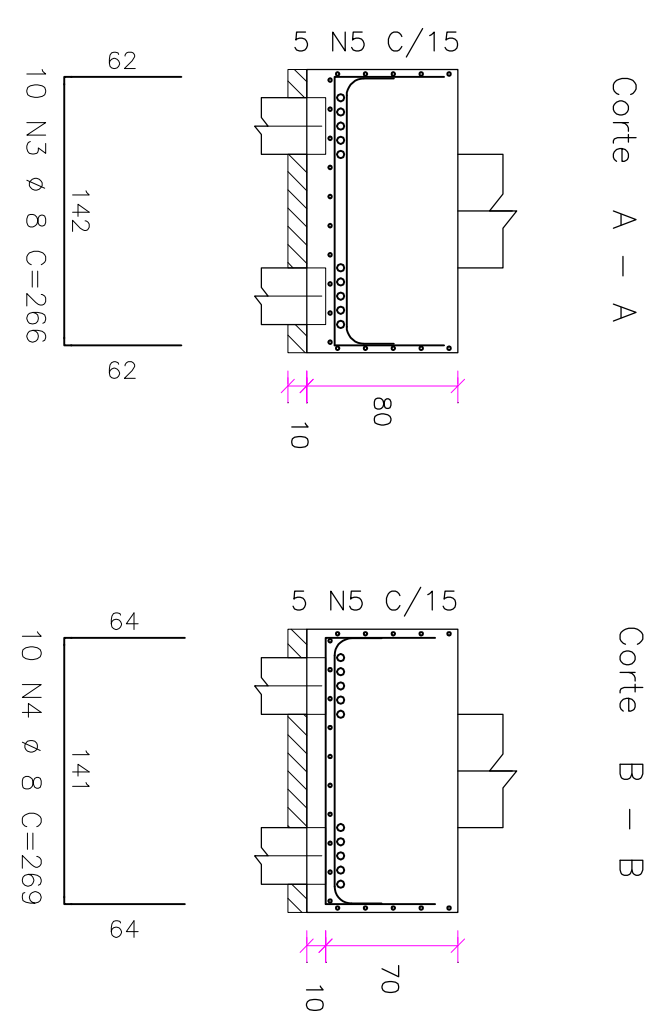
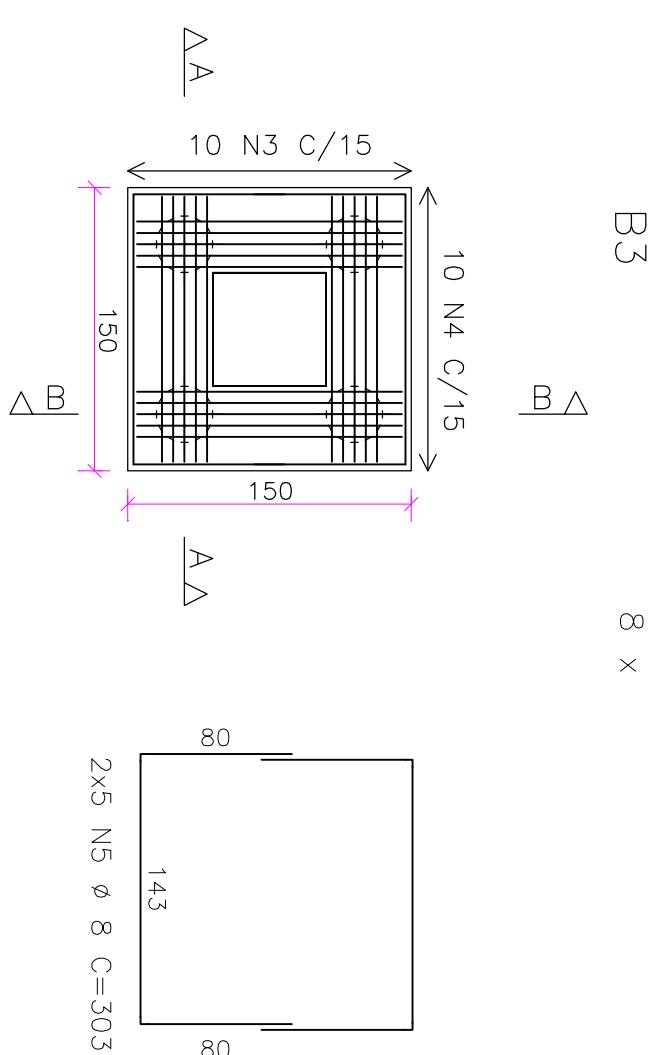
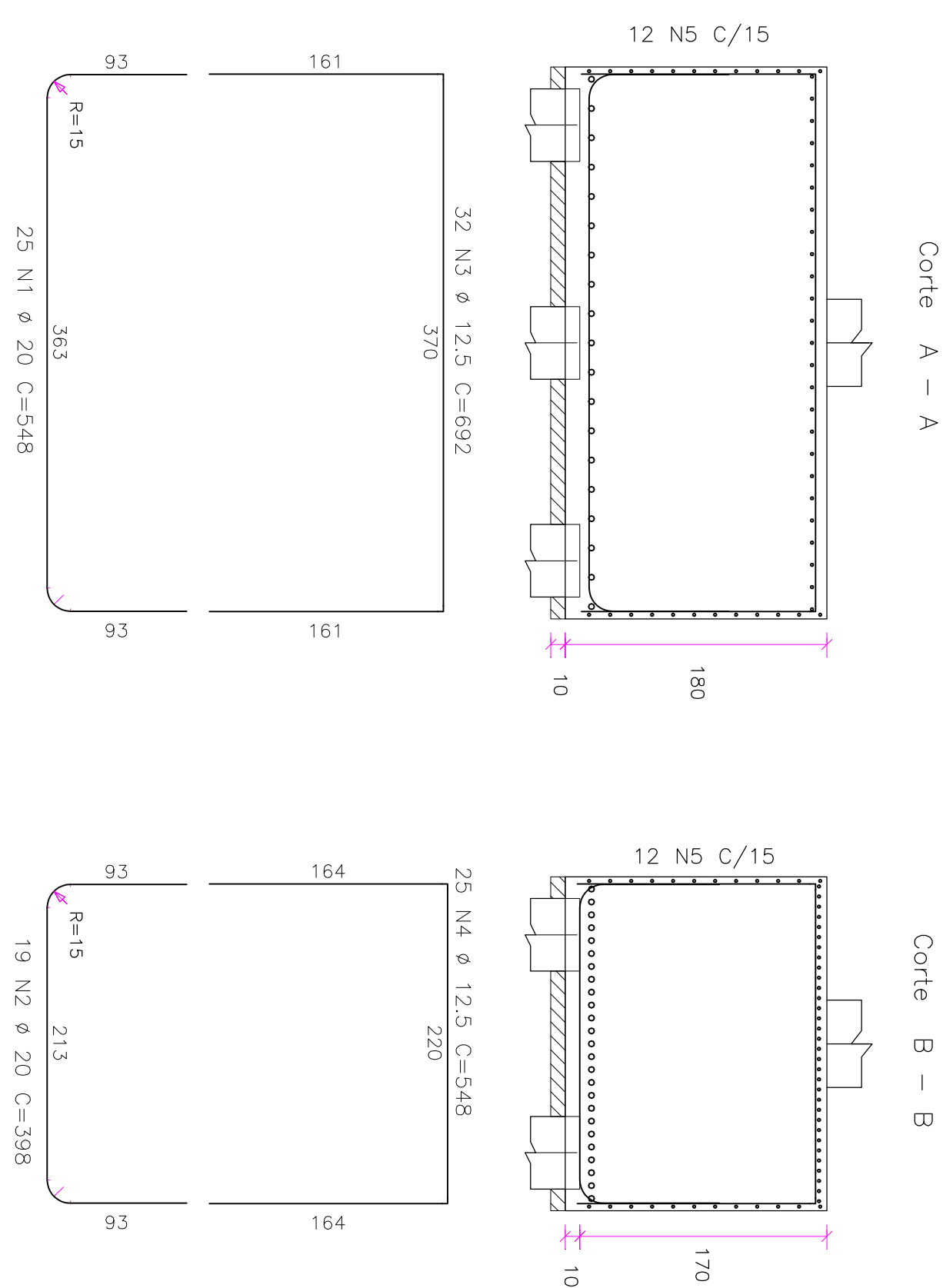
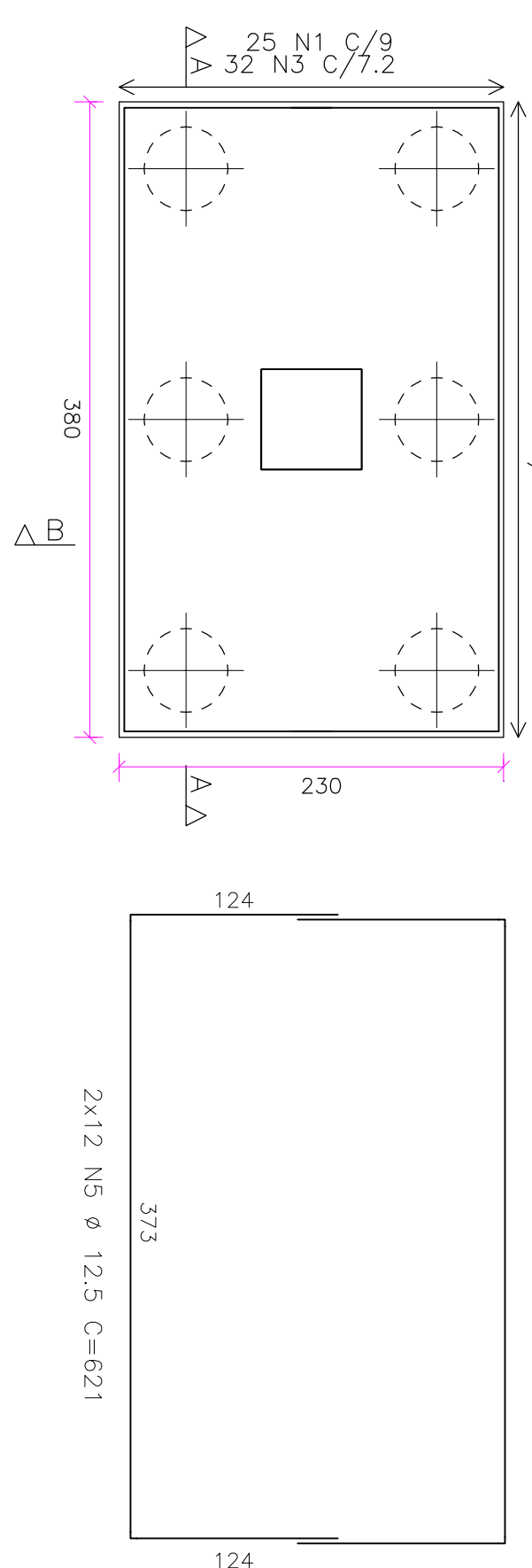
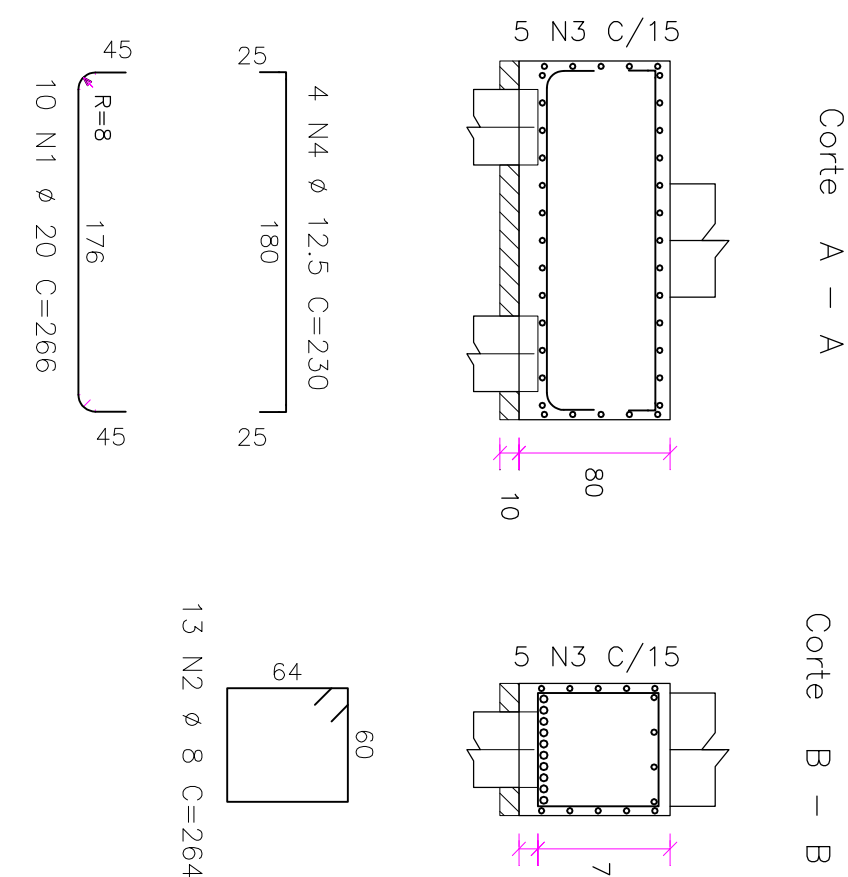
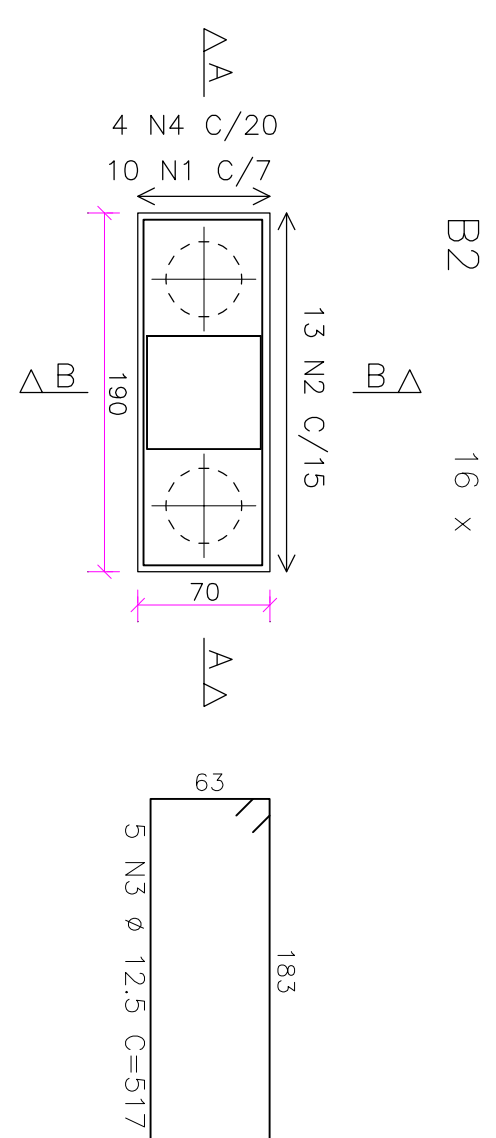
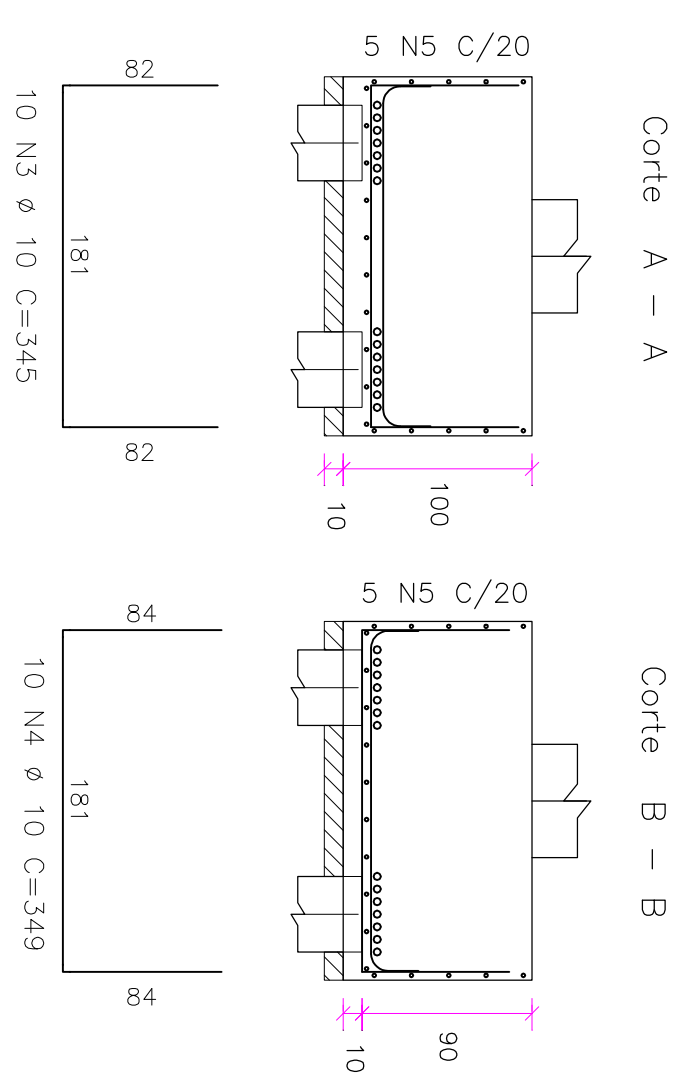
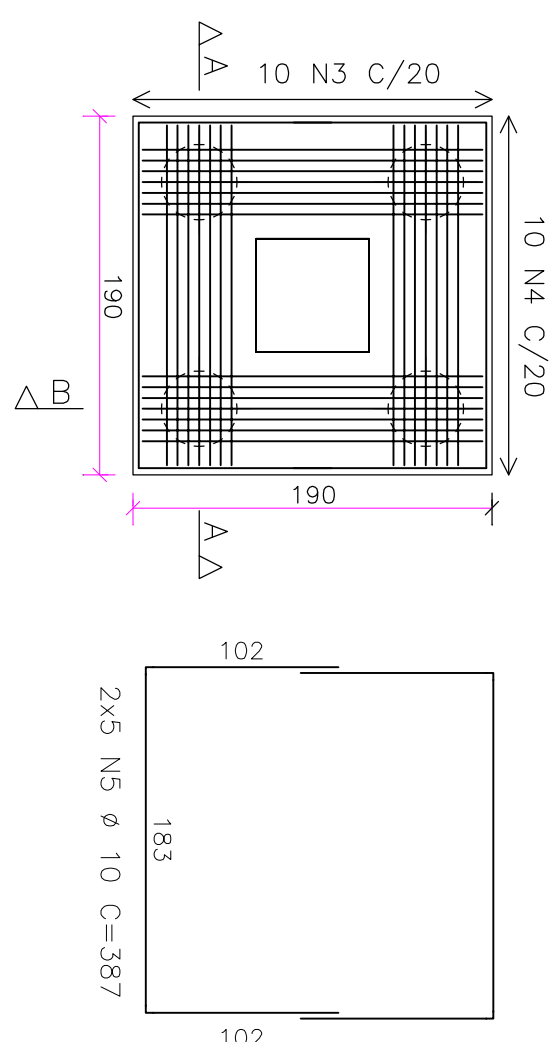
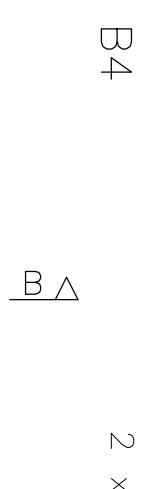
