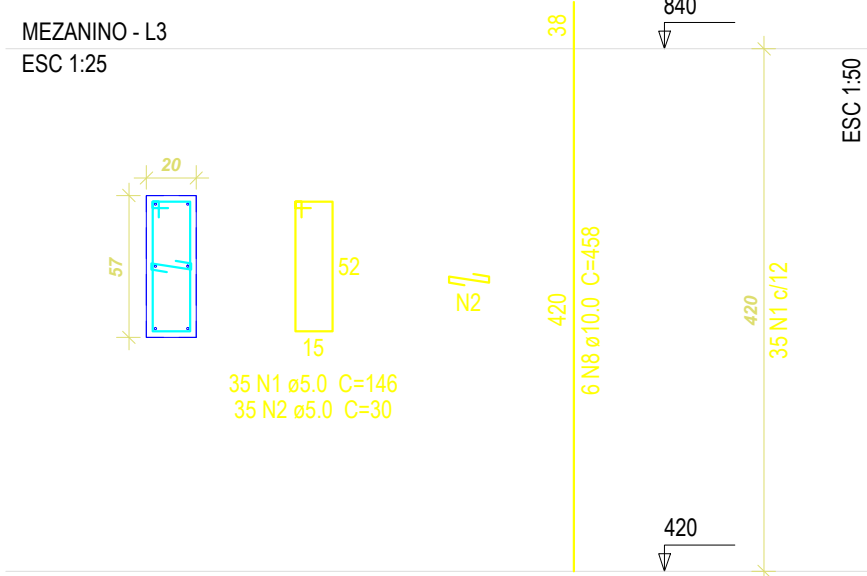
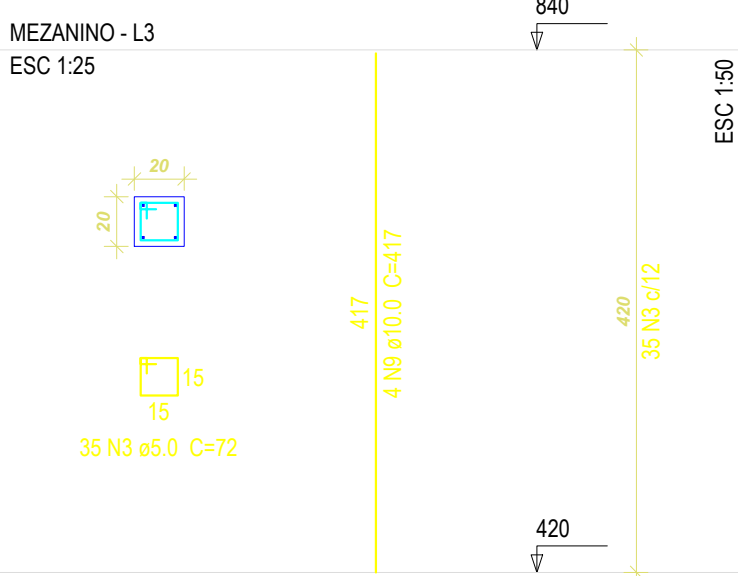


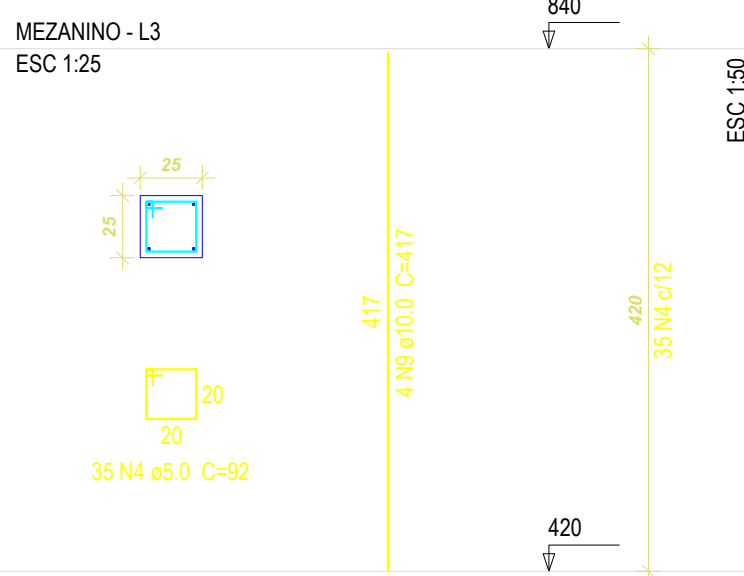
P1=P9=P12=P13=P16
P19=P20=P23=P24=P27
P28=P31=P34=P35=P38=P40=P46



