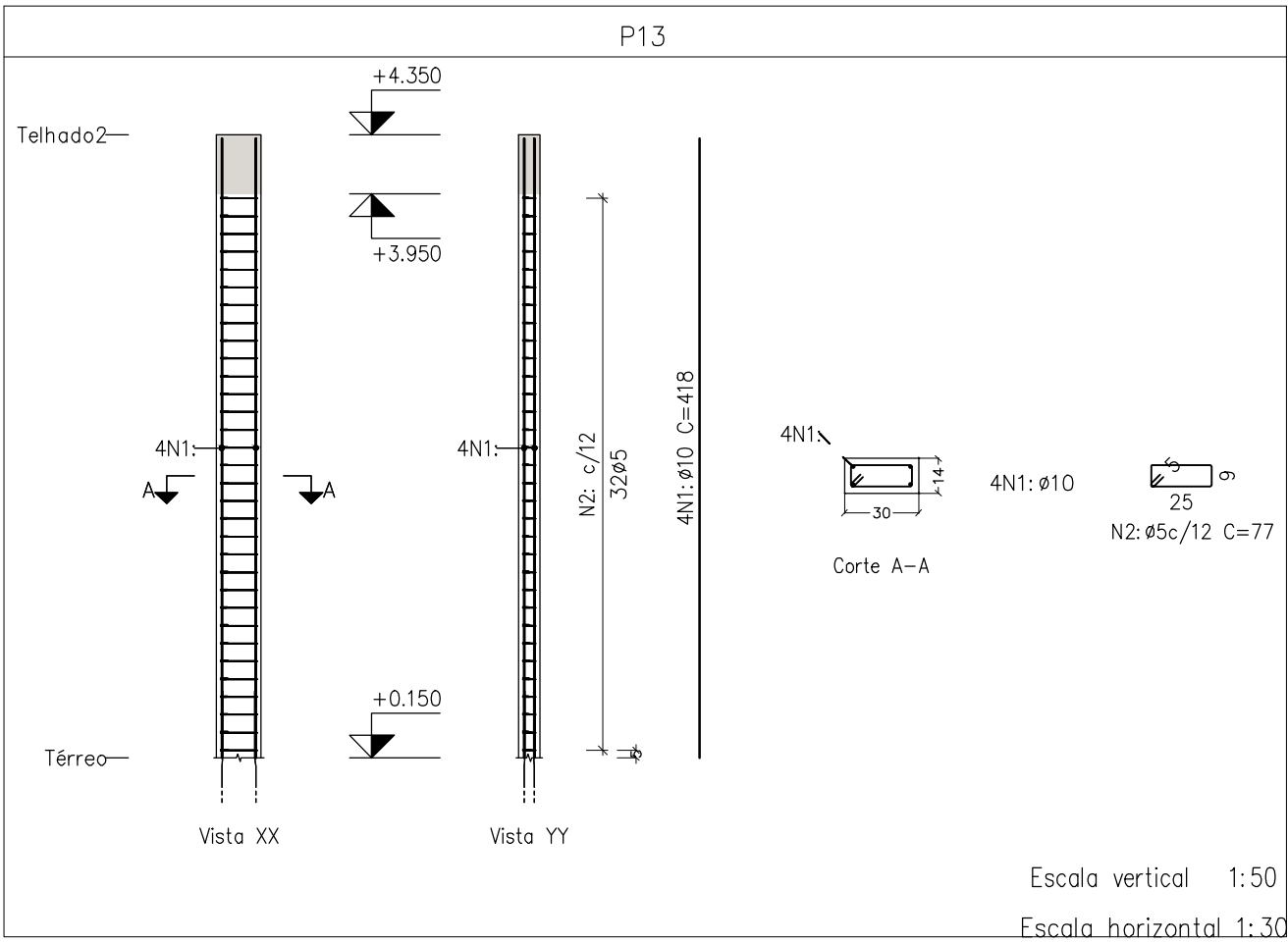
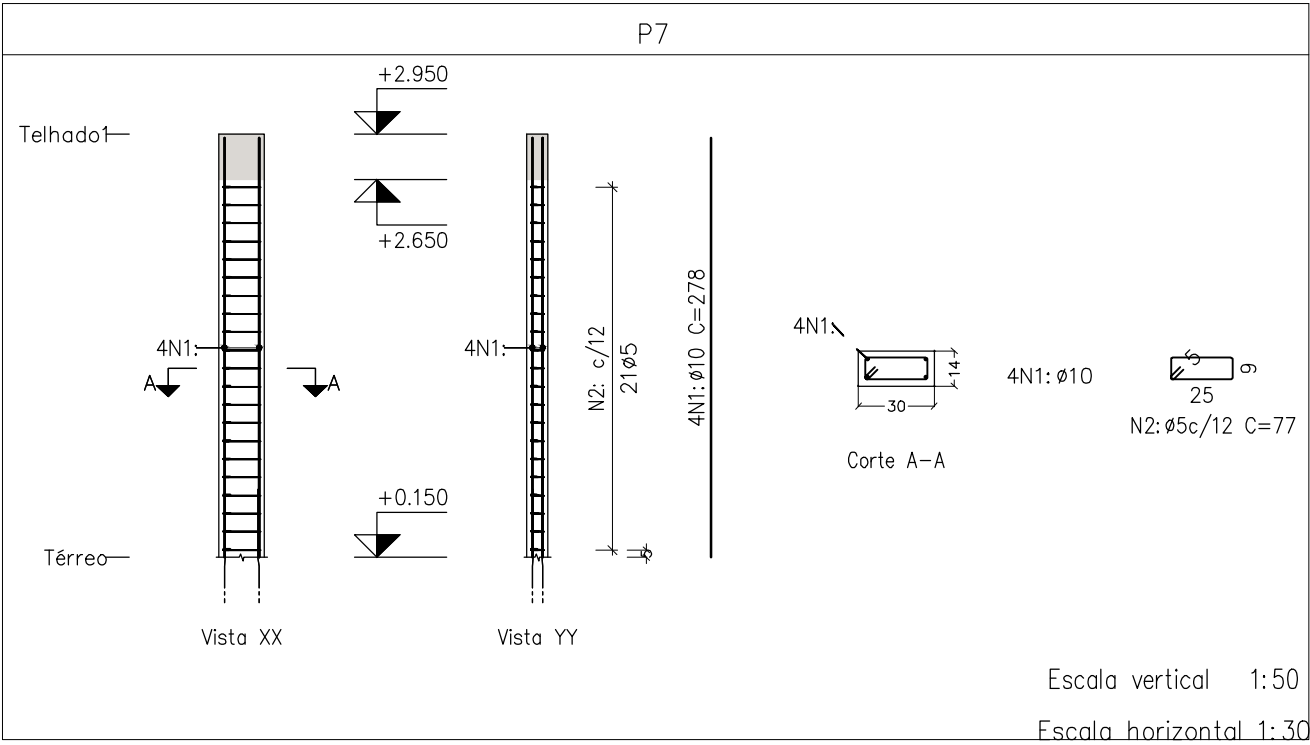
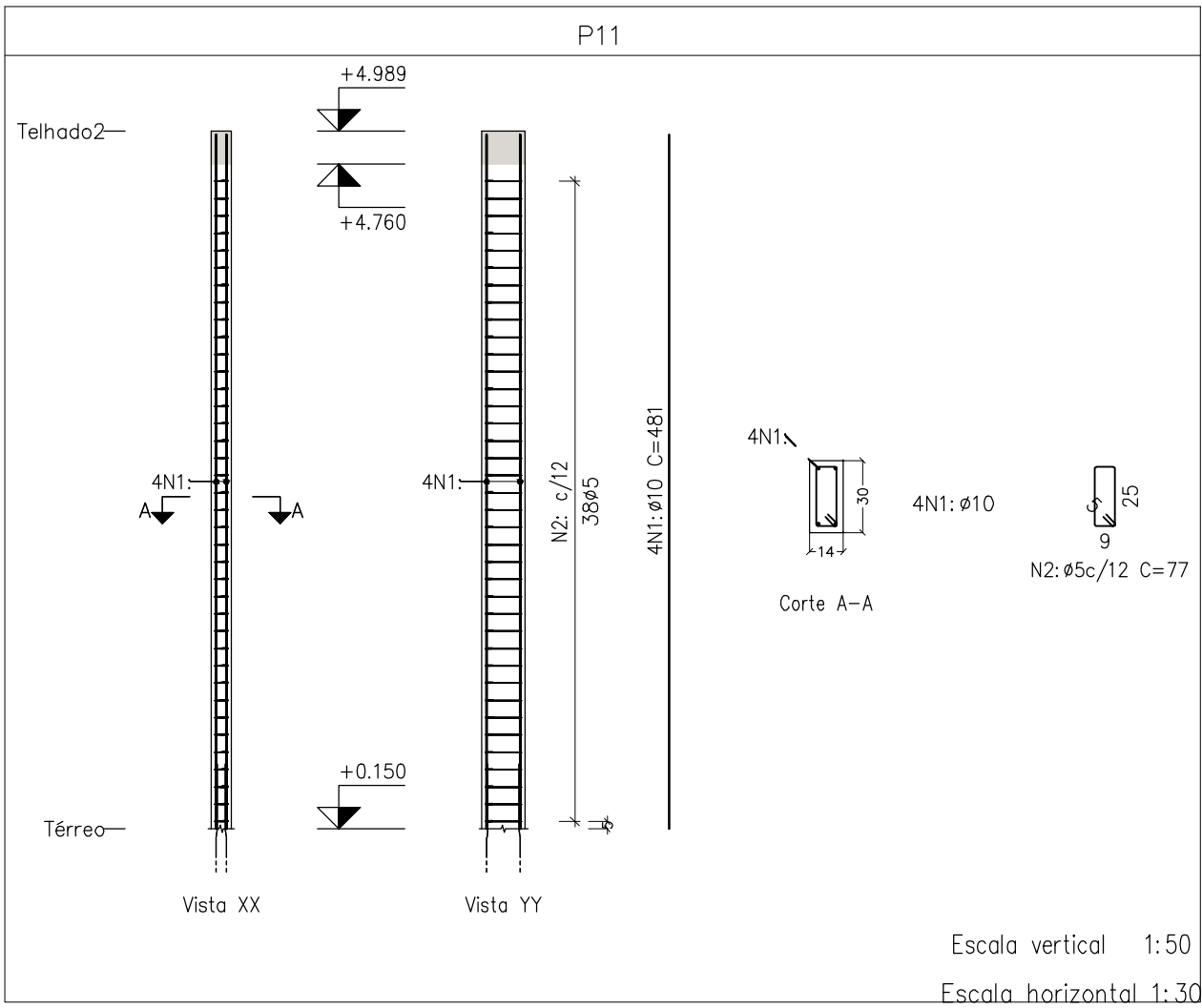
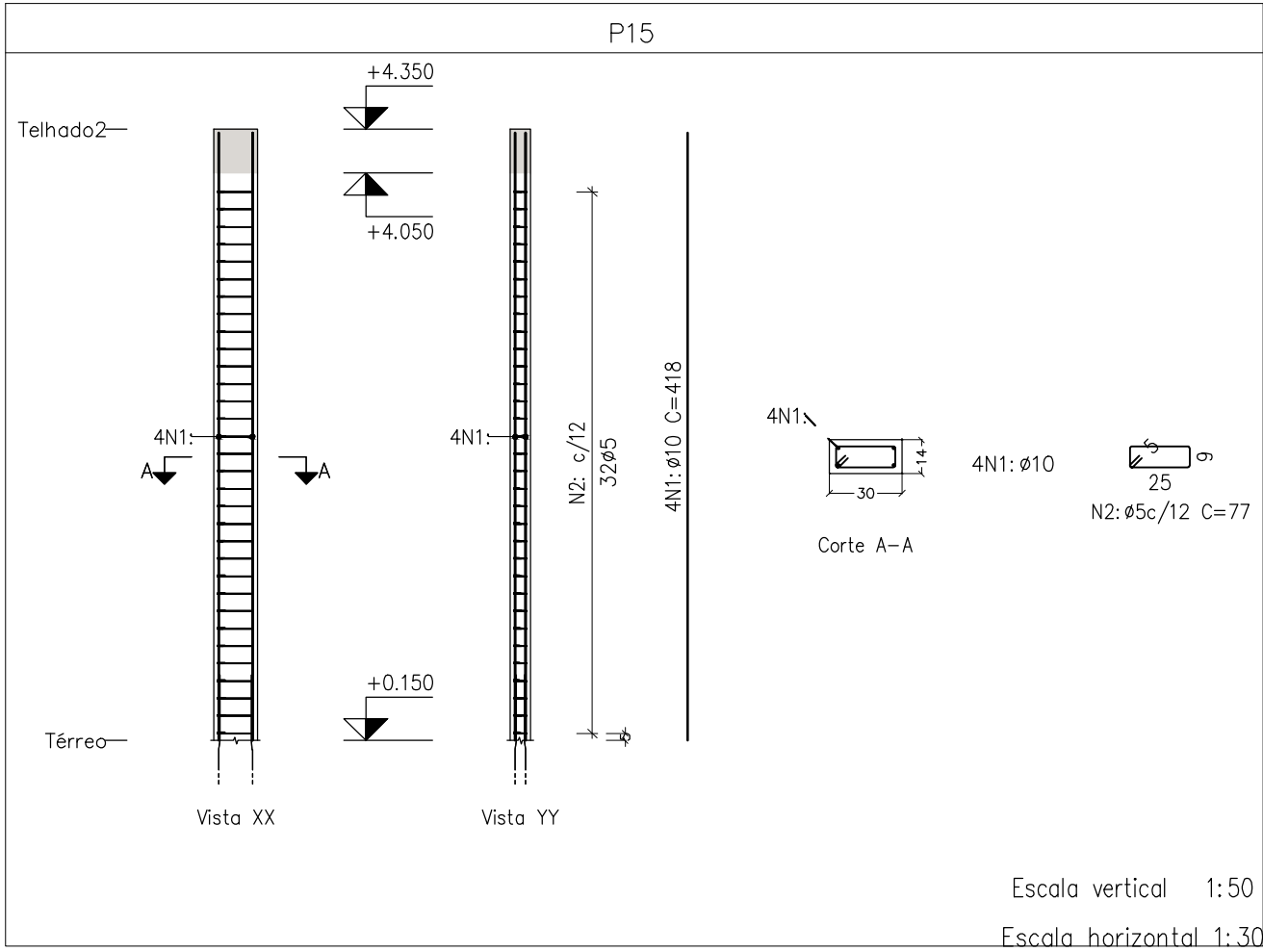
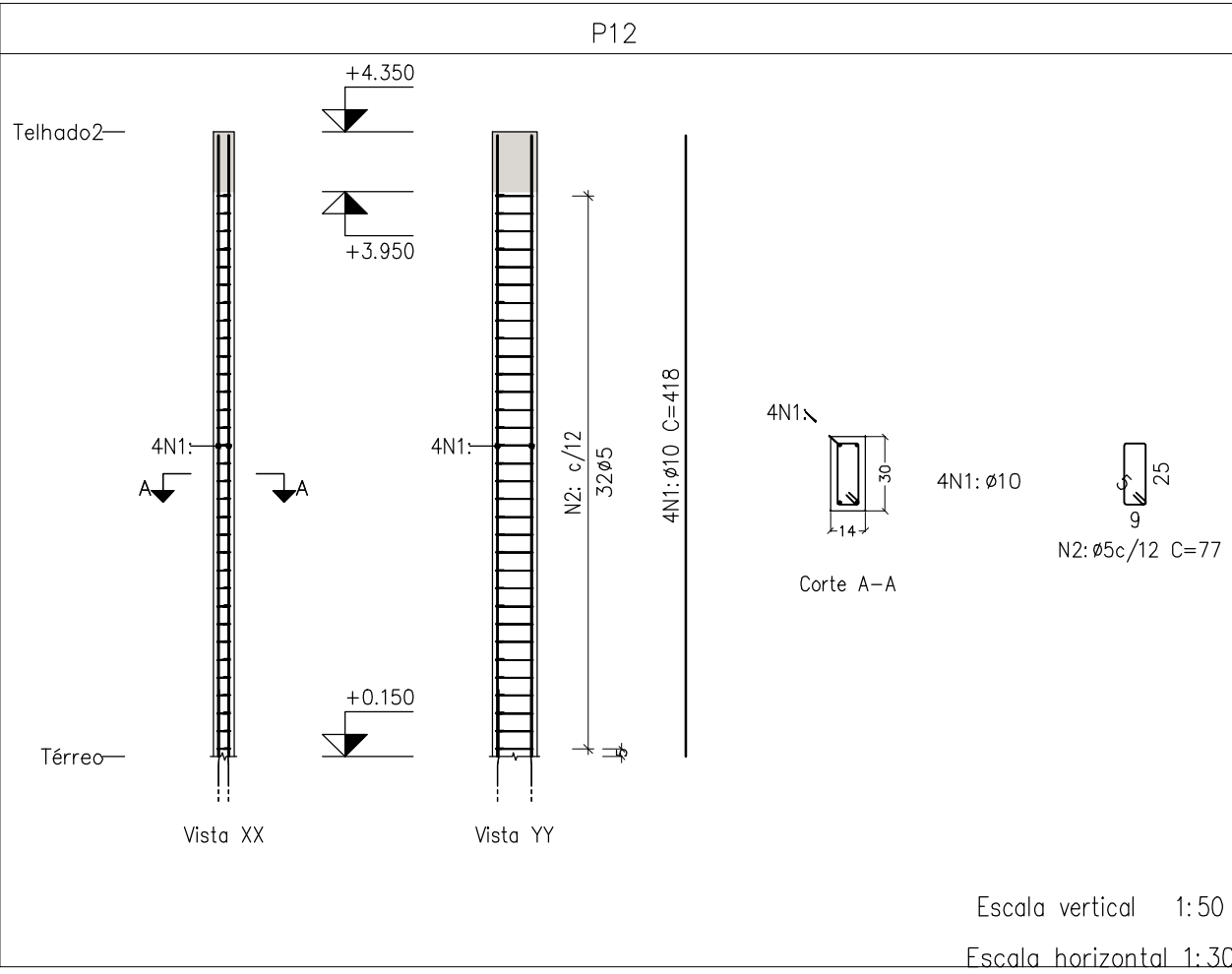
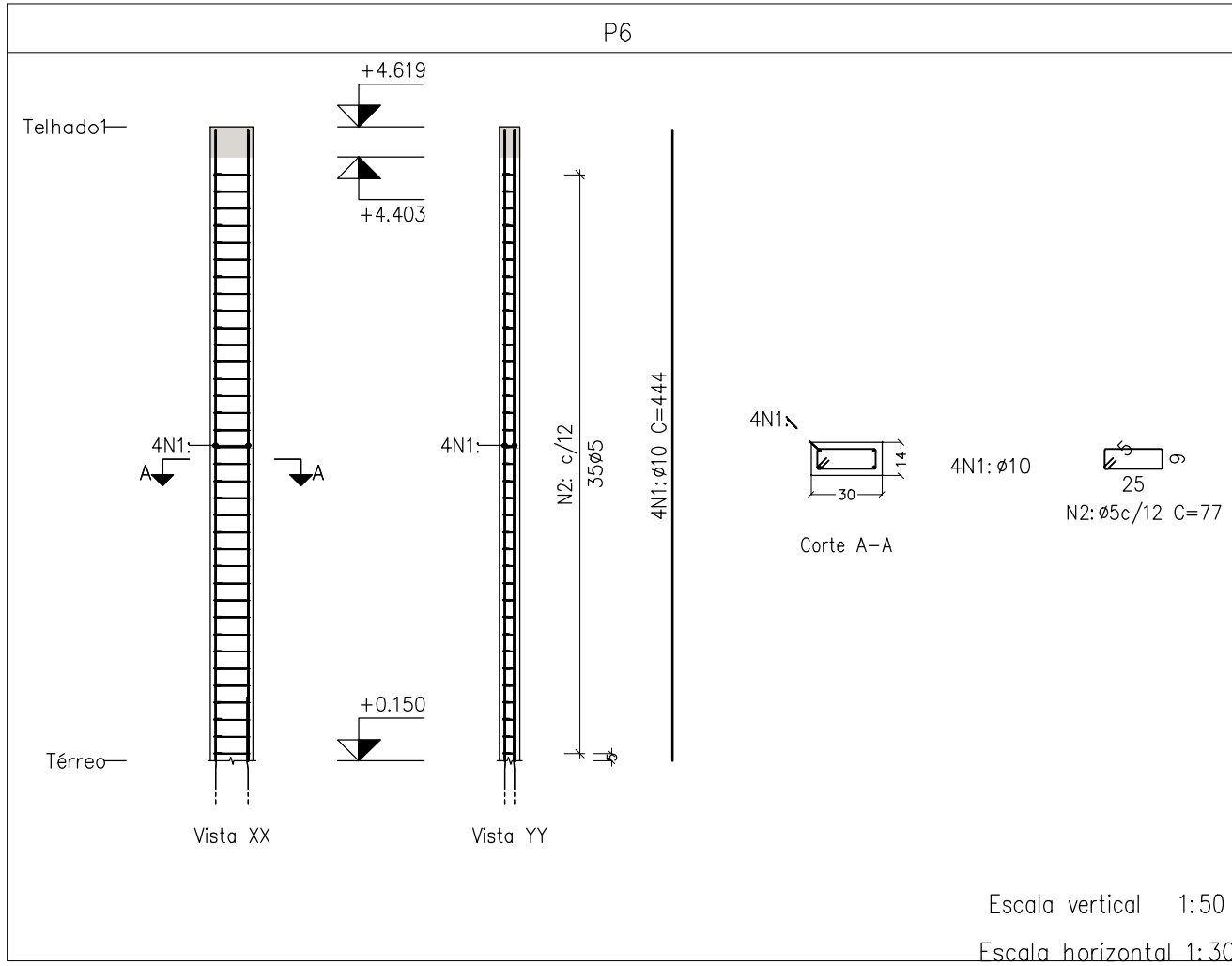


Elemento	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P2	1	ø10	4	325	1300	8.0	