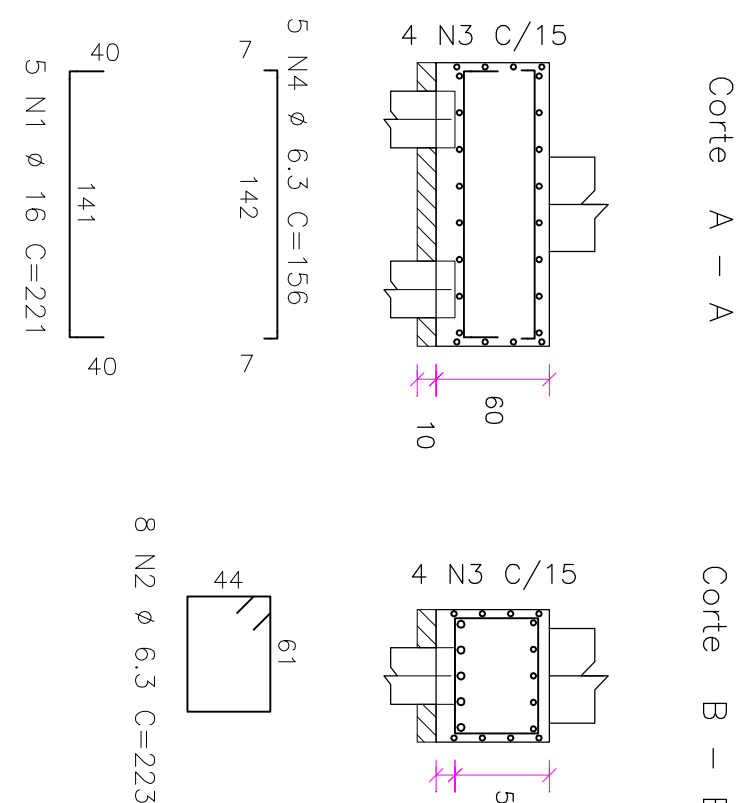
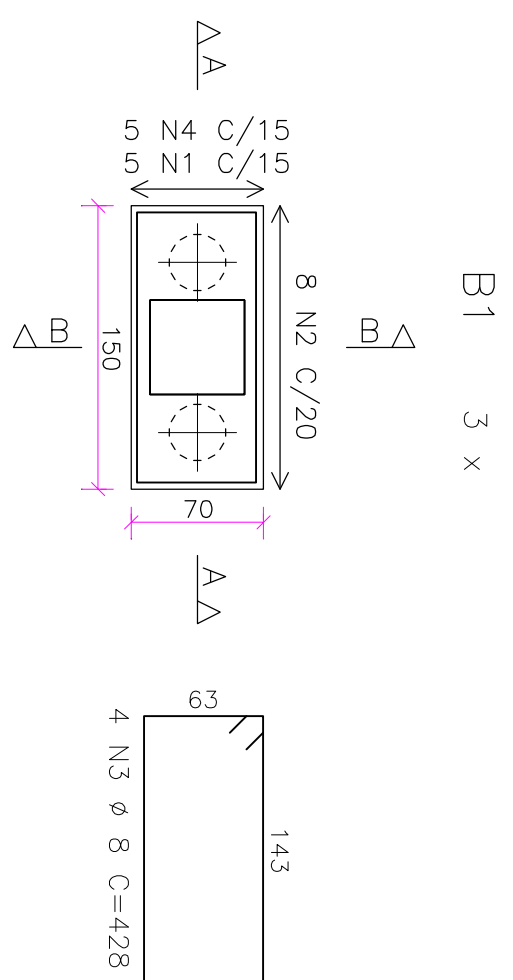




	ACO	POS	BIT	QUANT	COMMENT	UNIT	TOTAL
	(X3)		(mm)			(cm)	(cm)
B1	50	1	16	15	221	1315	
	50	2	6.3	2.2	223	5352	
	50	3	8	1.2	428	5136	
	50	4	6.3	1.5	156	2340	
B2	(X16)						
	50	1	20	160	266	42560	
	50	2	12.5	80	517	41360	
	50	3	12.5	80	237	14730	
B3	(X8)						
