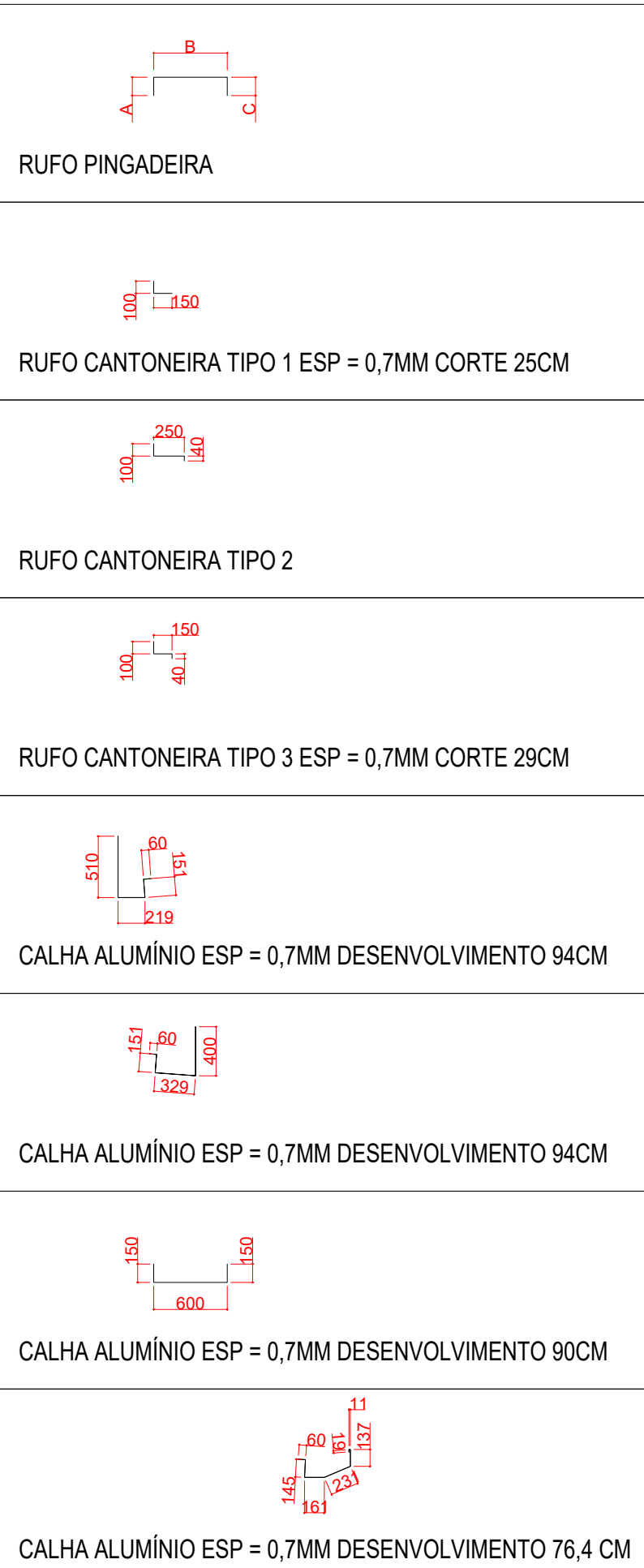




PLANTA VISTA SUPERIOR COBERTURA CEI
ESC. 1:100

LEGENDA TELHAS GERAL		
DESCRIÇÃO	COR DE IDENTIFICAÇÃO	QUANTIDADE
TELHA TERMOACÚSTICA TRANSLÚCIDA, TRILACADA, BRANCO, ESPESURA SOLANTE 50MM		1027,89M²
TELHA TRANSLÚCIDA POLICARBONATO		48,79M²
COBERTURA METÁLICA, PRETO		20,39M²
RUFO PINGADEIRA (SEM TELA)		-
RUFO CANTONEIRA ESP. 0,7MM TIPO 1		293,89M
RUFO CANTONEIRA ESP. 0,7MM TIPO 2		11,49M
RUFO CANTONEIRA ESP. 0,7MM TIPO 3		11,49M
CALHA ALUMÍNIO ESP. 0,7MM DESENVOLVIMENTO 90CM		3,09M
CALHA ALUMÍNIO ESP. 0,7MM DESENVOLVIMENTO 90CM		22,39M
CALHA ALUMÍNIO ESP. 0,7MM DESENVOLVIMENTO 90CM		11,19M
CALHA ALUMÍNIO ESP. 0,7MM DESENVOLVIMENTO 90CM		9,09M
TERMOACÚSTICA 50MM		1,29M