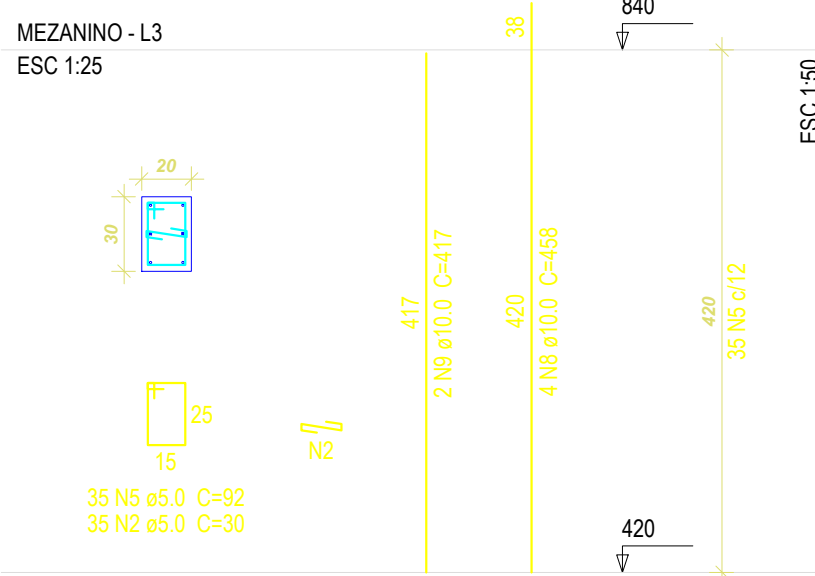
P10



P11=P14=P15=P17=P18
P21=P22=P25=P26=P29
P33=P36=P41



P2



Relação do aço
Pilares que suportam o mezanino

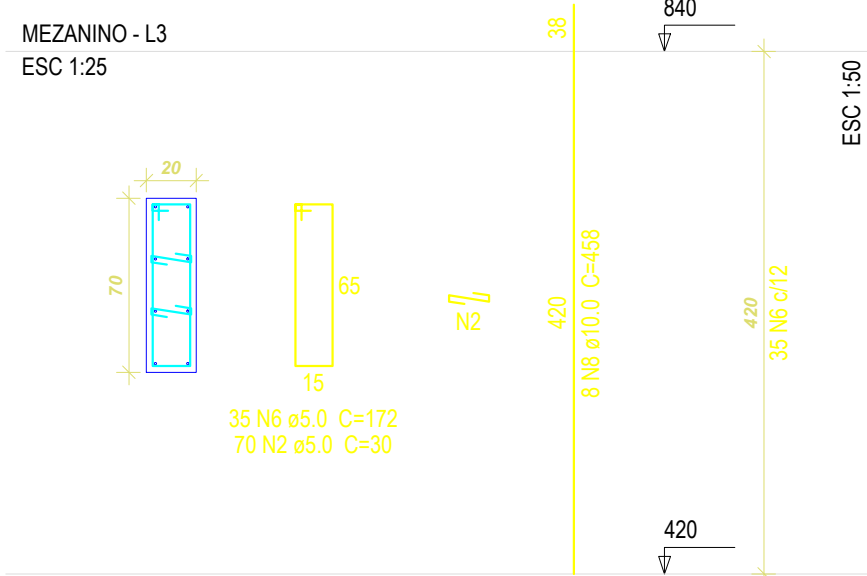
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	679	146	99134
	2	5.0	1120	30	33600
	3	5.0	35	72	2520
	4	5.0	581	92	53452
	5	5.0	35	92	3220
	6	5.0	245	172	42140
	7	5.0	84	30	2520
CA50	8	10.0	166	458	76028
	9	10.0	66	417	27522
	10	12.5	14	417	5838
	11	12.5	22	467	10274

