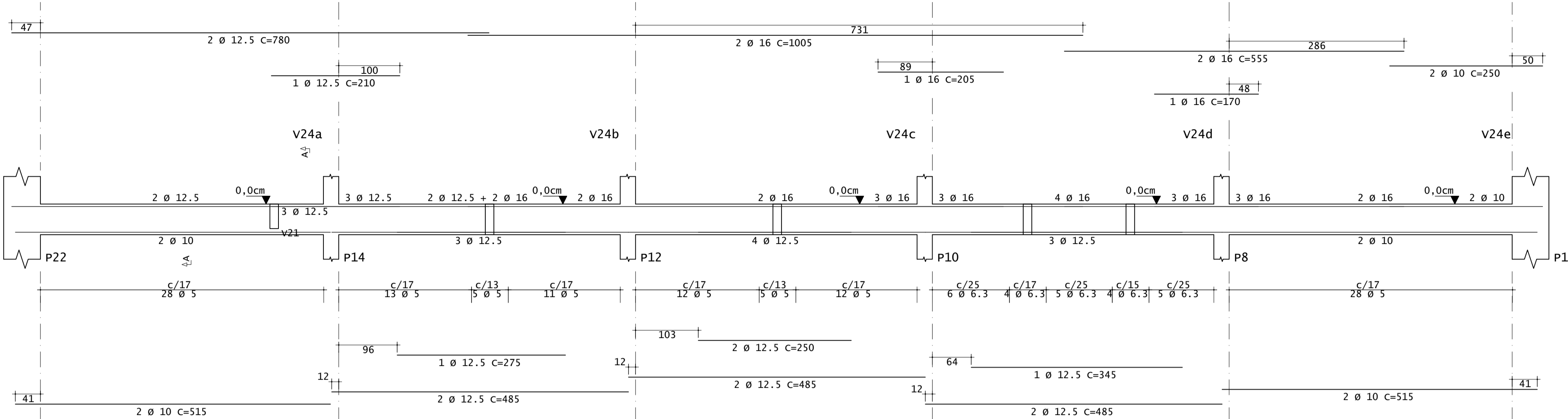
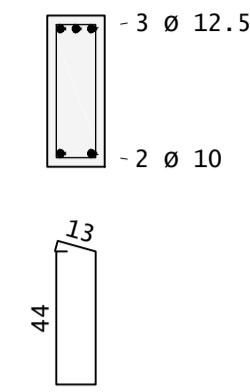