Detalhes da Isotelha Trapezoidal

Fixação da Isotelha Trapezoidal

Notas:

Estrutura de fixação dimensionada e executada pelo cliente

PAR FIX PB 12, 1/4-14 X 4" P4

Perspectiva

MAX. 2300 MM

PAR FIX PB 12, 1/4-14 X 4" P4

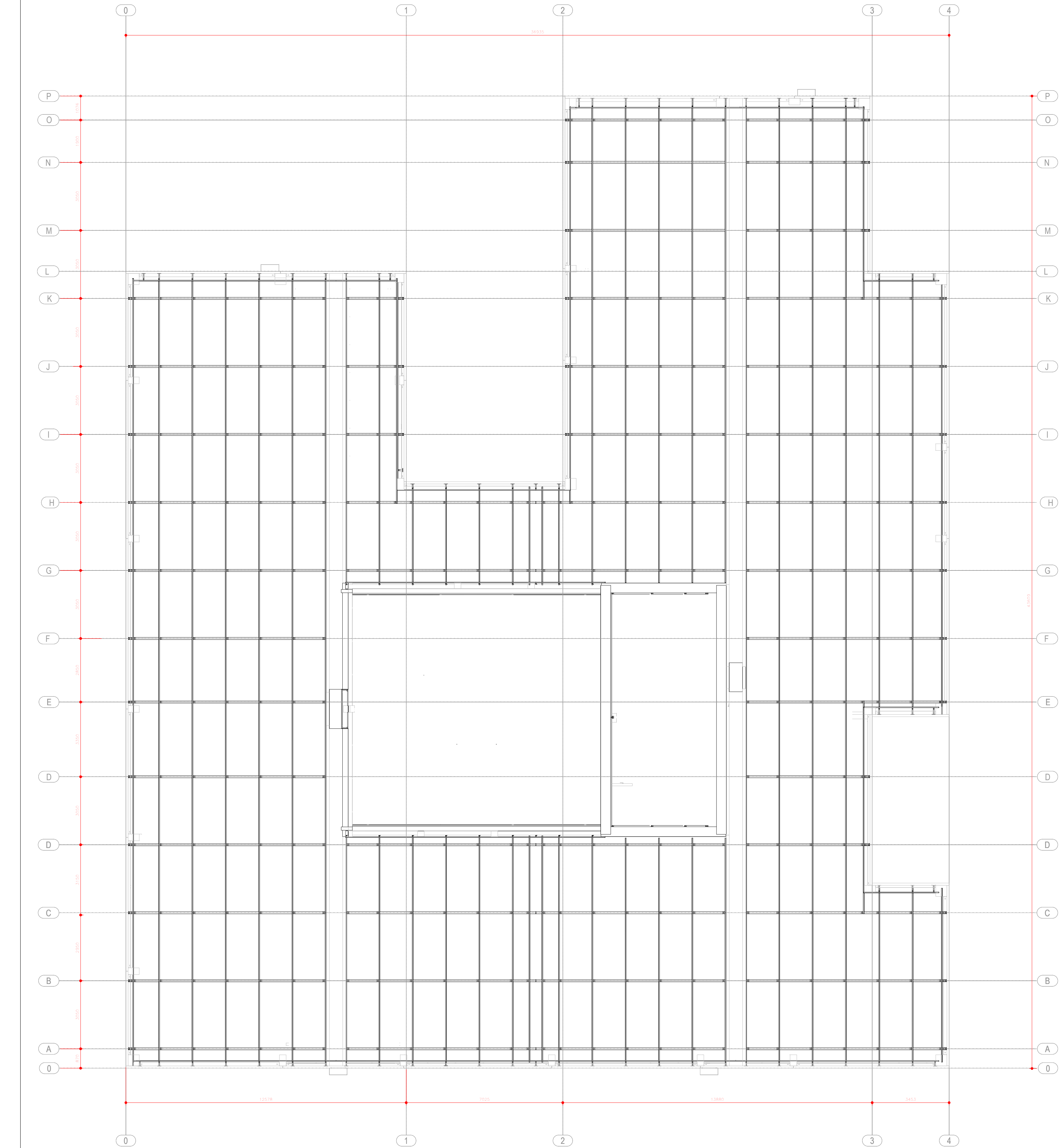
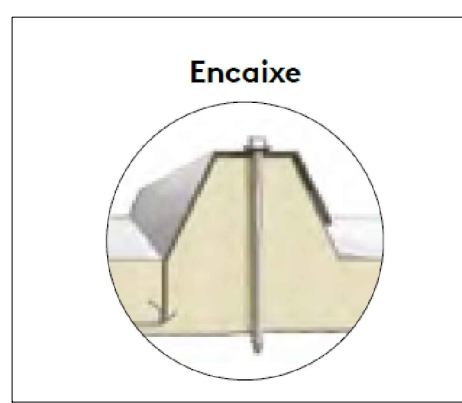
Telha Anterior

