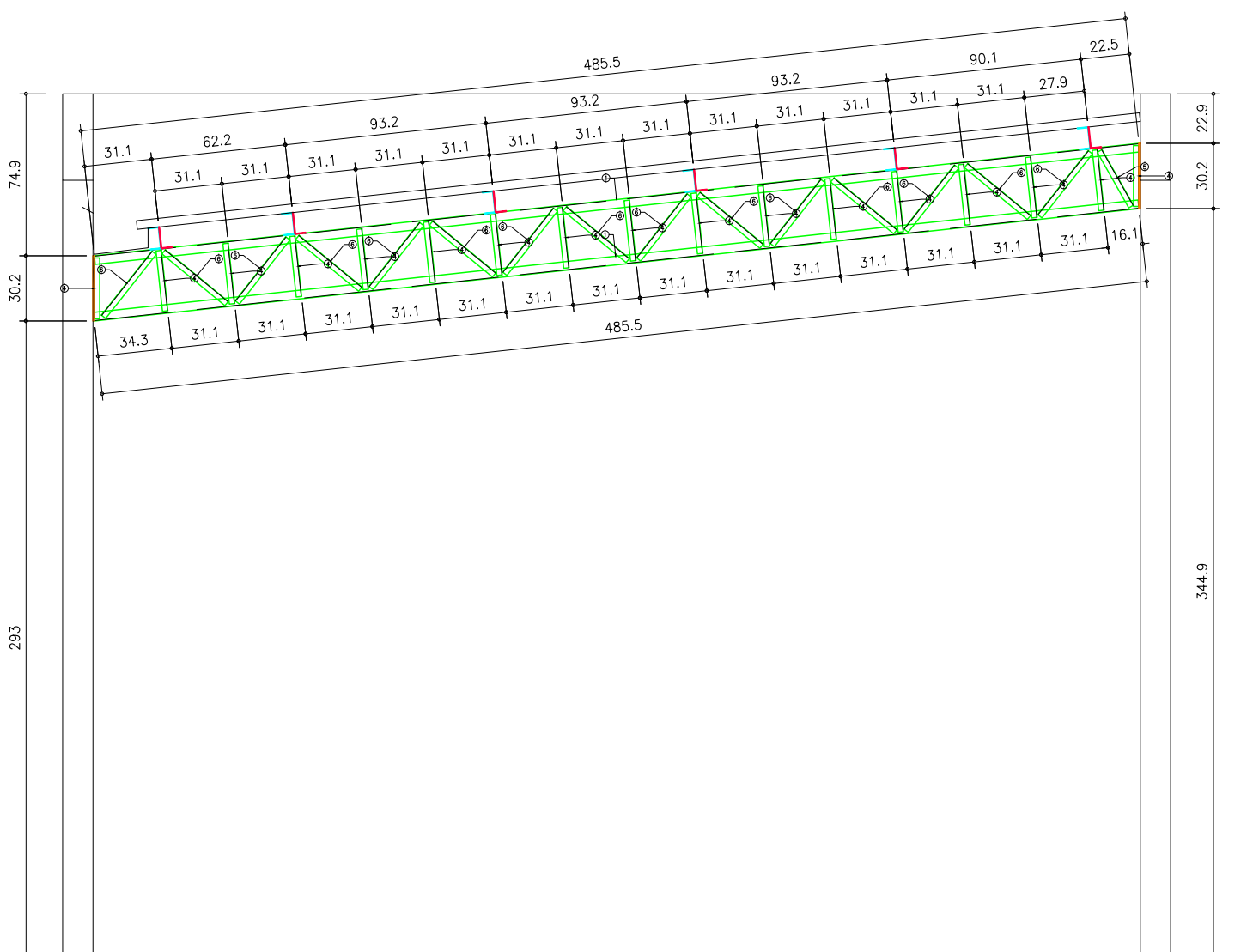
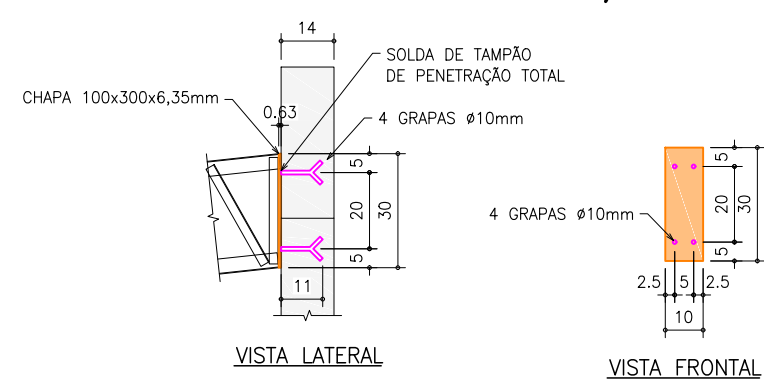


ELEVÇÃO EIXO 1
1/30

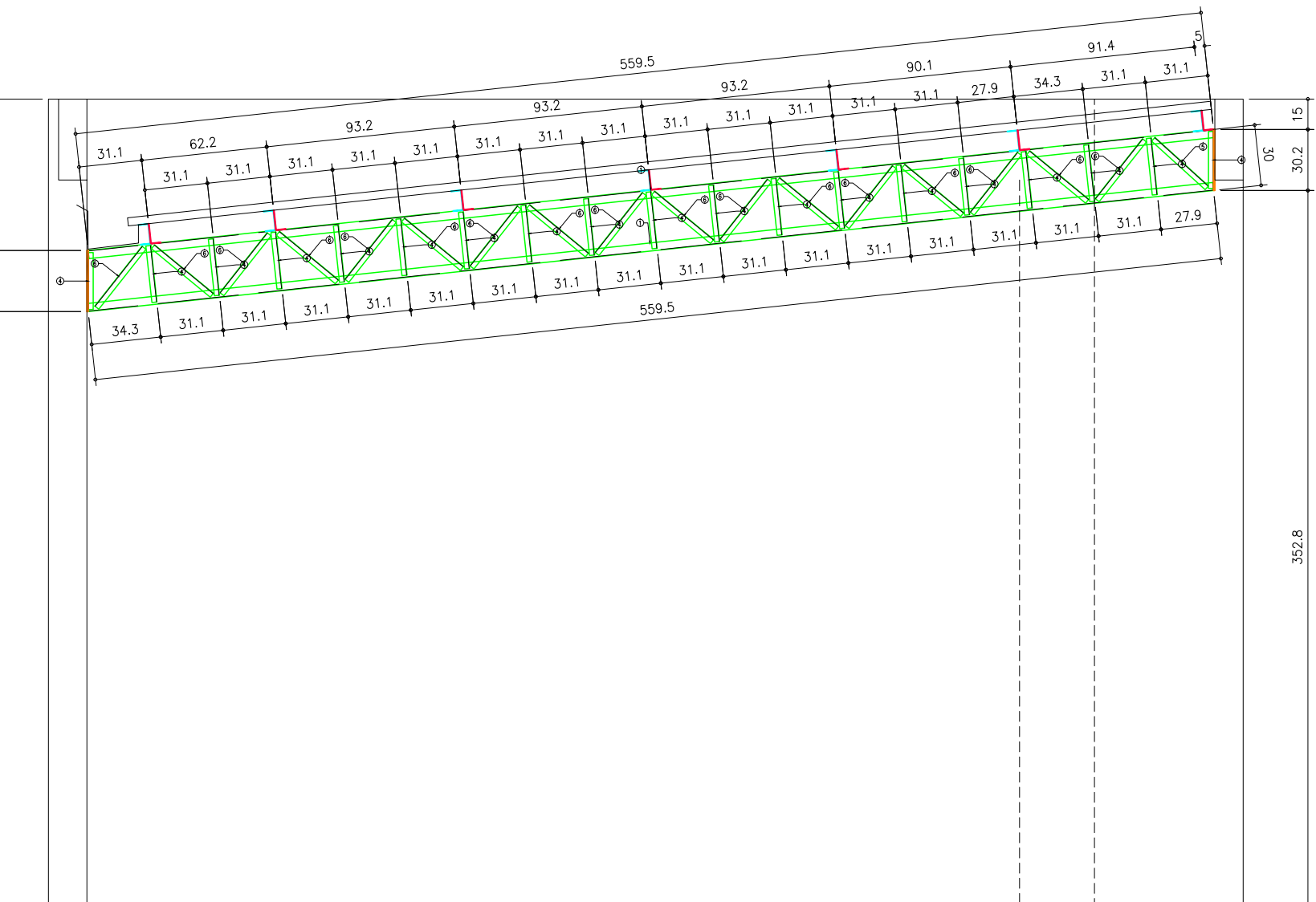
ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITÁRIO	PESO TOTAL	ÁREA DE PINTURA
1	1		Treliça Eixo 1		45,5	45,5	5,62
2	2	L	90x40x2	4809	12,34	24,68	3,18
3	6	L	100x50x2,25	90	0,23	1,4	0,16
4	3	17 L	25x25x2	282	0,41	7,03	0,94
5	4	1 L	25x25x2	294	0,43	0,43	0,06
6	1	2 L	25x25x2	357	0,52	0,52	0,07
7	14	2 L	25x25x2	377	0,55	7,74	1,03