V24 19x50

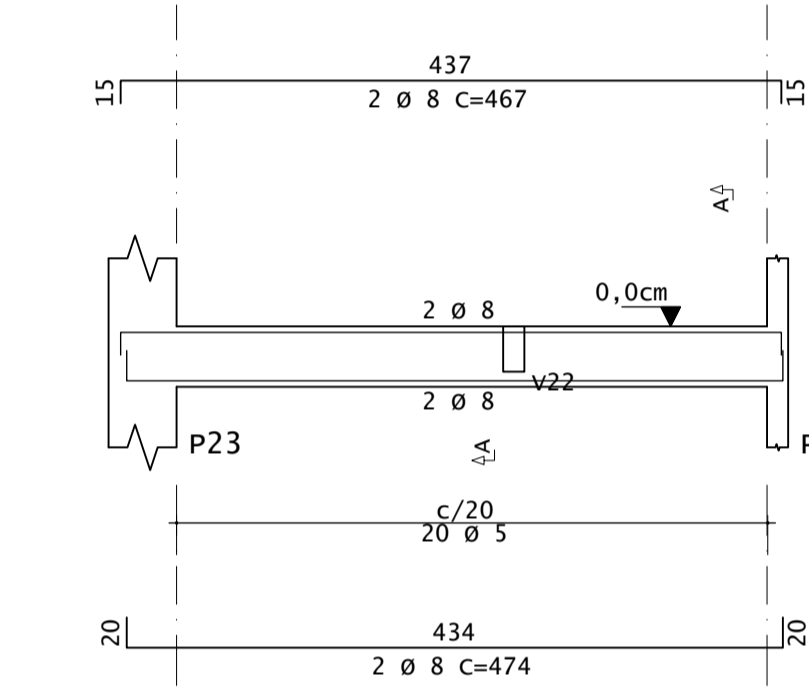


Corte A

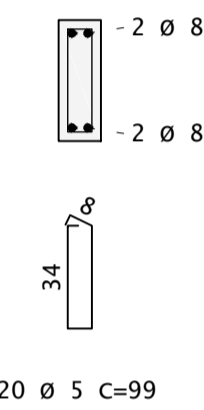


114 Ø 5 C=129
24 Ø 6.3 C=130

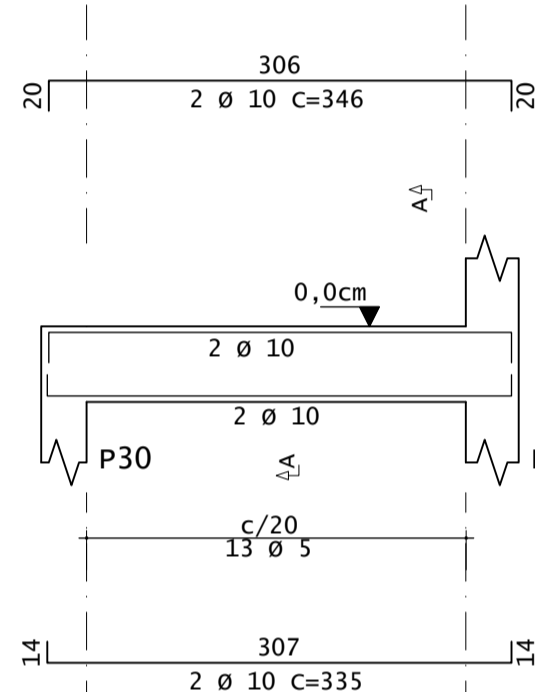
V25 14x40



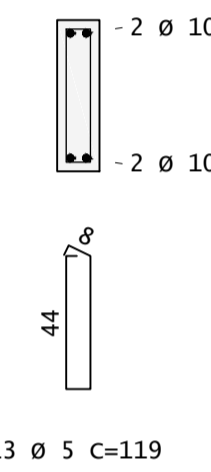
Corte A



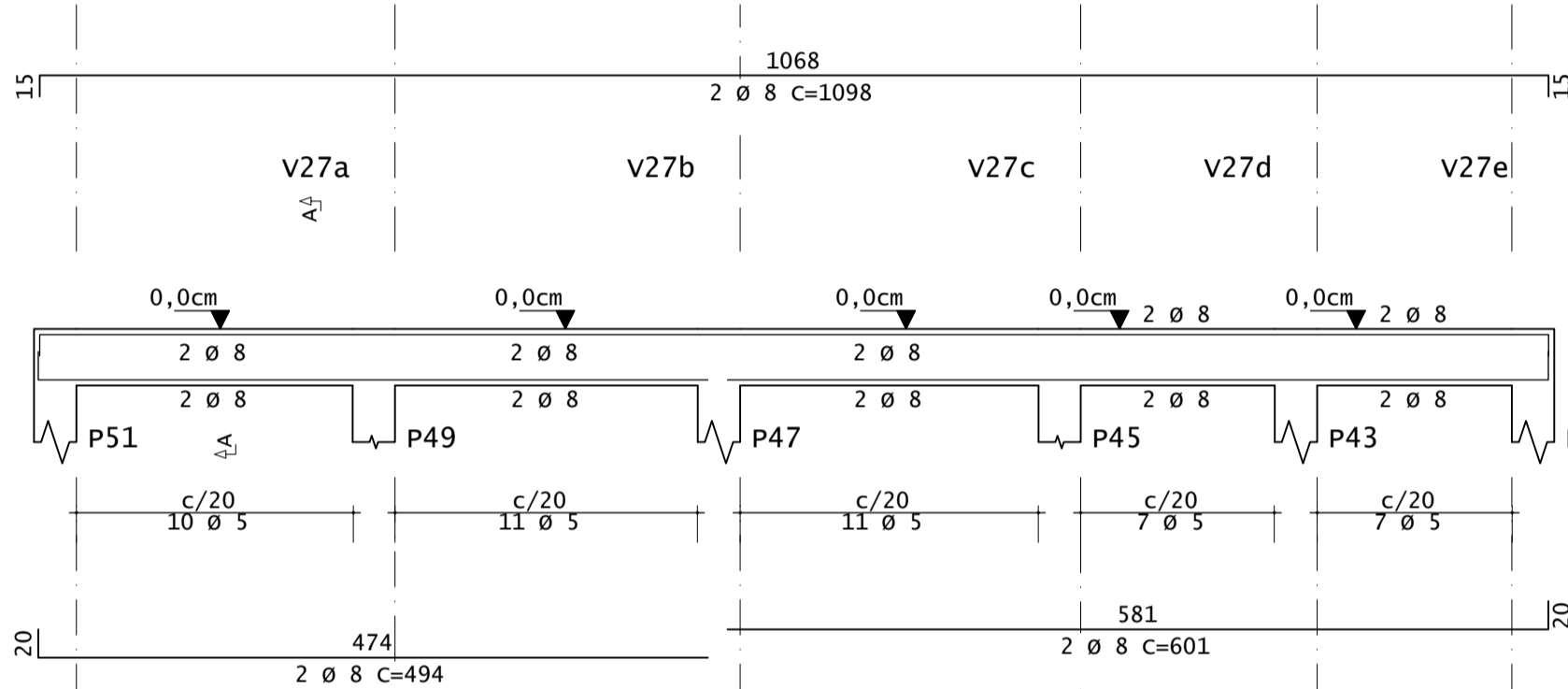
V26 14x50



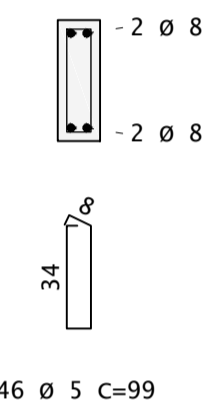
Corte A



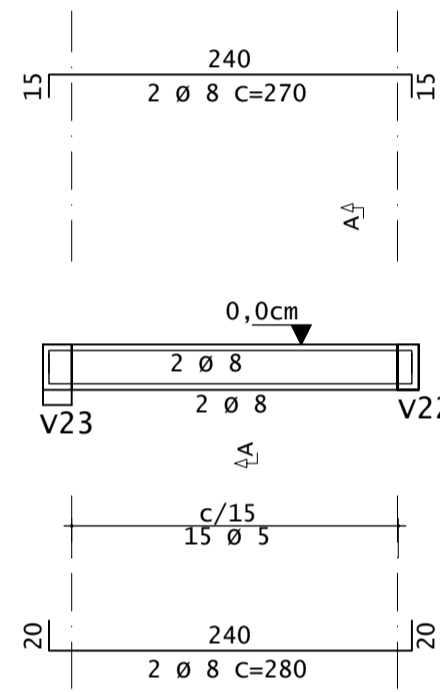
V27 14x40



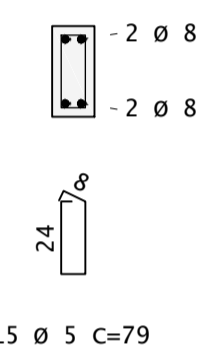
Corte A



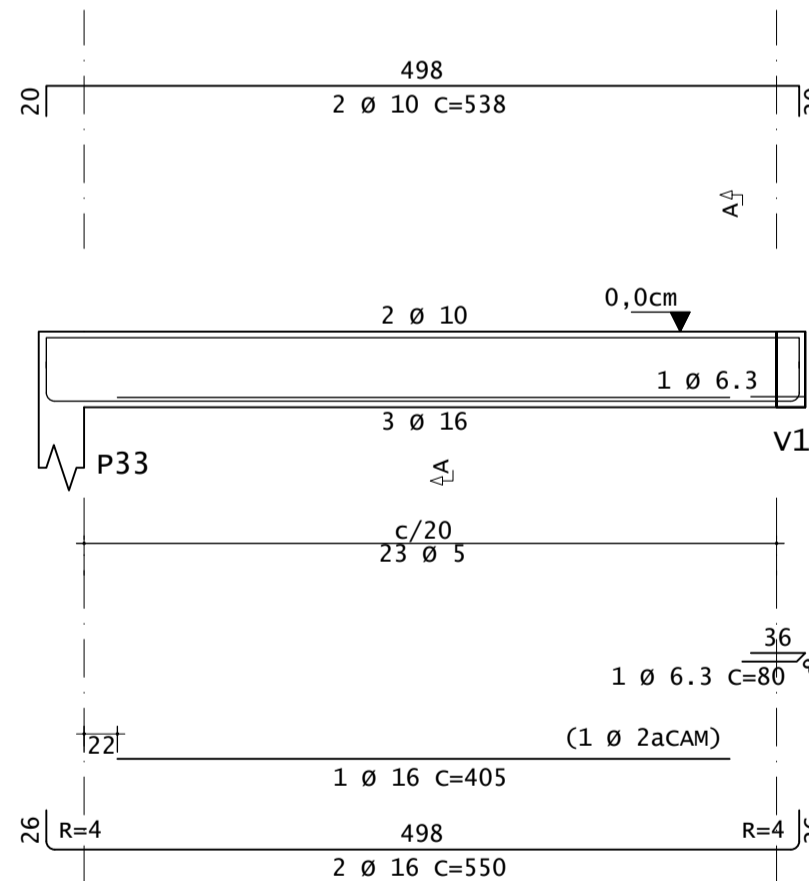
V28 14x30



