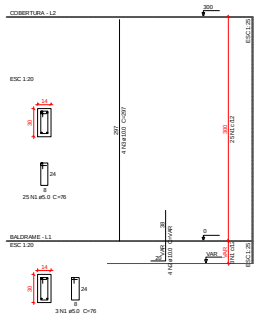
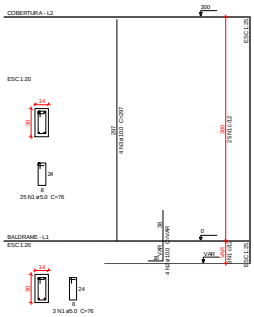
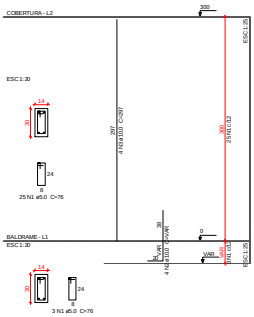
P21



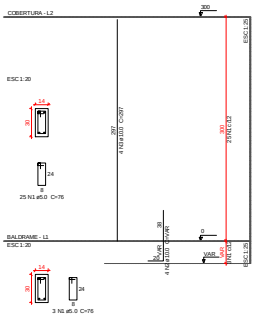
P22



P23



P24



Relação do aço

P21 P22 P23 P24

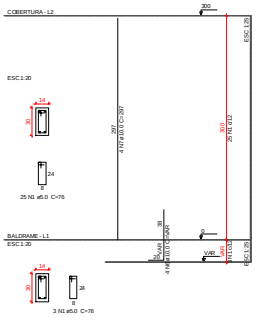
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	113	76	8613
CA50	2	10.0	16	VAR	VAR
	3	10.0	16	297	4752

Resumo do aço

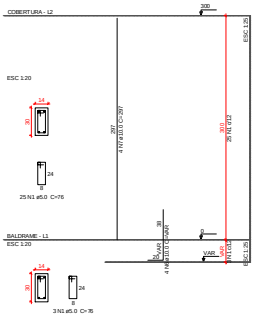
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA60	10.0	61.3	41.6
CA50	5.0	85.2	14.4
PESO TOTAL			
CA60	41.6		
CA50	14.4		

Vol. de concreto total (C-25) = 0.55 m³
Área de forma total = 11.62 m²

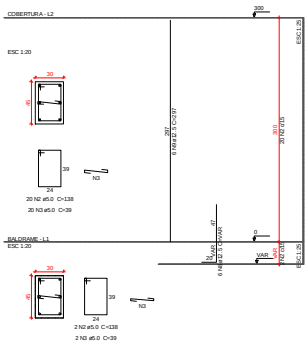
P25



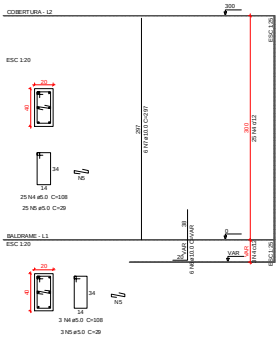
P26



P27



P28



Relação do aço

P25 P26 P27 P28

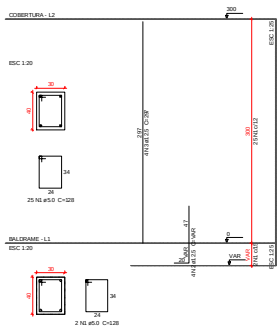
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	56	76	4256
	2	5.0	22	138	3036
	3	5.0	22	38	858
	4	5.0	28	108	3024
	5	5.0	28	29	812
CA50	6	10.0	14	VAR	VAR
	7	10.0	14	297	4158
	8	12.5	6	VAR	VAR
	9	12.5	6	297	1782

Resumo do aço

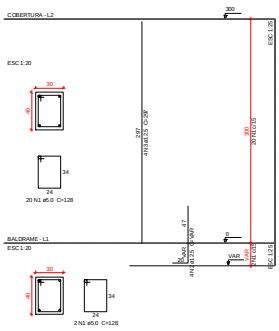
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA60	10.0	53.7	36.4
	12.5	23.5	24.9
CA50	5.0	119.9	20.1
PESO TOTAL			
CA60	61.2		
CA50	20.1		

Vol. de concreto total (C-25) = 0.99 m³
Área de forma total = 14.72 m²

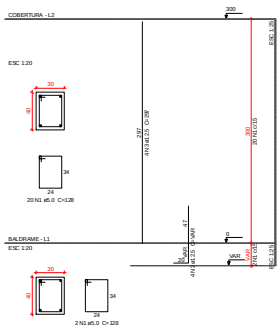
P29



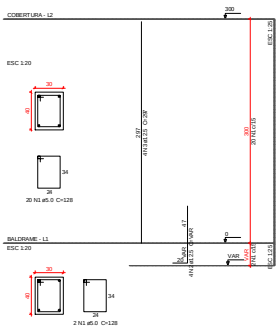
P30



P31



P32



Relação do aço

P29 P30 P31 P32

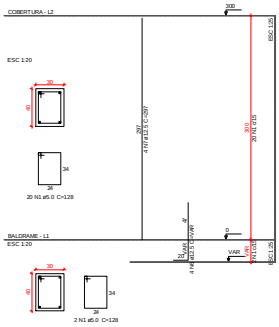
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	93	128	11904
CA50	2	12.5	16	VAR	VAR
	3	12.5	16	297	4752