8	8	BARRA RED.	25x25x2	160	0,09	0,72	0,04
9	2	CH	6,35x100	300	1,5	2,99	0,13
PESO TOTAL						45,5 kgf	
ÁREA DE PINTURA						5,62 m ²	

DET. DA FIXAÇÃO DAS TRELIÇAS
1/20



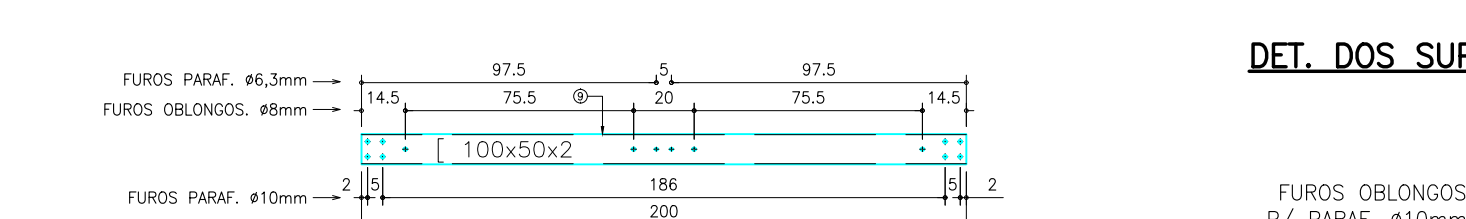
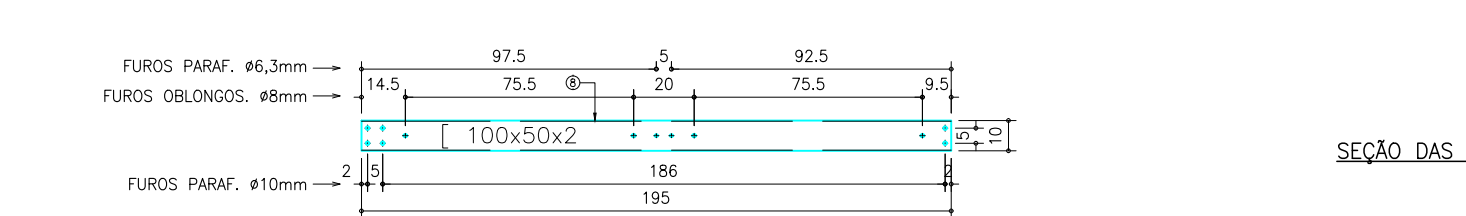
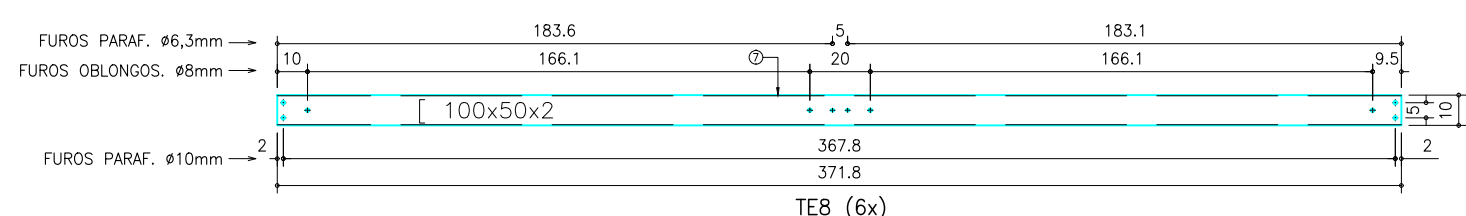
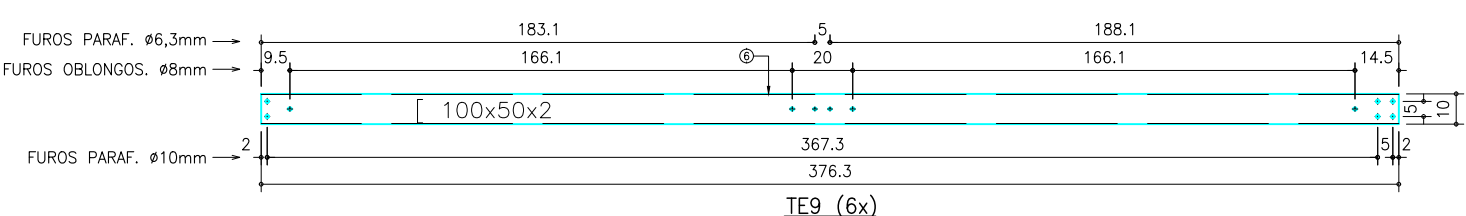
ELEVÇÃO EIXO 2
1/30

ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITÁRIO	PESO TOTAL	ÁREA DE PINTURA