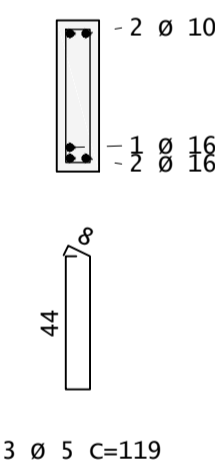
Corte A



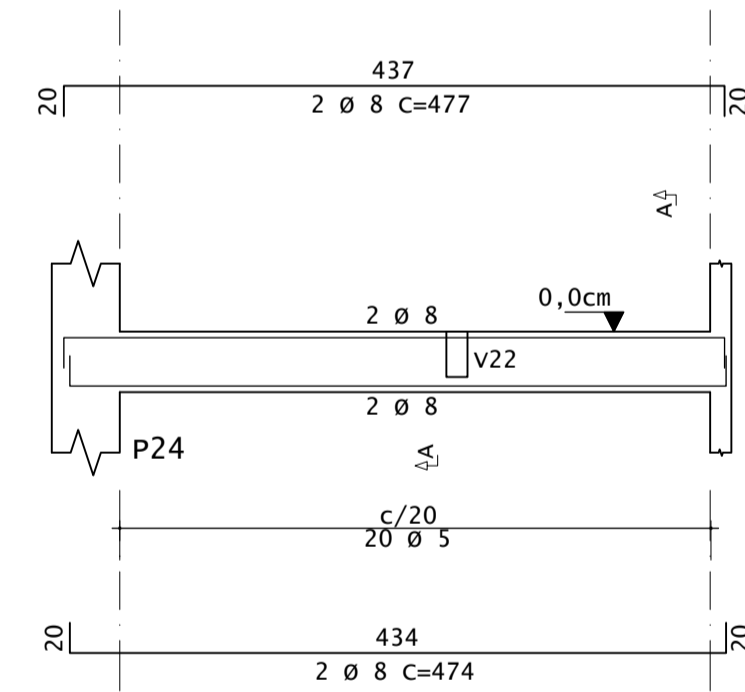
V29 14x50



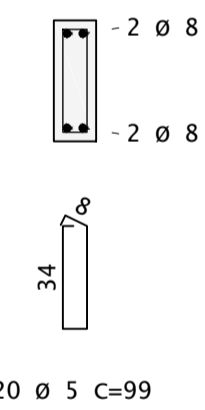
Corte A



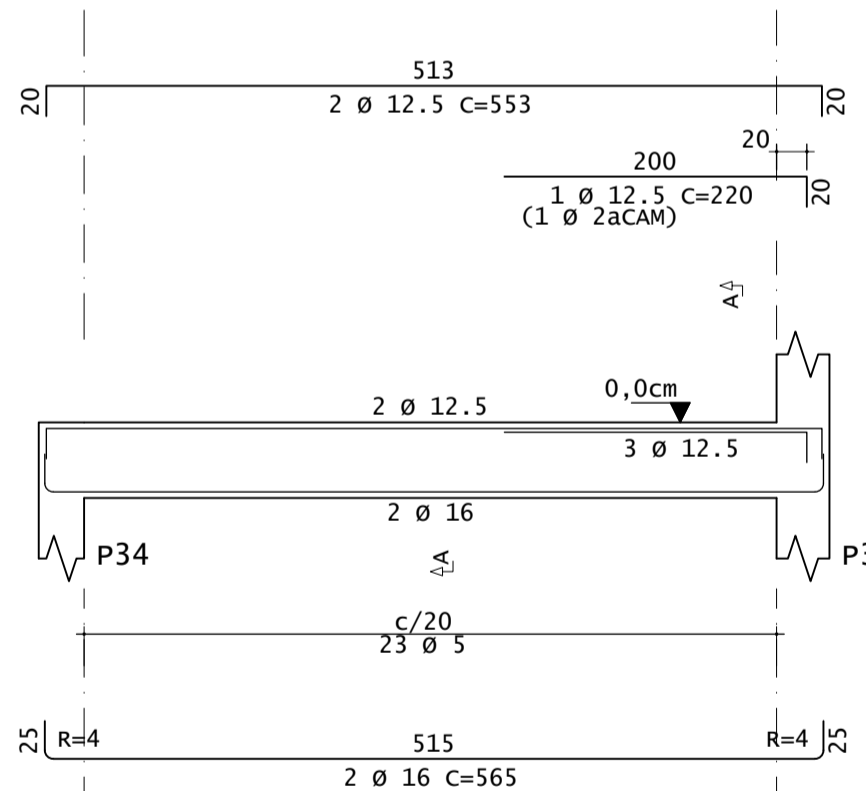
V30 14x40



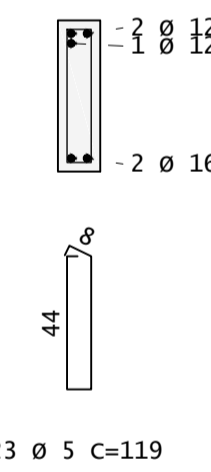
Corte A



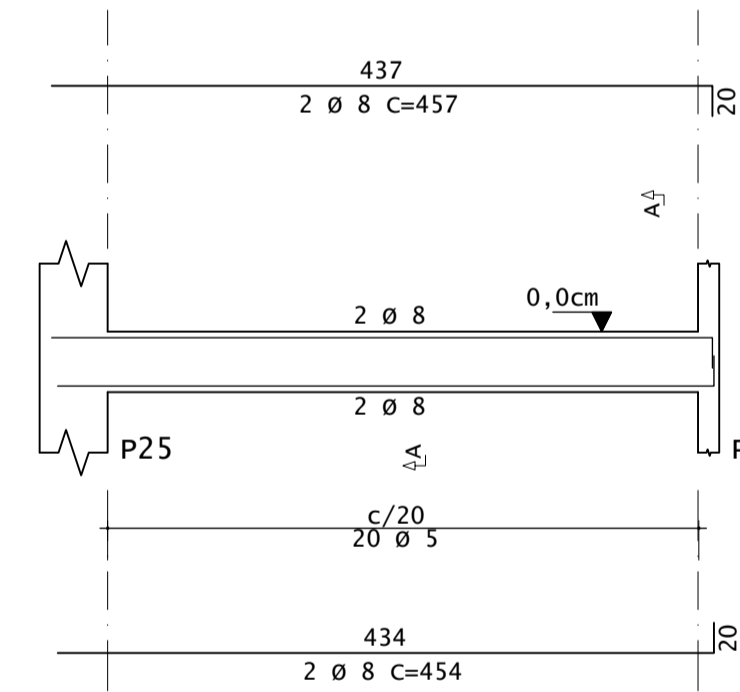
V31 14x50



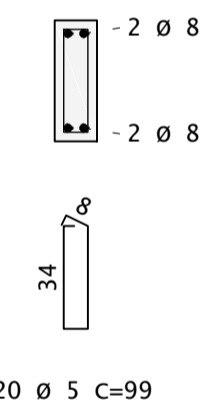
Corte A



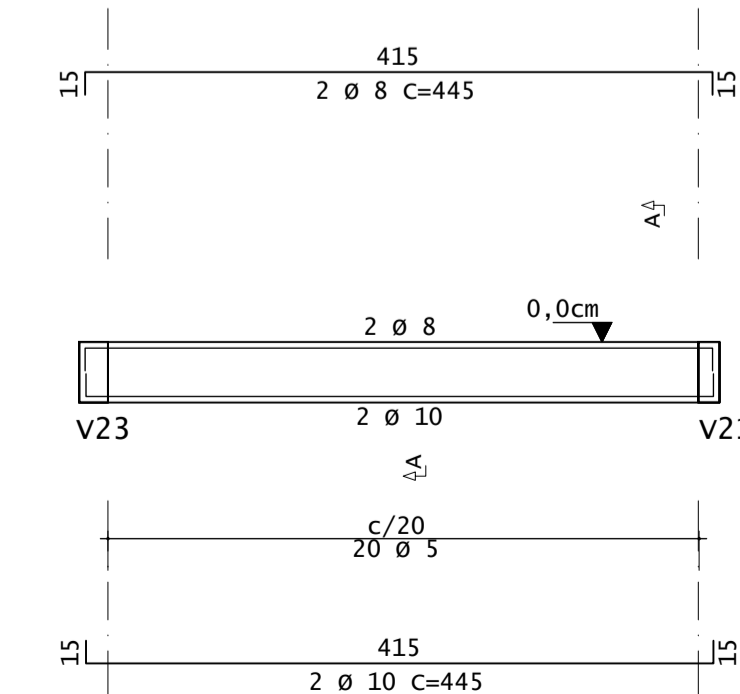
V32 14x40



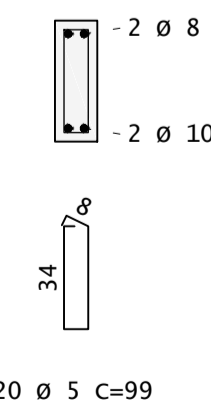
Corte A



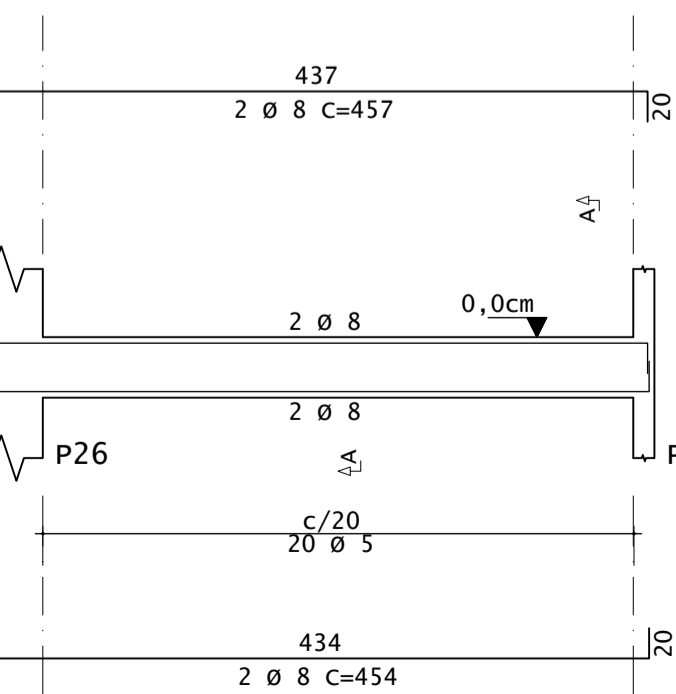
