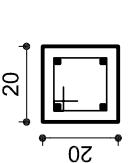


P1=P9=P10=P11

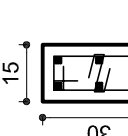
COBERTURA - L2
ESC 1:20



25 N1 ø5.0 C=68

P12

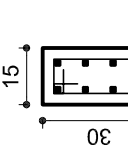
COBERTURA - L2
ESC 1:20



20 N2 ø5.0 C=78
20 N3 ø5.0 C=24

P13

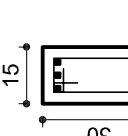
COBERTURA - L2
ESC 1:20



25 N2 ø5.0 C=78

P15

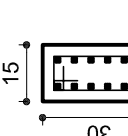
COBERTURA - L2
ESC 1:20



25 N2 ø5.0 C=78

P18

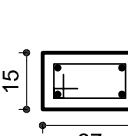
COBERTURA - L2
ESC 1:20



25 N2 ø5.0 C=78

P2=P4

COBERTURA - L2
ESC 1:20



25 N4 ø5.0 C=68

Relação do aço

4xP1	2xP2	P3
1xP5	P12	P13
P15	P18	P21
3xP22	P23	

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	100	68	6800
	2	5.0	115	78	8970
	3	5.0	20	24	480
	4	5.0	445	68	30260
CA50	5	10.0	104	287	29848
	6	10.0	14	330	4620
	7	12.5	16	287	4592

Resumo do aço

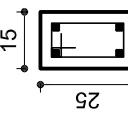
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	344.7	233.8
	12.5	46	48.7
CA60	5.0	465.1	78.9

PESO TOTAL (kg)	
CA50	282.4
CA60	78.9

Volume de concreto (C-25) = 3.07 m³
Área de forma = 64.09 m²

P21

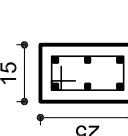
COBERTURA - L2
ESC 1:20



20 N4 ø5.0 C=68

P22=P24=P28

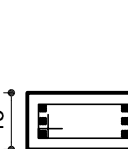
COBERTURA - L2
ESC 1:20



25 N4 ø5.0 C=68

P23

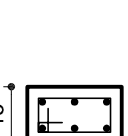
COBERTURA - L2
ESC 1:20



20 N2 ø5.0 C=78

P3

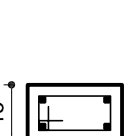
COBERTURA - L2
ESC 1:20



25 N4 ø5.0 C=68

P5=P7=P8=P14=P16=P17=P19=
P20=P25=P26=P27

COBERTURA - L2
ESC 1:20

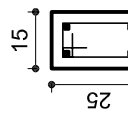


25 N4 ø5.0 C=68

PILARES TÉRREO

P2=P4=P6

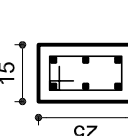
TORRE - L3
ESC 1:20



17 N1 ø5.0 C=68

P3

TORRE - L3
ESC 1:20



17 N1 ø5.0 C=68

Relação do aço

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	68	68	4624
CA50	2	10.0	18	197	3546

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	35.5	24
CA60	5.0	46.3	7.8

PESO TOTAL (kg)	
CA50	24
CA60	7.8

Volume de concreto (C-25) = 0.3 m³
Área de forma = 6.4 m²

PILARES TORRE

Prefeitura Municipal de Taquari

Estado do Rio Grande do Sul

Fone: (51)3653-6200 (6265) e-mail: planejamento@taquari.rs.com.br

Obra:Ampliação EMEF Timótheo Junqueira dos Santos	Data: Julho/2020
Descrição: Estrutural - Detalhamento Pilares - Térreo	Escala: 1:50
Endereço da obra:Estrada VRS 868 - Taquari/RS	Prancha:
Engº Sérgio Noschang CREA 152282 Responsável técnico:	05-08
Projetista: -	Área: 187.10m²

Departamento de Engenharia & Arquitetura