Resumo do aço

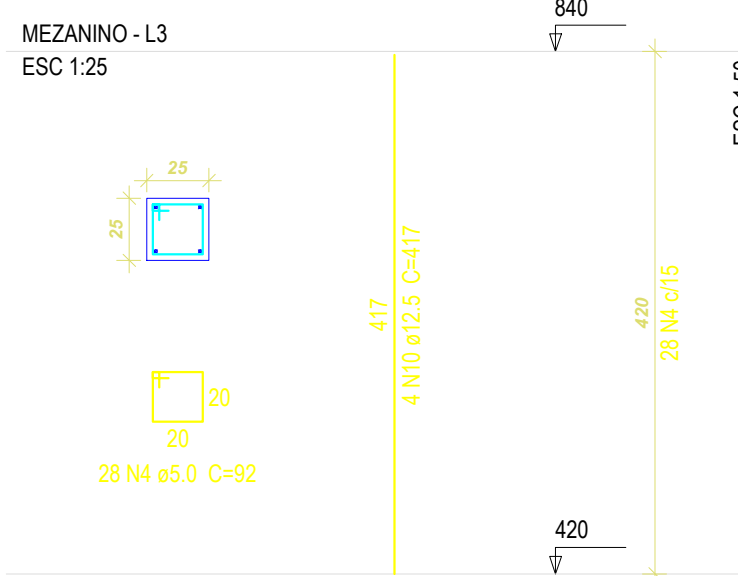
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	1035.5	638.4
	12.5	161.2	155.2
CA60	5.0	2365.9	364.7
PESO TOTAL (kg)			
CA50		793.6	
CA60		364.7	