V37 14x40



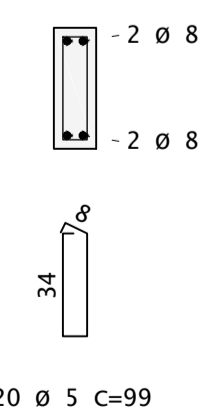
Corte A



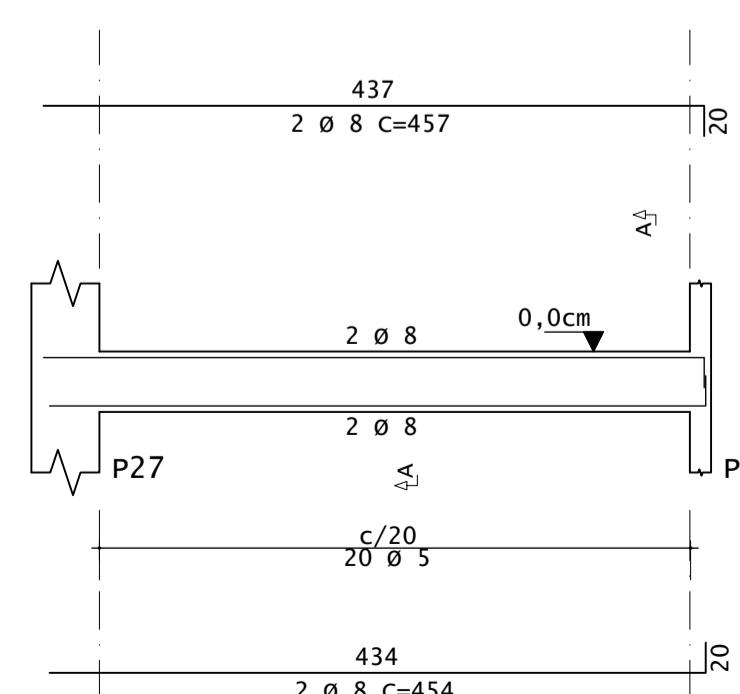
V35 14x40



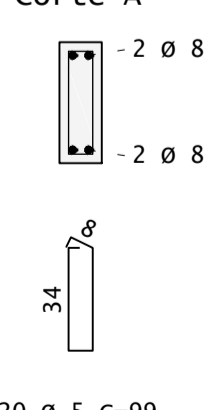
Corte A



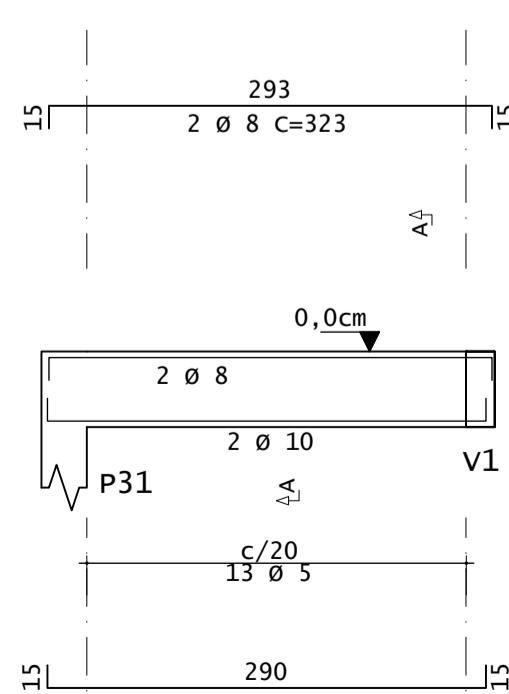
V39 14x40



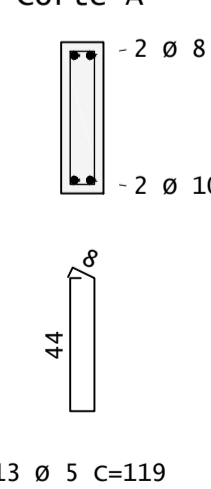
Corte A



V42 14x50



Corte A



AÇO	POS	BIT	QUANT	COMPRIMENTO		
				UNIT	TOTAL	
V24						
		mm		cm	cm	
V24	50	1	12.5	2	780	1560
	50	2	12.5	1	210	210
	50	3	16	2	1005	2010
	50	4	16	1	205	205
	50	5	16	2	555	1110
	50	6	16	1	170	170
