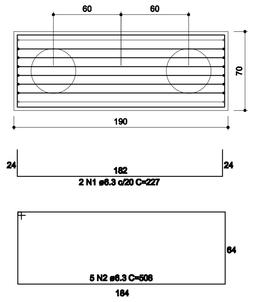
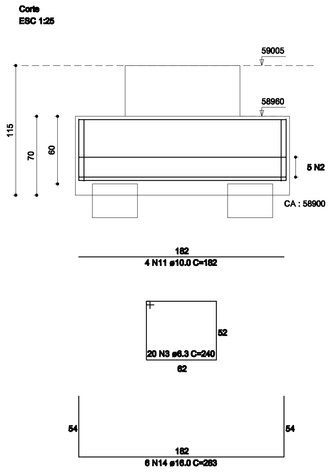
B2=B3=B4=B5=B7=B16=B23
2ø40

Planta
ESC 1:25

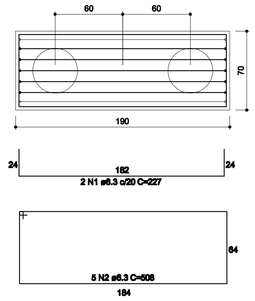


Corte
ESC 1:25

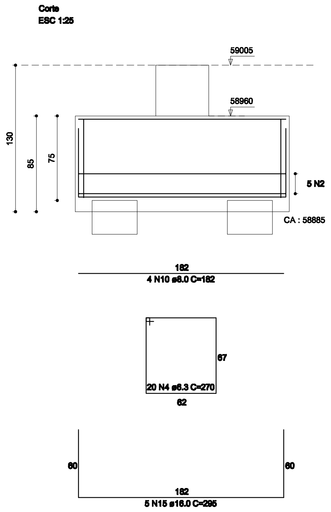


B8=B9=B10=B11=B15=B26
2ø40

Planta
ESC 1:25

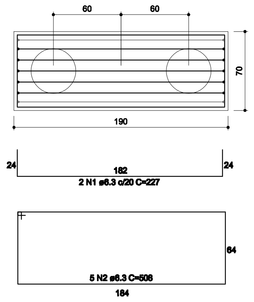


Corte
ESC 1:25

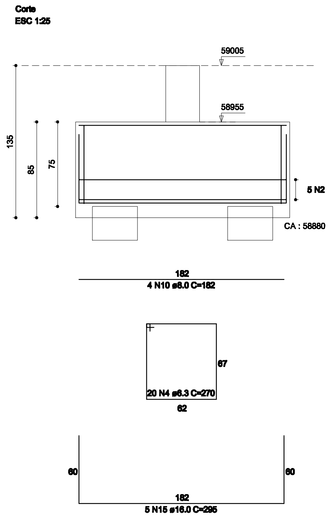


B12
2ø40

Planta
ESC 1:25



Corte
ESC 1:25



RELAÇÃO DO AÇO

7x85 B12 6x815
B18 B24 6x832
B33

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
50	1	6.3	30	227	6810
	2	6.3	75	508	38100
	3	6.3	160	240	38400
	4	6.3	140	270	37800
	5	6.3	20	187	3740
	6	6.3	50	408	20400
	7	6.3	40	142	5680
	8	6.3	144	220	31680
	9	6.3	16	250	4000
	10	8.0	28	182	5096
	11	10.0	32	182	5824
	12	10.0	4	213	852
	13	12.5	44	230	10120
	14	16.0	48	283	13584
	15	16.0	35	295	10325

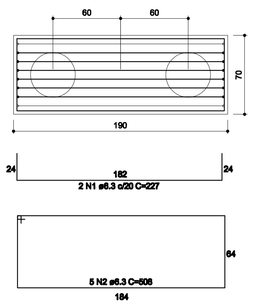
RESUMO DO AÇO

AÇO	DIAM	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	1865.0	502.8
	8.0	51.0	22.2
	10.0	66.8	45.3
	12.5	101.3	107.4
	16.0	238.8	415.0
PESO TOTAL			
CA50	1092.8		

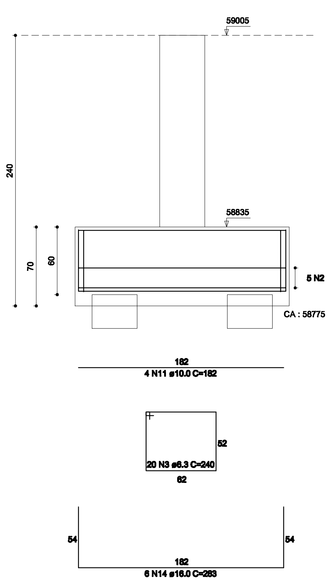
Vol. de concreto total =21.26 m³
Área de forma total = 90.09 m²