Volume de concreto (C-25) = 18.57 m³
Área de forma = 261.24 m²

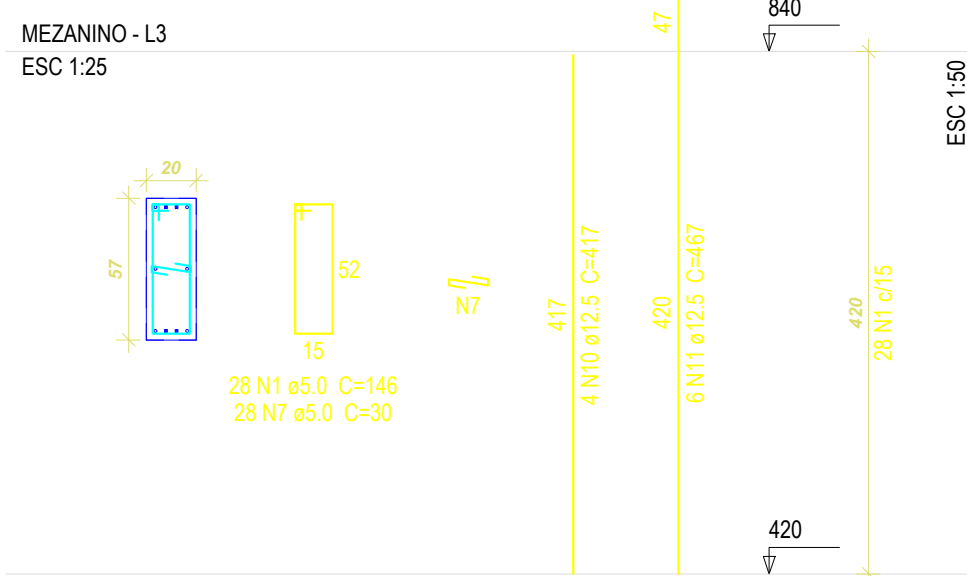
P3=P4=P5=P6=P7=P8=P45



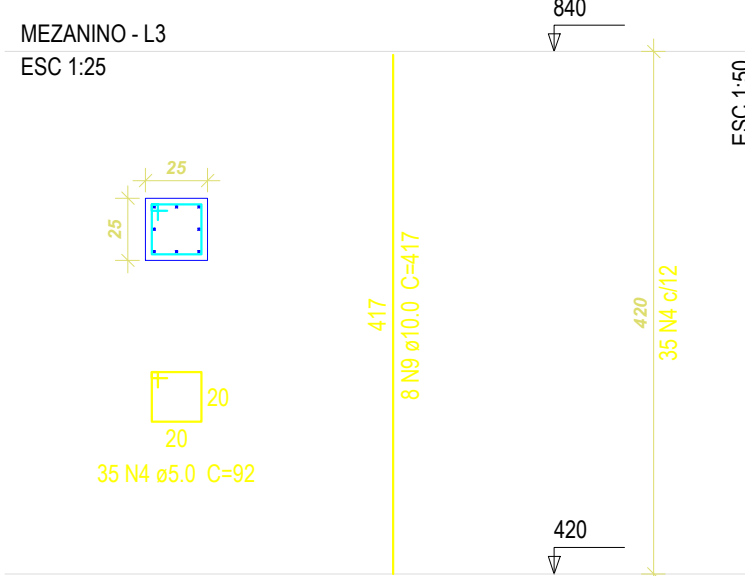
P30