	50	7	10	2	250	500
	50	8	10	4	515	2060
	50	9	12.5	6	485	2910
	50	10	12.5	1	275	275
	50	11	12.5	2	250	500
	50	12	12.5	1	345	345
	60	13	5	114	129	14706
	50	14	6.3	24	130	3120

50	1	8	2	467	934
50	2	8	2	474	948
60	3	5	20	99	1980

50	1	10	2	346	692
50	2	10	2	335	670
60	3	5	13	119	1547

50	1	8	2	1098	2196
50	2	8	2	494	988
50	3	8	2	601	1202
60	4	5	46	99	4554

50	1	8	2	270	540
50	2	8	2	280	560
60	3	5	15	79	1185

50	1	10	2	538	1076
50	2	16	2	550	1100
50	3	16	1	405	405
50	4	6.3	1	80	80
60	5	5	23	119	2737

50	1	8	2	477	954
50	2	8	2	474	948
60	3	5	20	99	1980

50	1	12.5	2	553	1106
50	2	12.5	1	220	220
50	3	16	2	565	1130
60	4	5	23	119	2737

50	1	8	2	457	914
50	2	8	2	454	908
60	3	5	20	99	1980

50	1	8	2	457	914
50	2	8	2	454	908
60	3	5	20	99	1980

50	1	8	2	445	890
50	2	10	2	445	890
60	3	5	20	99	1980

50	1	8	2	457	914
50	2	8	2	454	908
60	3	5	20	99	1980

50	1	8	2	323	646
50	2	10	2	320	640
60	3	5	13	119	1547

RESUMO DE AÇO					
AÇO	BIT mm	COMPR m	PESO kgf		
60	5	409	63		
50	6.3	32	8		
50	8	163	64		
50	10	65	40		
50	12.5	71	69		