Terça do Cliente

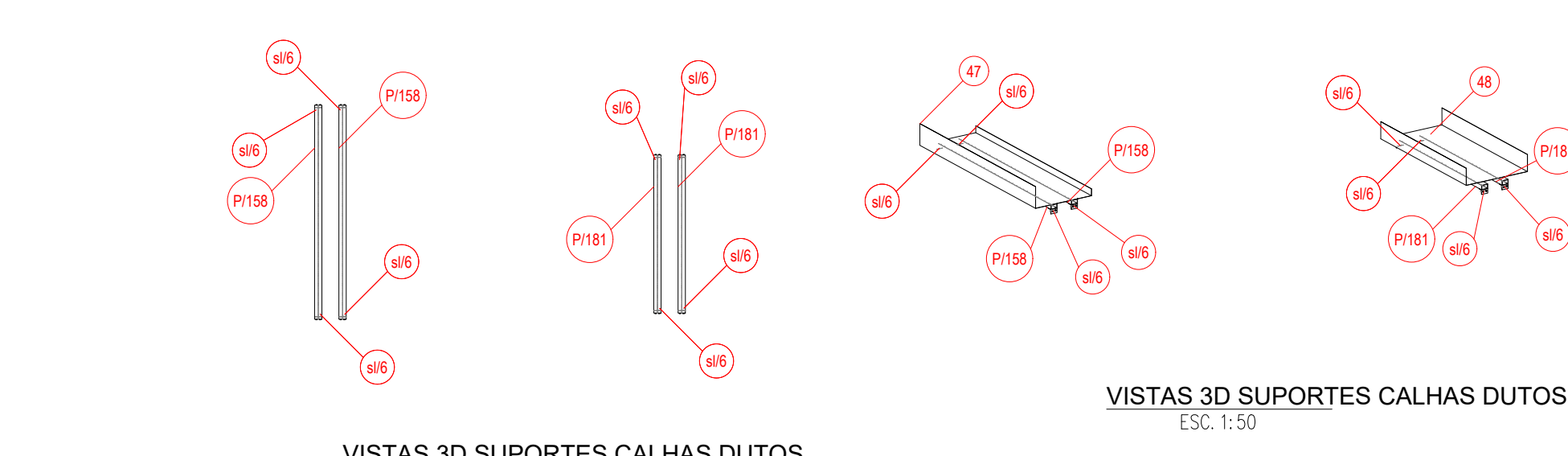
Vista Frontal

RUFOS PINGADEIRA									
MEDIDAS		ESPESURA		COMPRIMENTO		SOMA		TOTAL	
COD	A	B	C	MM	MM	MM	M	M	M
12	60	190	60	0,7	4595				
14	60	190	60	0,7	4515	9110	9,11		
17	60	290	60	0,7	11640				
19	60	290	60	0,7	11640	23280	23,28		
2	60	345	60	0,7	36940				
3	60	345	60	0,7	8300				
5	60	345	60	0,7	19915	65215	65,215		
1	60	350	60	0,7	35650				
8	60	350	60	0,7	17700	53350	53,35		
9	60	395	60	0,7	7768	7768	7,768		
4	60	410	60	0,7	8350				
6	60	410	60	0,7	8300				
10	60	410	60	0,7	9850	26500	26,5		
18	60	450	60	0,7	5600				
20	60	450	60	0,7	5600				
11	60	450	60	0,7	12590				
15	60	450	60	0,7	11400				
16	60	450	60	0,7	11400				
21	60	450	60	0,7	3850				
22	60	450	60	0,7	3850				
23	60	450	60	0,7	3850	58140	58,14		
13	60	494	60	0,7	1760	1760	1,76		
7	60	550	60	0,7	13880	13880	13,88		

TELHA	FIXAÇÃO PARAFUSO	ACO
ROTELHA 200x40	PARAFUSO PB12 1/4" P4	MAX. 1/4" P4
ROTELHA 300x40	PARAFUSO PB12 1/4" P4	MAX. 1/4" P4