1	1		Treliça Eixo 2		45,77	45,77	5,65
2	2	L	90x40x2	4855	12,46	24,92	3,21
3	6	L	100x50x2,25	90	0,23	1,4	0,16
3	8	BARRA RED.	9,53		160	0,09	0,72
4	17	L	25x25x2	282	0,41	7,03	0,94
5	1	L	25x25x2	290	0,43	0,43	0,06
6	15	L	25x25x2	377	0,55	8,29	1,11
7	2	CH	6,35x100	300	1,5	2,99	0,13
PESO TOTAL						45,77 kgf	
ÁREA DE PINTURA						5,65 m2	

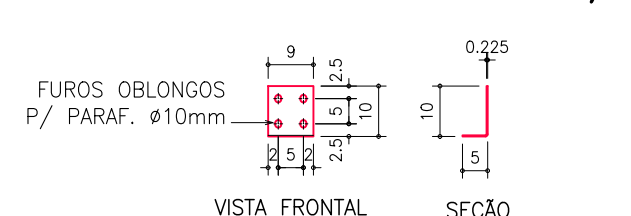


ELEVÇÃO FIOS 3 E 4
1/30

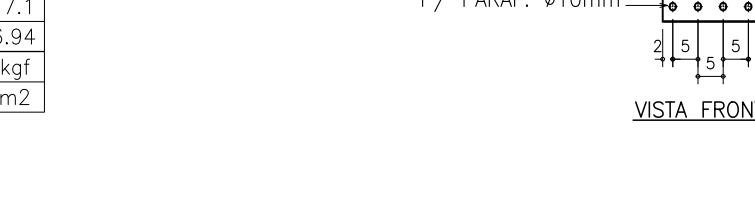
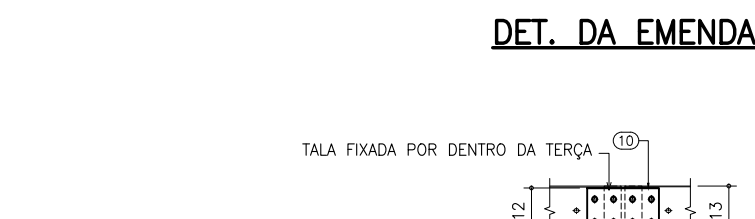