	50	1	20	80	837	18680	
	50	2	20	80	237	18680	
	50	3	8	80	269	21500	
	50	5	8	80	303	24240	
B4	(X2)						
	50	1	30	28	276	7758	
	50	2	10	20	345	6900	
	50	3	10	20	369	6980	
	50	4	10	20	387	7740	
B5	(X8)						
	50	1	20	200	548	106600	
	50	2	20	152	386	60456	
	50	3	12.5	125	200	106600	
	50	5	12.5	192	621	112922	
B6	(X2)						
	50	1	16	16	431	6886	
	50	2	16	4	317	13948	
	50	3	8	24	538	12912	
	50	4	8	46	428	19724	
	50	5	6.3	21	569	18560	
B7	(X2)						
	50	1	20	58	608	21888	
	50	2	11.5	58	374	21692	
	50	3	10	40	789	34230	
	50	5	10	40	677	27080	
B8	(X12)						
	50	1	10	30	207	7452	
	50	2	10	36	211	7596	
	50	3	6.3	48	225	10800	

RESUMO AÇO CA 50-60			
AÇO	BIT	COMPR	PESO
	(mm)	(m)	(kg)
50	6,3	321	80
50	8	1597	639
50	10	980	617
50	12,5	4939	4939
50	16	319	510
50	20	3019	7547
Peso Total			14333 kg

OBSERVAÇÃO:		
ALTERAÇÃO	DATA	REVISÃO ASSUNTO

PROPLAN
PROPLAN FALCAMENTO DE PROJETOS

R. Curioso Amante, 988, Duque de Caxias, Curitiba, / MT, CEP 78.045-330
fone / fax: (65) 3332 - 3669 aquatrop@aquatropjetos.com
www.aquatropjetos.com

PROJETO EXECUTIVO PROJETO DE ESTRUTURA DE CONCRETO ARMADO	
Projeto de: UNIÃO - UNIVERSIDADE FEDERAL DO ESTADO DO RIO DE JANEIRO	
Local: AV. PAULISTA, 458, RIO DE JANEIRO-RJ	
Autor do Projeto: LÚCIO ROBERTO DE ALMEIDA Inscrição OAB/ RJ: 204.319/0 -W	Co-autores do Projeto: ANDRÉ LUIZ S. RAMOS Inscrição OAB/ RJ: 354.670 -W MÁRIO ANDRÉ DE AMORIM PAIVA Inscrição OAB/ RJ: 128.837/777