ROTELHA 500x40	PARAFUSO PB12 1/4" P4	MAX. 1/4" P4



PLANTA EIXOS COBERTURA 1
ESC. 1:100



EXETO QUANDO ESPECIFICADO	
Dimensões mínimas de Telhas de Solas	Lei 11 de 1964
Espeura da chapa (sem grão) (mm)	Lei 11 de 1964
- 40 a 50 mm	3,00mm
- 50 a 75 mm	3,50mm
- 75 a 100 mm	4,00mm
- 100 a 125 mm	4,50mm
- maior do que 125 mm	5,00mm

RECOMENDAÇÕES GERAIS	
- A SOLDADEIRA DEVE SER FEITA EM TODA A SUA EXTENSÃO DEVERÁ SER REALIZADA DE ACORDO COM AS ESPECIFICAÇÕES DA EMPRESA FABRICANTE.	
- O ELÉTRICO ESPECIFICADO PARA ESTE PROJETO É O ELÉTRICO DE 110V/60Hz.	
- O ELÉTRICO DEVERÁ SER REALIZADO EM LUGAR SECO E SEM FUMOS.	
- A TELA DA LATA A QUANTIA NECESSÁRIA PARA CADA UTILIZAÇÃO.	
- O ELÉTRICO DEVERÁ SER REALIZADO EM LUGAR SECO E SEM FUMOS.	
- ANTES DE INICIAR A SOLDADEIRA, O ELÉTRICO DEVERÁ SER PRE-ALINHADO EM ESTE APROPRIADA, GARANTINDO A MAIOR TEMPERATURA DE 30°C A SUPERFÍCIE QUE SERÁ SOLDADEIRA DEVERÁ ESTAR LIMA E LIMPA.	

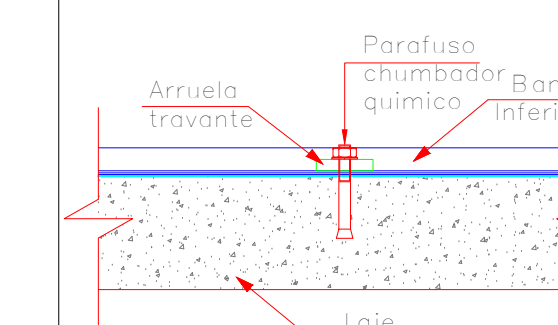
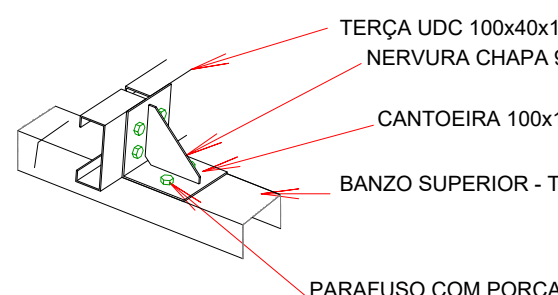
H - menor espessura