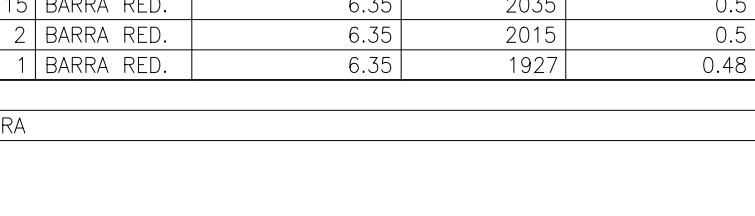
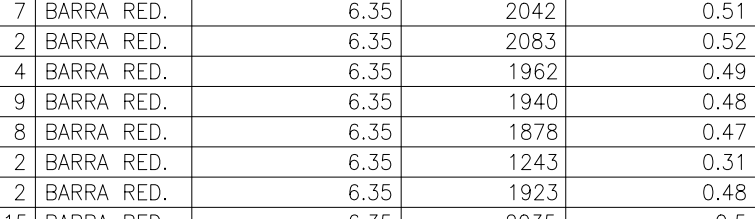
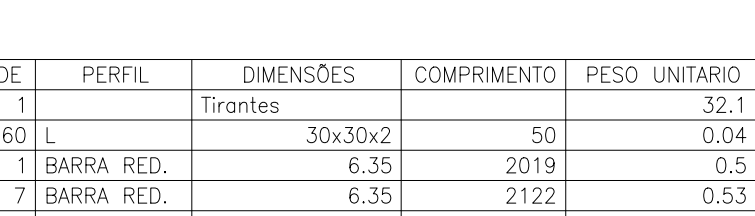
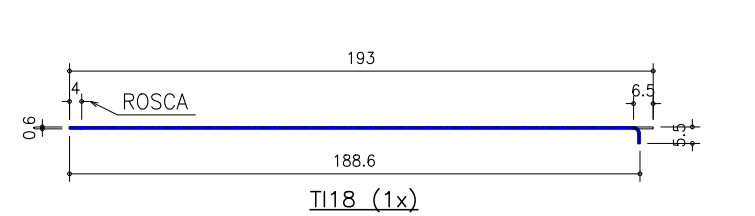
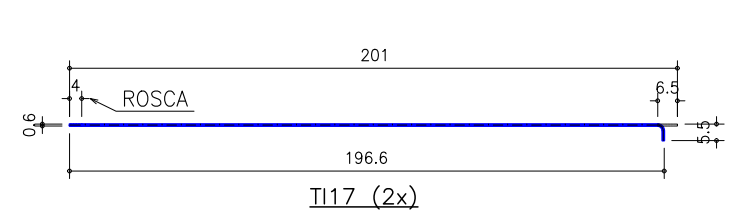
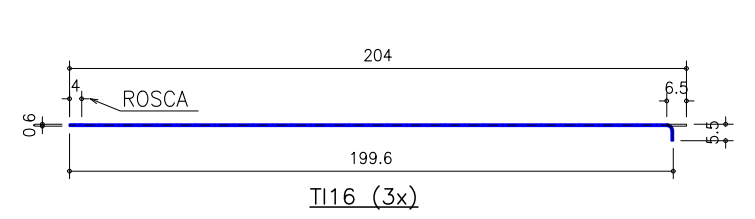
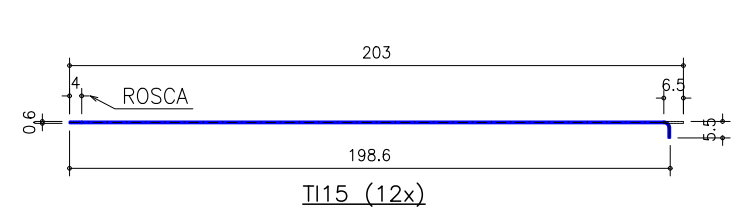
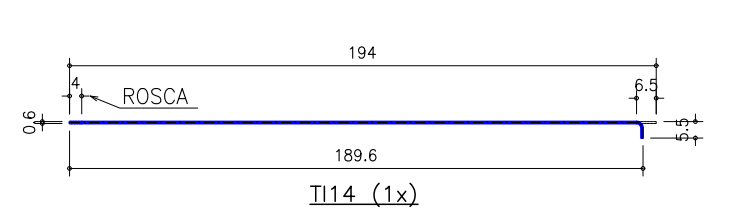
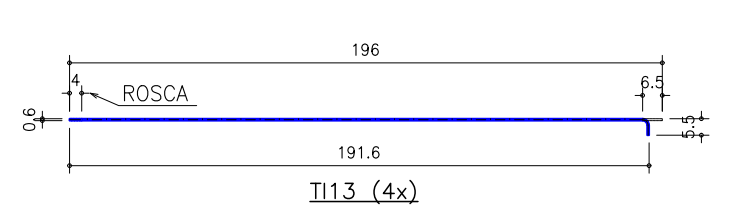
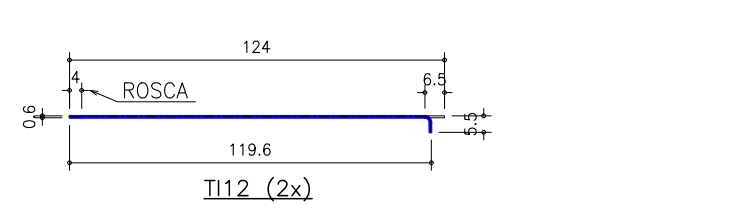
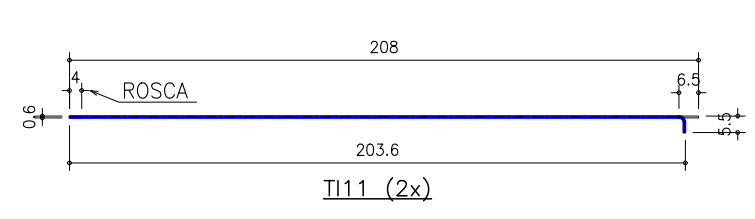