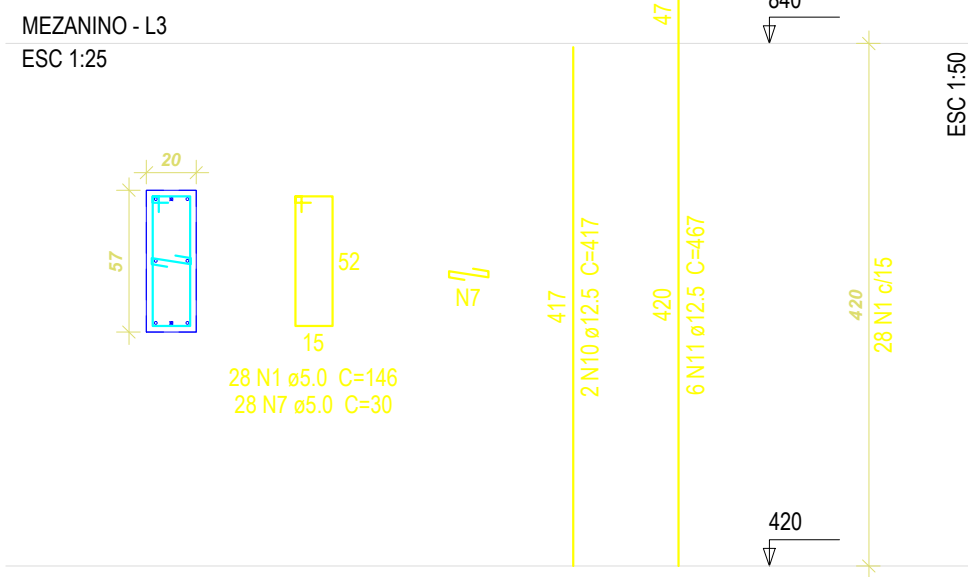
P32



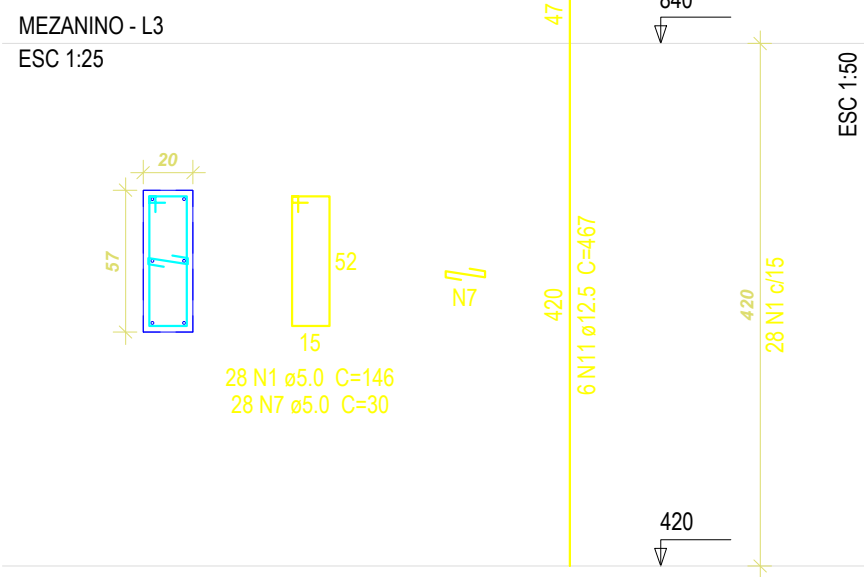
P37



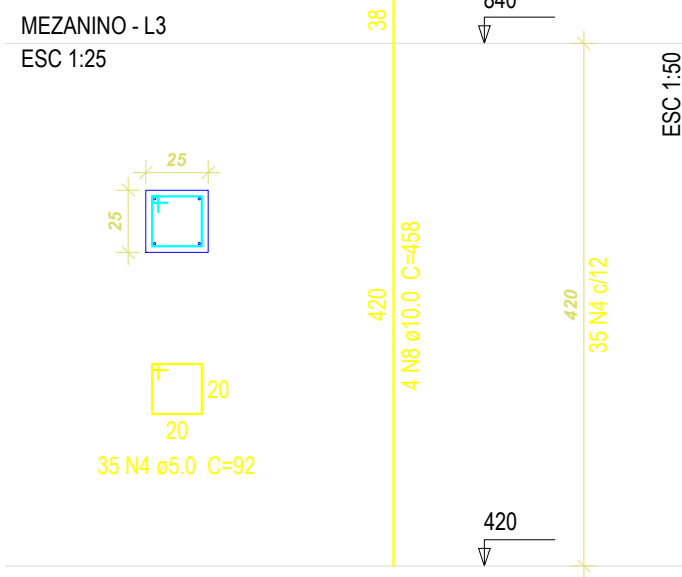
P39



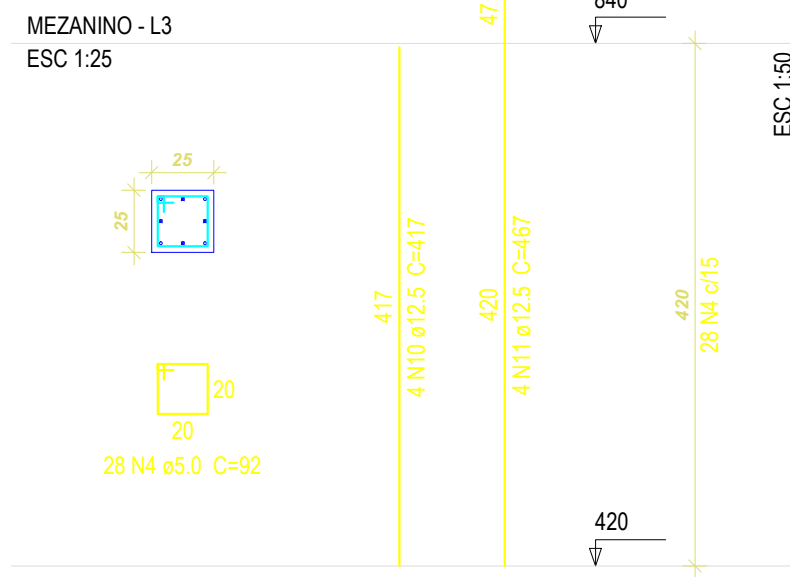
P42



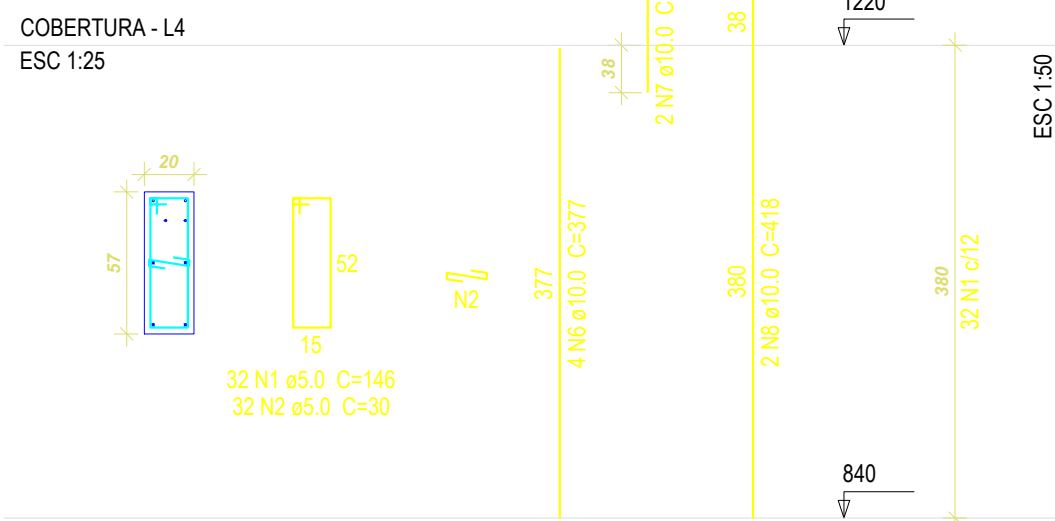