Resumo do aço

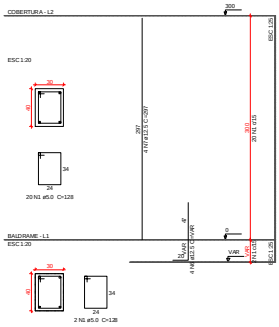
AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA60	12.5	62.6	66.3
CA50	5.0	119.1	20.2
PESO TOTAL			
CA60	66.3		
CA50	20.2		

Vol. de concreto total (C-25) = 1.58 m³
Área de forma total = 18.48 m²

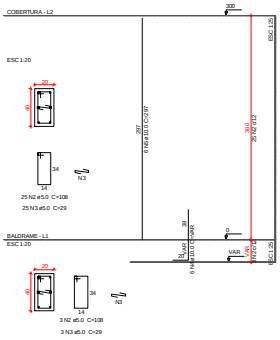
P33



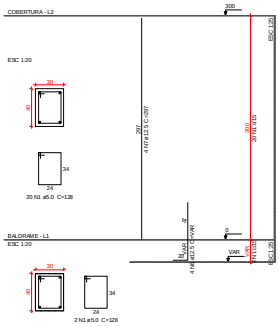
P34



P35



P36



Relação do aço

P33 P34 P35 P36

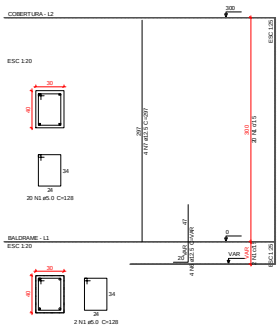
AÇO	N	DIAM	Q	UNIT (cm)
CA60	1	5.0	66	128
	2	5.0	28	108
	3	5.0	28	29
CA50	4	10.0	6	VAR
	5	10.0	6	297
	6	12.5	12	VAR
	7	12.5	12	297

Resumo do aço

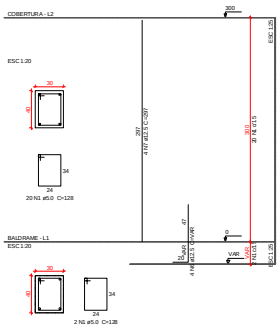
AÇO	DIAM	C.TOTAL (m)	PESO (k
CA60	10.0	23	
	12.5	47	
CA50	5.0	122.8	
PESO TOTAL			
CA60	65.3		
CA50	20.8		

Vol. de concreto total (C-25) = 1.45 m³
Área de forma total = 17.82 m²

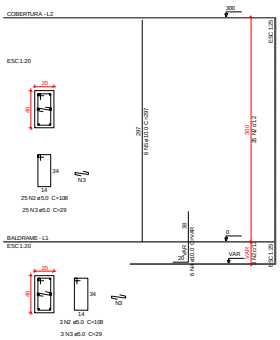
P37



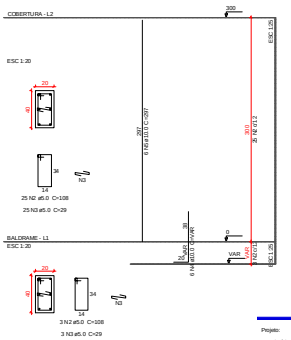
P38



P39



P40



Relação do aço

P37 P38 P39 P40

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	44	128	5632
	2	5.0	56	108	6048
	3	5.0	56	29	1624
CA50	4	10.0	12	VAR	VAR
	5	10.0	12	297	3564
	6	12.5	8	VAR	VAR
	7	12.5	8	297	2376

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA60	10.0	46	31.2
	12.5	31.5	33.1
CA50	5.0	133.1	22.6
PESO TOTAL			
CA60	64.3		
CA50	22.6		

Vol. de concreto total (C-25) = 1.32 m³
Área de forma total = 17.16 m²

Projeto: REFORMA E AMPLIAÇÃO DO GRUPO ESCOLAR DALMO EDSON SFAIR
Proprietário: PREFEITURA MUNICIPAL DE IRINEÓPOLIS
Endereço: RUA PERNAMBUCO S/N- CENTRO, IRINEÓPOLIS, 89440-000 SC

Referência: PILARES
nº: 09/14
09

Escala: INDICADA
Projeto: ESTRUTURAL
Desenho: GABRIELA
Área: 472,90m²
Data: NOV./2014

proprietários: PREFEITURA MUNICIPAL DE IRINEÓPOLIS CNPJ: 83.102.319/0001-05

responsável técnico: GABRIELA HACK DE SOUZA CREA-SC: 049.068-0 / CAU: A39416-6

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