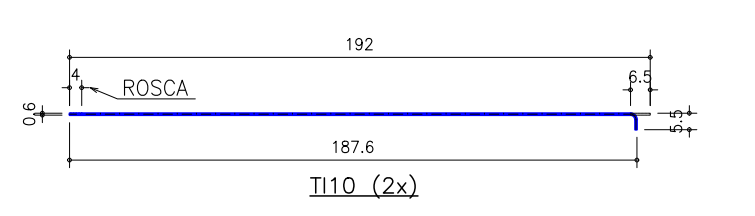
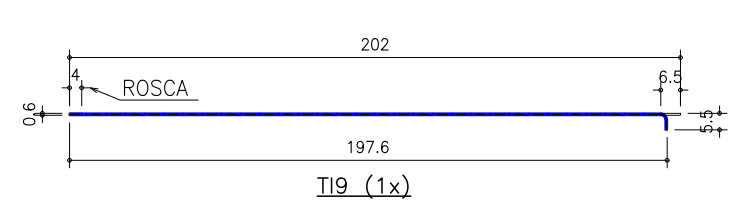
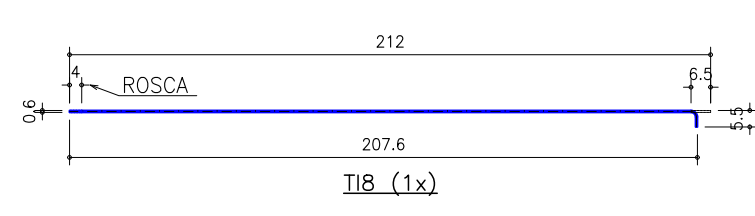
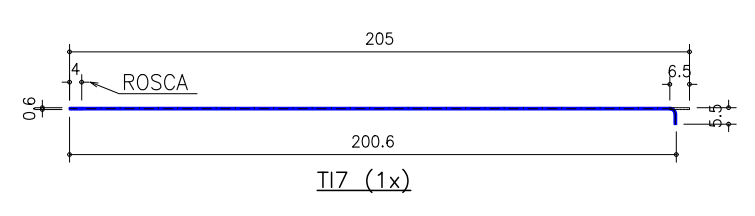
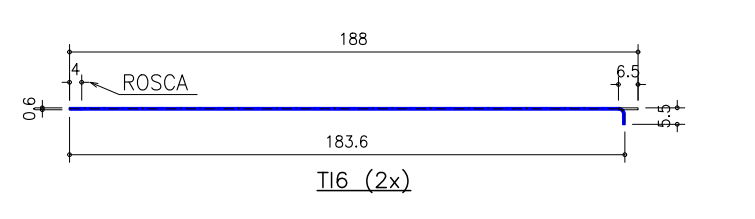
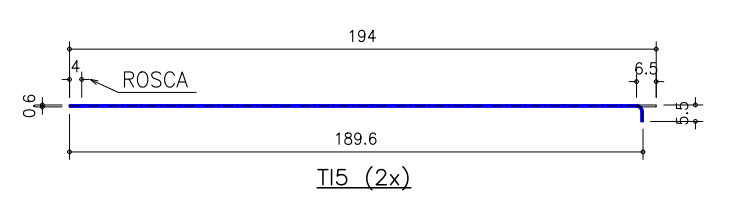
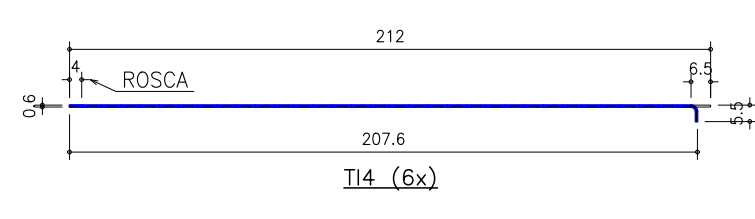
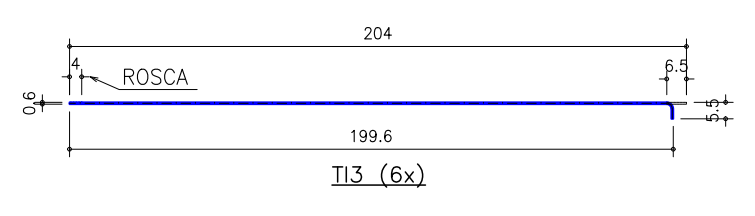
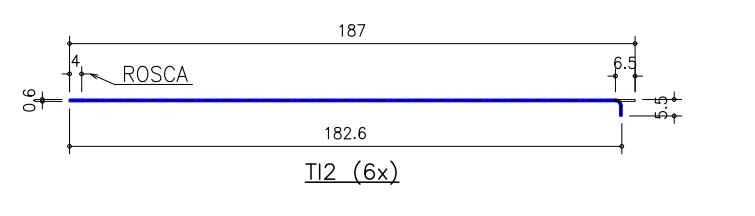
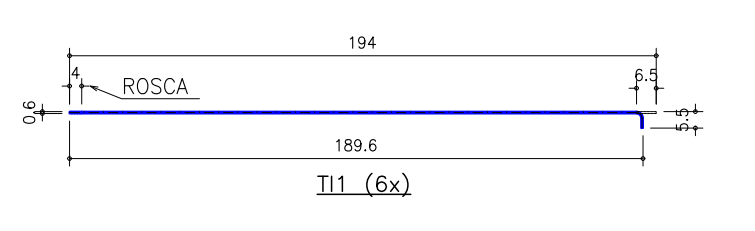
ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITÁRIO	PESO TOTAL	ÁREA DE PINTURA