P43



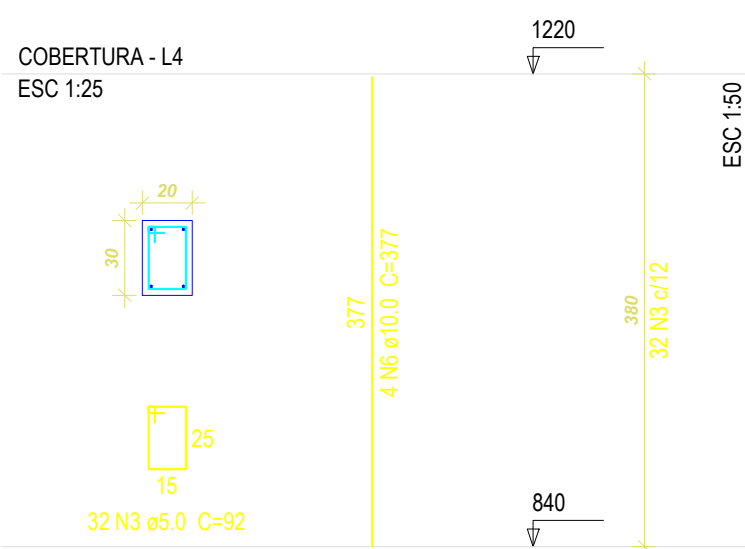
P44



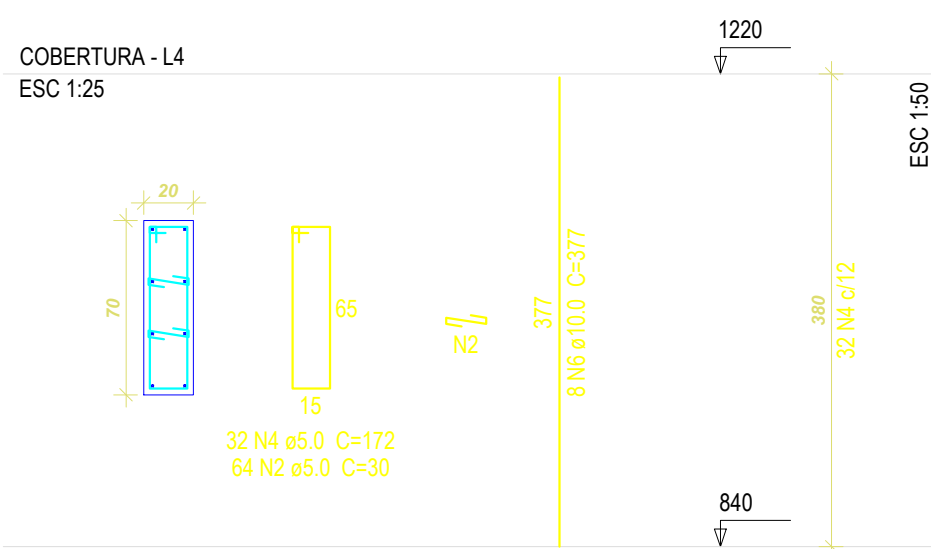
P1=P9=P12=P13=P16=P19=P20=P23=P24=P27
P28=P31=P32=P34=P35=P38=P39=P40=P42=P46