50	16	61	97		
Peso Total			60	=	63 kgf
Peso Total			50	=	278 kgf

volume de concreto de VIGAS 5,50 Eixo Faces
Taxa de armadura 61.9 5,09 m3 5,09 m3
67,0 kgf/m3

RESISTÊNCIA À COMPRESSÃO DO CONCRETO, fck de 28 dias = 30 MPa.

MÓDULO DE ELASTICIDADE INICIAL DO CONCRETO, Eci = 30,6 GPa.

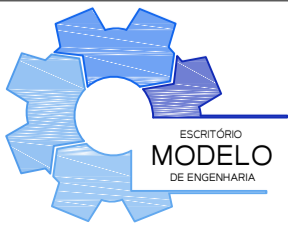
TAMANHO MÁXIMO DO AGREGADO GRAÚDO = 19 mm

CLASSE DE AGRESSIVIDADE AMBIENTAL II (CAA II).

RELAÇÃO ÁGUA/CIMENTO (a/c) MÁXIMA = 0,60.

AÇOS DAS ARMADURAS, CA50 E CA60.

ESCRITÓRIO MODELO DE ENGENHARIA - UFSM

Eng. civil André Lübeck SIAPE: 1692336 / CREARS: 140441		Eng. civil Almir Barros da S. Santos Neto SIAPE: 2300182 / CREARS: 092776	
PROJETO: REFORMA DO PRÉDIO MULTIUSO Projeto estrutural		RESPONSÁVEIS TÉCNICOS:	
ENGENHEIRO: Av. Roraima, nº 1000, Parque de exposições, Cidade Universitária, UFSM.		Revisão: 00	
PRÂNCIA: DETALHAMENTO DAS VIGAS DE BALDRAME V24 / V25 / V26 / V27 V28 / V29 / V30 / V31 V32 / V35 / V37 / V39 V42		Data: 27/08/2024	
		Escala: Indicada	
		PRÂNCIA Nº: EST 14/19	