LEGENDA DE PEÇAS				
POSIÇÃO	DESCRIÇÃO	COMP (mm)	MATERIAL	NOTAS
47	BU 7796 B	1700	ALUMÍNIO	
48	BU 7796 B	1700	ALUMÍNIO	
49	PERFIL METALON BEXADO	1700	ASA	
50	PERFIL METALON BEXADO	1299	ASA	
51	L40 40/3	60	ASA	

RESUMO DE MATERIAIS DE ESTRUTURAS METÁLICAS COBERTURA 1B				
ITEM	DESCRIÇÃO	MATERIAL	COMP / ÁREA (M2)	ÁREA PINTURA (M2)
1	L40 40/3	ASA	0,48	0,08
2	PERFIL METALON 6"	ASA	6,12	1,21
CHAPAS			0,09	0,09
TOTAIS			1,29	27,96

DETALHE 1 (Cantoneira de ligação tesoura - terço)

ESC. 1:10

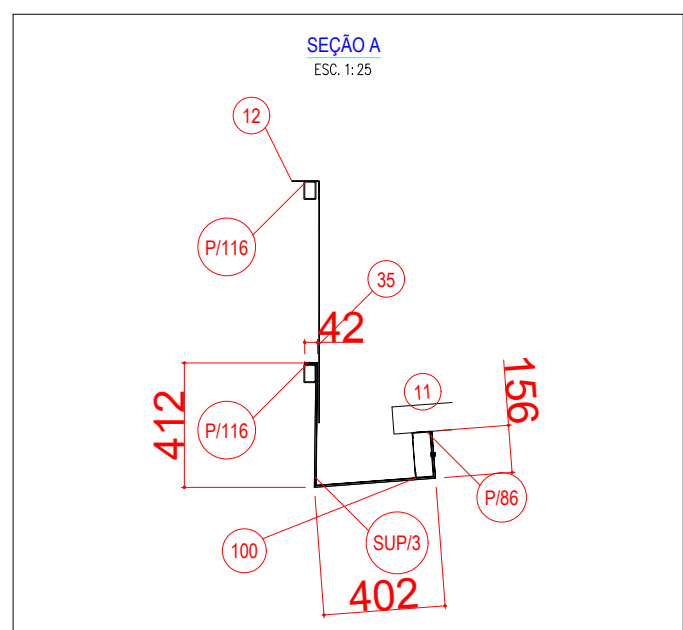
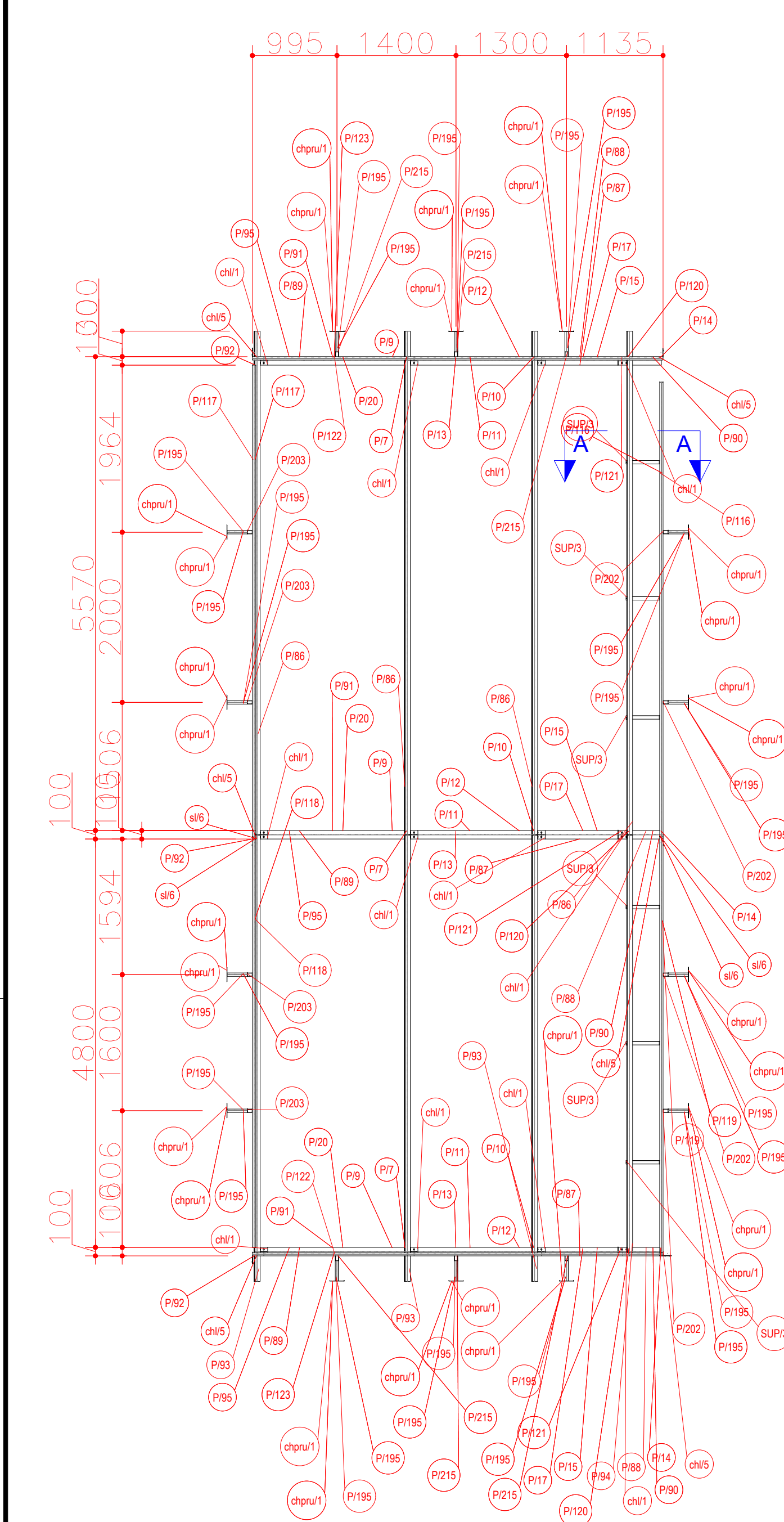