1	2		Treliça Fios 3,4		51,82	103,64	12,88
2	1	L	90x40x2	5595	14,35	57,42	7,41
3	2	14 L	100x50x2,25	90	0,23	3,26	0,38
4	3	16	BARRA RED.	9,53	160	0,09	1,43
5	4	38 2L	25x25x2	282	0,41	15,7	2,1
6	2	2 L	25x25x2	357	0,52	1,05	0,14
7	34	2L	25x25x2	377	0,55	18,8	2,51
8	4	CH	6,35x100	300	1,5	5,98	0,26
PESO TOTAL						103,64 kgf	
ÁREA DE PINTURA							12,88 m²



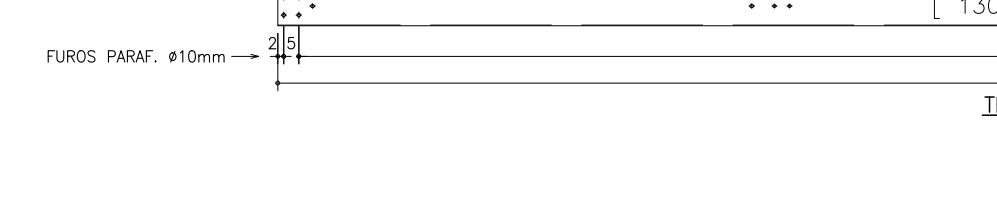
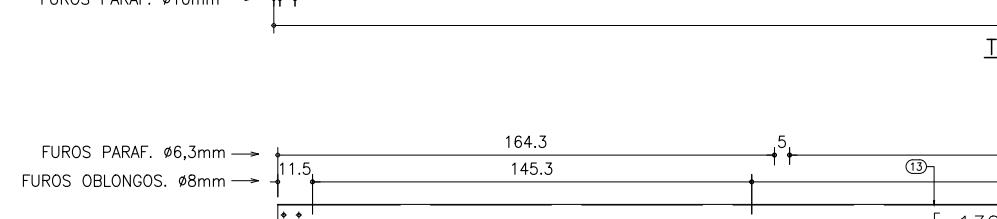