	2	ø5	22	77	1694		2.7
	Total+10%					8.8	3.0
P3=P4	1	ø10	4	278	1112	6.9	
	2	ø5	21	77	1617		2.5
	Total+10%					7.6	2.8
P5	1	ø10	4	353	1412	8.7	
	2	ø5	27	77	2079		3.3
	Total+10%					9.6	3.6
P6	1	ø10	4	444	1776	10.9	
	2	ø5	35	77	2695		4.2
	Total+10%					12.0	4.6
P7	1	ø10	4	278	1112	6.9	
	2	ø5	21	77	1617		2.5
	Total+10%					7.6	2.8
P9	1	ø10	4	375	1500	9.2	
	2	ø5	21	77	1617		2.5
	Total+10%					10.1	2.8
P11	1	ø10	4	481	1924	11.9	
	2	ø5	38	77	2926		4.6
	Total+10%					13.1	5.1
P12	1	ø10	4	418	1672	10.3	
	2	ø5	32	77	2464		3.9
	Total+10%					11.3	4.3
P13	1	ø10	4	418	1672	10.3	
	2	ø5	32	77	2464		3.9
	Total+10%					11.3	4.3
P15	1	ø10	4	418	1672	10.3	
	2	ø5	32	77	2464		3.9
	Total+10%					11.3	4.3
Σ:						0.0	40.4
ø10:						110.3	0.0
Total:						110.3	40.4



Planta: Telhado1  
Concreto: C20, em geral  
Aço das barras: CA-50 e CA-60  
Aço dos estribos: CA-50 e CA-60

Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 ø10	428.1	290	290
CA-60 ø5	576.0	99	99
Total		389	



## Concreto 20MPa

REVISÕES				
NÚMERO	DATA	DESCRIÇÃO	DESENHO	VERIF.

## PROJETO ESTRUTURAL



EQUIPE TÉCNICA:  
Eng.º Civil Celso Zanoni Filho  
CREA/SC 061.511-0  
Eng.º Civil Jéssica Tartari da Silva  
CREA/SC 147.347-0  
Eng.º Eletricista Eduardo Marcelo da Silva  
CREA/SC 107.293-8  
Eng.º Mecânico Fábio Domingos Guimarães  
CREA/SC 075.436-1

RESPONSÁVEL PELO PROJETO	Eng.º Civil Celso Zanoni Filho			
	PREFEITURA MUNICIPAL DE ANGELINA CNPJ: 82.951.195/0001-10			
	Escola Municipal de Barra Clara Barra Clara Angelina/SC			
PROPRIETÁRIO LOCAL DA OBRA	Pilar chega em telhado1 - 01/02			
	C.Z.F			
	ÁREA 441,21m²			
DATA	Fev/2024			
	GBA 943			
	PRANCHA			
ESCALA				INDIC.
PI 02 / 04				