RESUMO DE TOTAL DE MATERIAIS DE ESTRUTURAS METÁLICAS COBERTURAS 1A, 1B, 1C, 1D, 2, 3				
ITEM	DESCRIÇÃO	MATERIAL	COMP / ÁREA (M2)	ÁREA PINTURA (M2)
BARRAS/PARAFUSOS/ARRUELAS				
1	BARRA RED 6,3"	ASA	82,90	1,61
2	BU 400/400/3	ASA	3,20	5,20
3	C100X40X17X2	ASA	849,35	353,55
4	C150X60X20X2	ASA	155,65	94,68
5	L40 40/3	ASA	4,90	0,64
6	L40 40/3	ASA	6,03	1,00
7	L50 100/2 66	ASA	0,60	0,18
8	L100 100/2 66	ASA	31,40	12,89
9	L150 100/2 66	ASA	6,80	3,39
10	PERFIL METALON	ASA	583,88	115,78
11	US0X25X2	ASA	15,36	2,96
12	US0X25X2	ASA	1086,85	326,77
13	U100X50X2,65	ASA	899,85	343,45
CHAPAS			1262,10	12636,16
14	CH 2,7	ASA	4,76	7,46
15	CH 5,0	ASA	1,17	1,17
16	CH 6,3	ASA	2,52	3,95
17	CH 7,84	ASA	0,09	1,77
TOTAIS			1274,77	12825,60