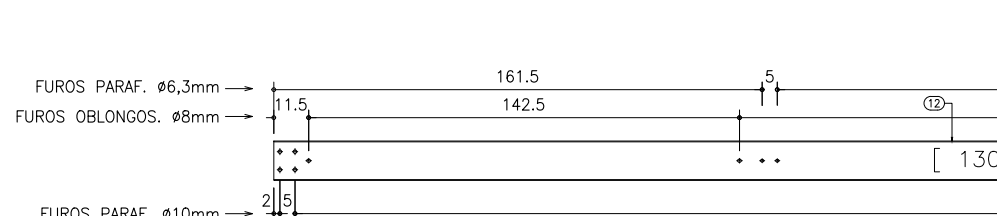
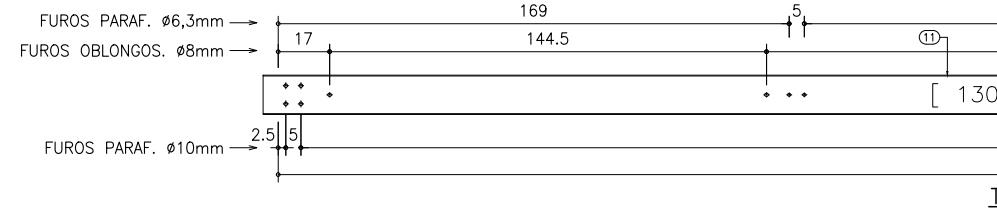
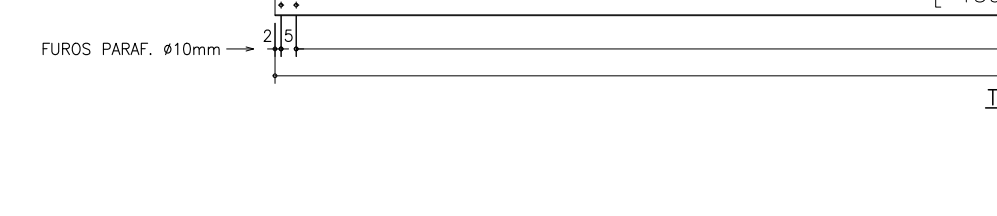
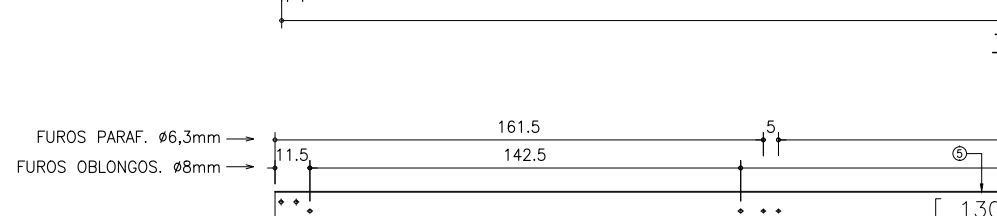
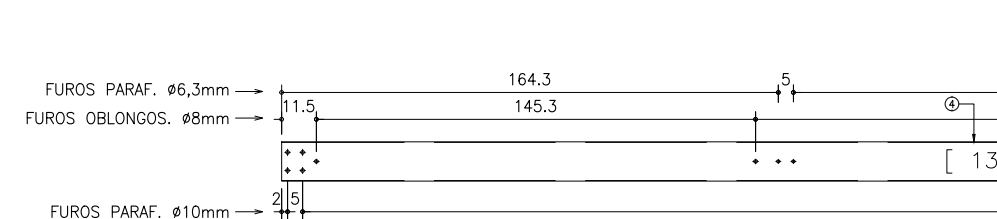
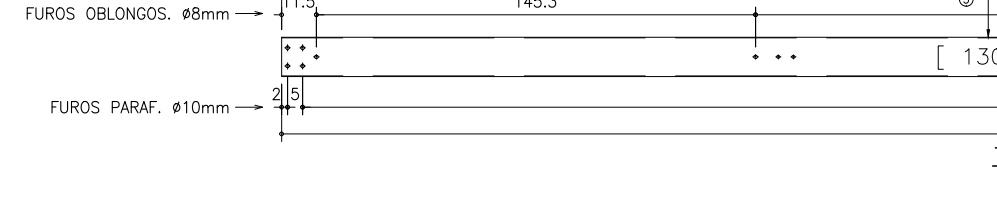
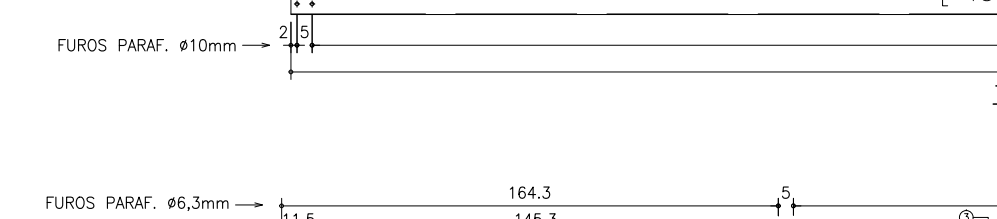
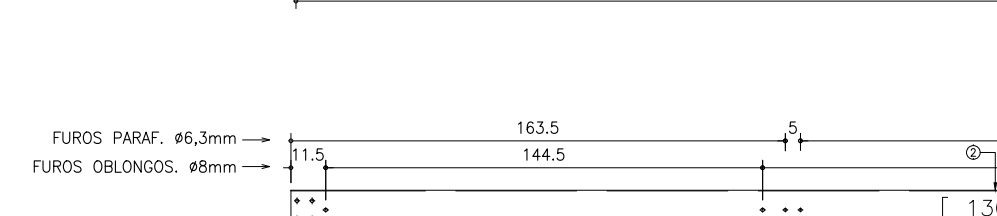
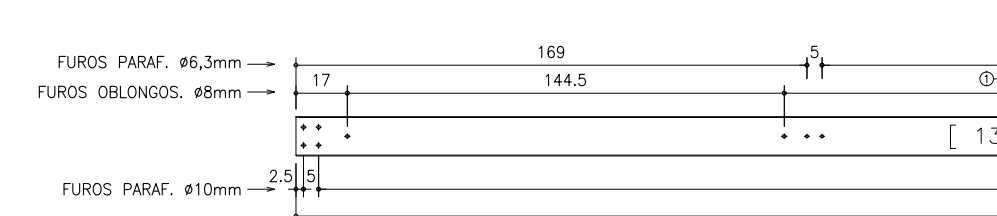
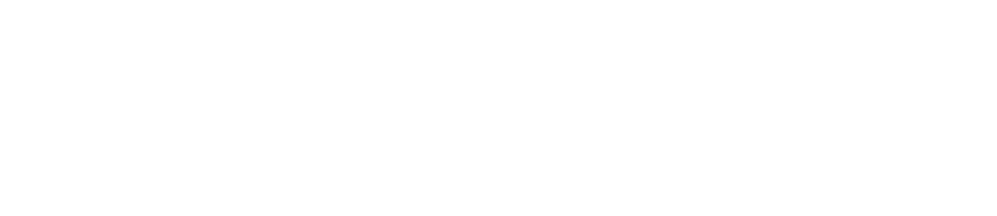
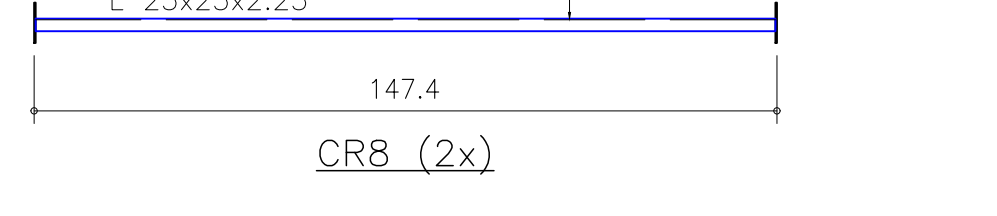
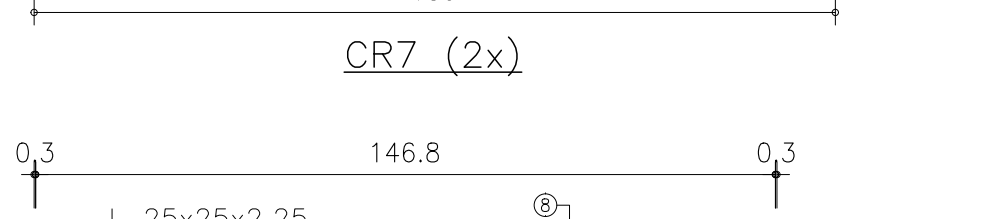