P2



P3=P4=P5=P6=P7=P8=P45



Relação do aço
Pilares que suportam a cobertura

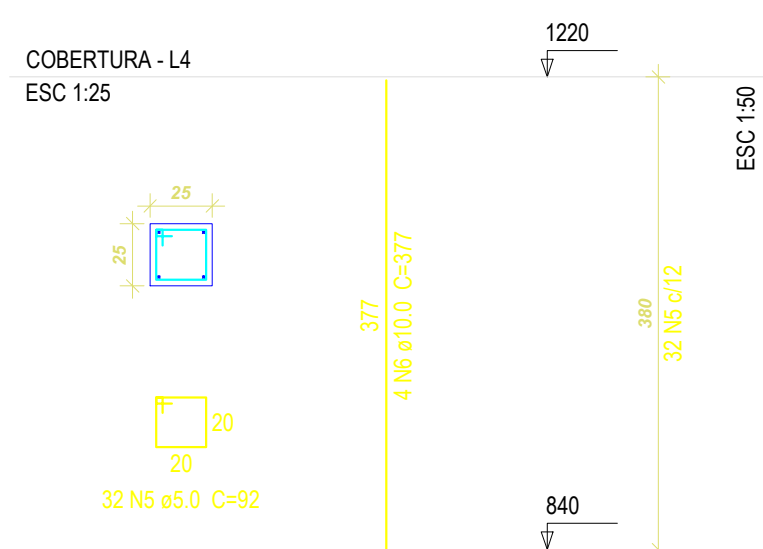
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	640	146	93440
	2	5.0	1088	30	32640
	3	5.0	32	92	2944
	4	5.0	224	172	38528
	5	5.0	58	92	5336
CA50	6	10.0	144	377	54288
	7	10.0	40	75	3000
	8	10.0	40	418	16720
	9	12.5	4	377	1508

Resumo do aço

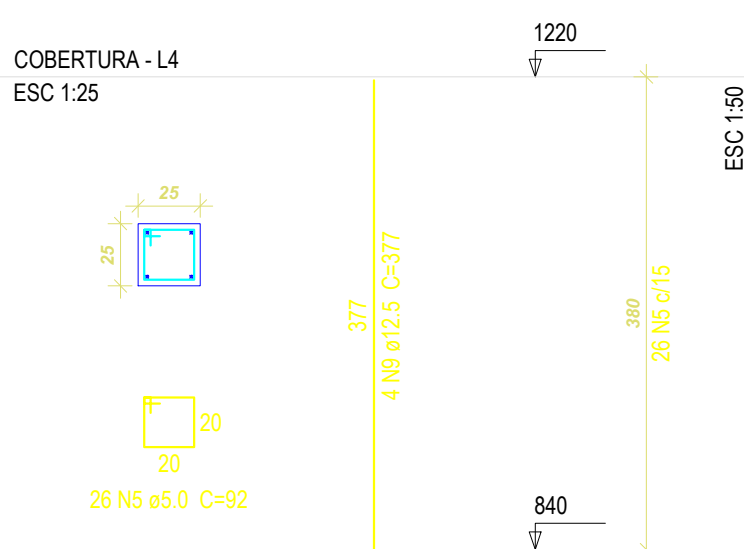
AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	10.0	740.1	456.3
	12.5	15.1	14.5
CA60	5.0	1728.9	266.5
PESO TOTAL (kg)			
CA50		470.8	
CA60		266.5	

Volume de concreto (C-25) = 13.09 m³
Área de forma = 176.32 m²

P43



P44



O1	26.09.2013	RESPONSÁVEL	PROJETO ESTRUTURAL
Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:
AS BUILT ENGENHARIA DE PROJETOS LTDA Rua João do Rosário, 1564 - Boa Vista CEP 22500-435 - Curitiba - Paraná asbuiltprojetos@gmail.com - (41)3088-4949			
FASE:			
PROJETO ESTRUTURAL			
CONFERIR MEDIDAS NA OBRA			
OBRA:			
HANGAR DA UFVJM AEROPORTO JK / DIAMANTINA			
PROPRIETÁRIO:		UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ 16.888.315/0001-57
FRANCHA:			
FERRAGEM DOS PILARES: QUE SUPORTAM O MEZANINO QUE SUPORTAM A COBERTURA			
AUTOR PROJETO:			
CARLOS HENRIQUE DE SOUZA GONÇALVES CREA 7962/D - Pr			
DETALHAMENTO/OBSERVAÇÕES:			
ESCALA:		INDICADA	DESENHO:
VERSÃO:		1	EQUIPE
DATA:		26/09/2013	FOLHA:
ARQUIVO:			11/20