CHAPA ALUMÍNIO FECHAMENTOS LATERAIS RUFOS		ÁREA (M2)
18	CHAPA ALUMÍNIO 0,7MM	135,21

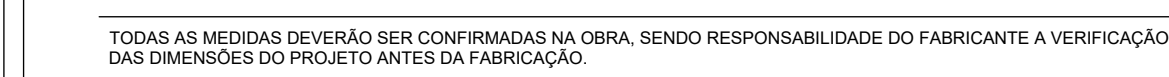
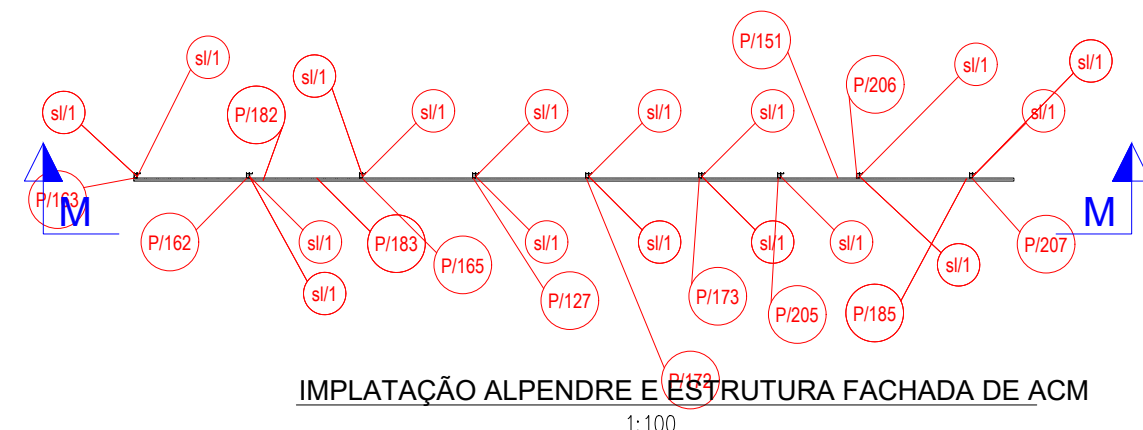
Parafuso PB 12 - 14 x 3/4" P3 FIXAÇÃO CHAPAS DE ALUMÍNIO		924 UN
17	PB 12 - 14 x 3/4" P3	ACO
Parafuso PB 12 1/4" 14 x 5" P04" FIXAÇÃO TELHAS TERMOACÚSTICAS		1216 UN
18	PB 12 1/4" 14 x 5" P04"	ACO
PARAFUSO COM ROSCA SOBERBA, ARRUELA E BUCHA		437 UN
19	1/4" X 40MM	ACO
PARAFUSO COM ROSCA SOBERBA, ARRUELA E PORCA		2350 UN
20	3/8" X 40MM	ACO
PARAFUSO CHUMBADOR QUÍMICO PB		TOTAIS
21	5/8" X 6 1/2"	ACO
PARAFUSO 3/4" COM PORCA E ARRUELA A325		32 UN
22	1/4" X 2"	ACO
PARAFUSO 5/32 COM PORCA E ARRUELA A307		32 UN
23	1/4" X 1/2"	ACO