B24
2ø40

Planta
ESC 1:25

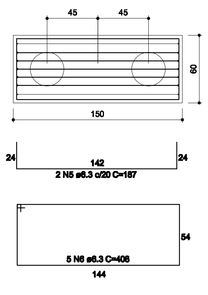


Corte
ESC 1:25

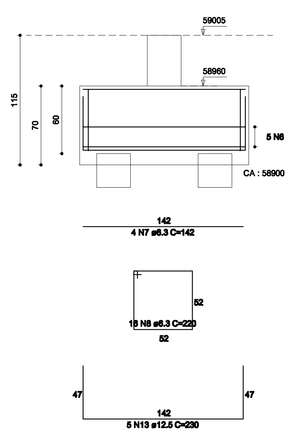


B13=B19=B20=B22=B25=B30=B31=B32
2ø30

Planta
ESC 1:25

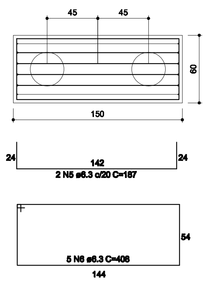


Corte
ESC 1:25

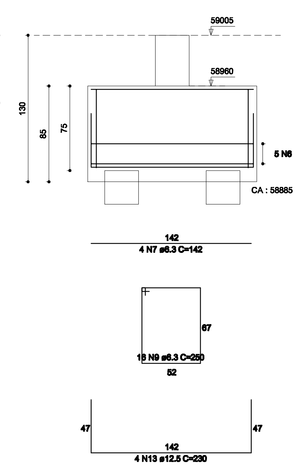


B33
2ø30

Planta
ESC 1:25

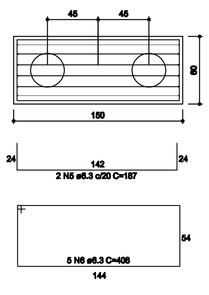


Corte
ESC 1:25

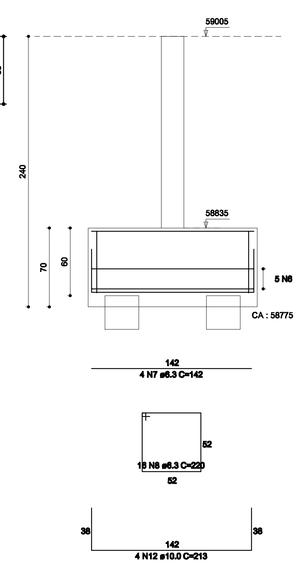


B18
2ø30

Planta
ESC 1:25



Corte
ESC 1:25



NOTAS
1 - Concreto fck >= 25MPa (C25)
2 - Cobrimento mínimo das armaduras: Vigas = 3cm Pilares = 3cm Lajes = 2,5cm
3 - Abatimento (slump) máx.: 8cm
4 - Fator água/cimento máx.: 0,55
5 - As formas devem estar totalmente limpas e saturadas com água antes da concretagem
6 - Dimensões e cotas em cm bitolas em mm.

REV.	DATA	DESCRIÇÃO DA REVISÃO

ATENÇÃO
A execução de qualquer serviço ou obra deverá ser precedida de projeto específico, elaborado por profissional habilitado, com a devida ART recolhida.

NÚCLEO DE GERENCIAMENTO DE PROJETOS DE OBRAS
Pró-reitoria de Desenvolvimento Universitário
UNIVERSIDADE ESTADUAL DE CAMPINAS

OBRA: LABORATÓRIO KYATERA / CONSTRUÇÃO
LOCAL: INSTITUTO DE FÍSICA - AV. BERTRAND RUSSEL - UNICAMP
CÓDIGO DA OBRA: IFGWkya

CBR - Engenharia S/S Ltda
Rua Botafogo 280, cj. 33-Menino Deus-Porto Alegre-RS
CEP 90160-050 - Tel/Fax (51)3233-3188

Autor(es) do Projeto: Eng. Paulo Loeck
CREA: 35 534- D
DATA:
VISTO:

REFERÊNCIA: PROJETO ESTRUTURAL
BLOCOS DA FUNDAÇÃO - 2 / 2

DATA: 01/01/2008
DESENHO:
ARQUIVO: IFGWkya_EST10_Blocos 2_R00.dwg
ESCALA: INDICADA

ESTR
10/28