NOTAS GERAIS	
- TODAS AS DIMENSÕES DO PROJETO ESTÃO EM MILÍMETROS.	
- DIMENSÕES NAS TABELAS DE MATERIAIS ESTÃO EM MILÍMETROS, KG, KG/M OU UNIDADE.	
- DIMENSÕES EM TABELAS RESUMO ESTÃO EM METROS E KG.	
- ROLAS CONFORME AWS E NBR 14.	
- ARCO ELETRODO COM REVESTIMENTO REVESTIDO, AWS E NBR 14.	
- LUTA DE MATERIAIS REDUTORES.	
- MATERIAIS: PERIS DE CHAPAS FORMADAS A FIO, DOBRADAS E PLANAS E PERIS/LAMINADOS.	
- PERIS ASTM A-36 Fy=235kgf/cm².	
- TODAS AS PEÇAS QUE NECESSITAREM DE EMENDA, DEVERÁ SER FEITA SOLDA CONTÍNUA.	
- FERRO MECÂNICO: ASTM A36.	
- FAZER ENLASE DE TRACÇÃO Fy=235kgf/cm² e Fu=430MPa.	
- CONJUNTO DE PARAFUSOS GALVANIZADOS: PARAFUSO, PORCA E ARRUELA.	
- TODAS AS PEÇAS DEVERÃO SER GALVANIZADAS A FOGO.	
- LIGAÇÕES PRINCIPAIS CONFORME NORMA ASTM A-325.	
- LIGAÇÕES SECUNDÁRIAS CONFORME NORMA ASTM A-307.	
- A LOCAÇÃO E FIXAÇÃO DOS CHUMBADORES DEVERÃO OBEDECER PRECISÃO EM PROJETO.	
- ESPESURA DA SOLDA: VER SIMBOLOGIA E ESPECIFICAÇÕES.	
- NORMAS UTILIZADAS: NBR 880:2008, NBR 6150:2007, NBR 14700:2011, NBR 14701:2011, NBR 14702:2011, NBR 14703:2011, NBR 14704:2011, NBR 14705:2011, NBR 14706:2011, NBR 14707:2011, NBR 14708:2011, NBR 14709:2011, NBR 14710:2011, NBR 14711:2011, NBR 14712:2011, NBR 14713:2011, NBR 14714:2011, NBR 14715:2011, NBR 14716:2011, NBR 14717:2011, NBR 14718:2011, NBR 14719:2011, NBR 14720:2011, NBR 14721:2011, NBR 14722:2011, NBR 14723:2011, NBR 14724:2011, NBR 14725:2011, NBR 14726:2011, NBR 14727:2011, NBR 14728:2011, NBR 14729:2011, NBR 14730:2011, NBR 14731:2011, NBR 14732:2011, NBR 14733:2011, NBR 14734:2011, NBR 14735:2011, NBR 14736:2011, NBR 14737:2011, NBR 14738:2011, NBR 14739:2011, NBR 14740:2011, NBR 14741:2011, NBR 14742:2011, NBR 14743:2011, NBR 14744:2011, NBR 14745:2011, NBR 14746:2011, NBR 14747:2011, NBR 14748:2011, NBR 14749:2011, NBR 14750:2011, NBR 14751:2011, NBR 14752:2011, NBR 14753:2011, NBR 14754:2011, NBR 14755:2011, NBR 14756:2011, NBR 14757:2011, NBR 14758:2011, NBR 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RESUMO DE MATERIAIS DE ESTRUTURAS METÁLICAS COBERTURA 3				
ITEM	DESCRIÇÃO	MATERIAL	COMP. (M)	ÁREA (M2)
1	BARRAS PARA FUSOS ARRUELAS	A36	44,34	26,97
2	C100X50X2,65	A36	0,24	0,04
3	L40X40X3	A36	0,00	0,18
4	L40X40X2,65	A36	1,20	0,02
5	PERFIL METALCO	A36	74,67	14,81
6	U100X50X2,65	A36	35,48	10,87
7	U100X50X2,65	A36	28,78	11,37
CHAPAS			64,66	752,87
8	CH 2,7	A36	0,43	0,78
9	CH 5,9	A36	0,54	1,32
TOTAIS			65,98	769,71

LEGENDA DE PEÇAS				
POSIÇÃO	DESCRIÇÃO	COMP (mm)	MATERIAL	NOTAS
11	8,8x198	45X	ALUMINIO	
12	8,8x175	140X	ALUMINIO	
13	8,8x175	102X	ALUMINIO	
14	8,8x175	80X	ALUMINIO	
15	8,8x175	1110	ALUMINIO	
P16	U100X50	84	A36	
P16	U100X50	87	A36	
P18	U100X50	82	A36	
P19	U100X50	88	A36	
P20	U100X50	89	A36	
P21	U100X50	88	A36	
P22	U100X50	89	A36	
P23	U100X50	87	A36	
P24	U100X50	89	A36	
P25	U100X50	88	A36	
P26	U100X50	89	A36	
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P28	U100X50	87	A36	
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H - menor espessura

COBERTURA 5 (ALPENDRE E ACM)	ESCALA INDICADA	MEI 05/06
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