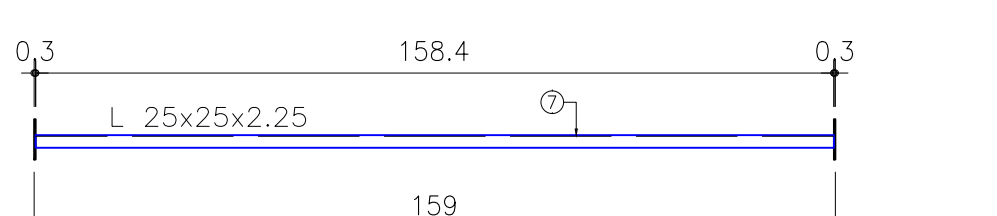
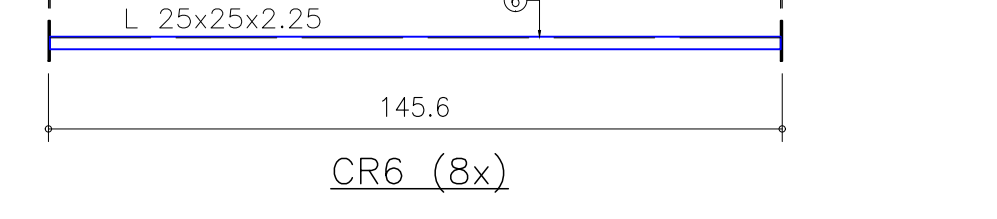
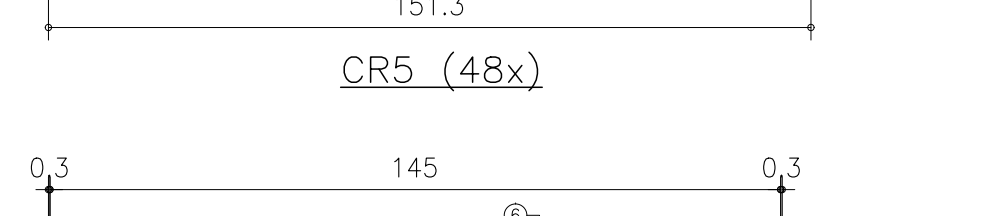
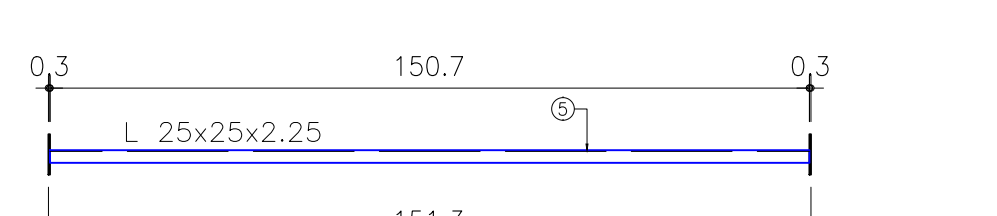
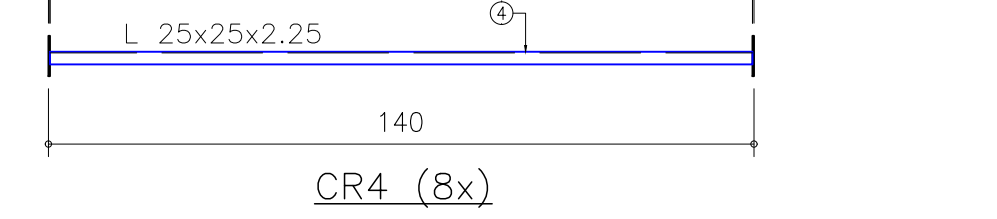
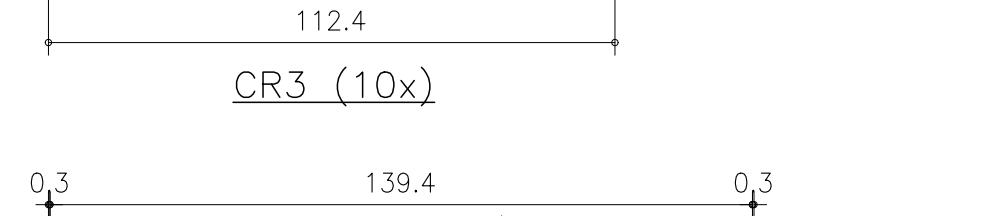
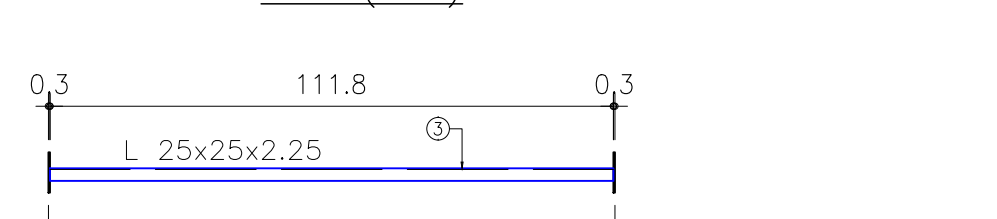
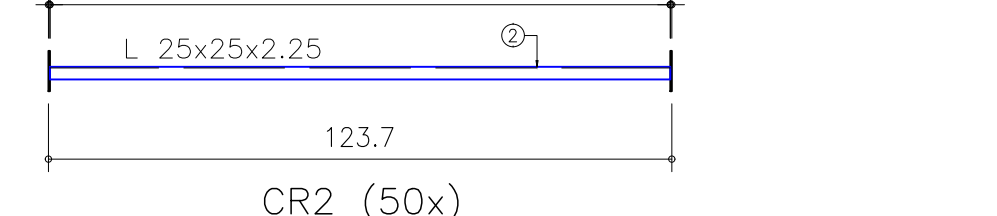
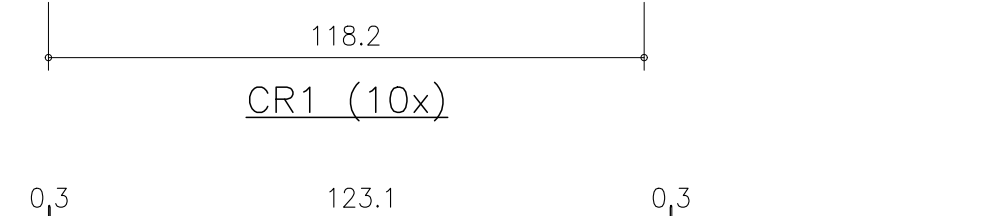
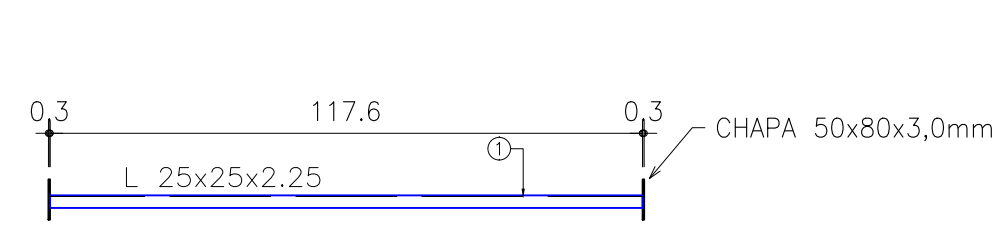
DET. DOS SUPORTES DO RESERVATÓRIO
1/15



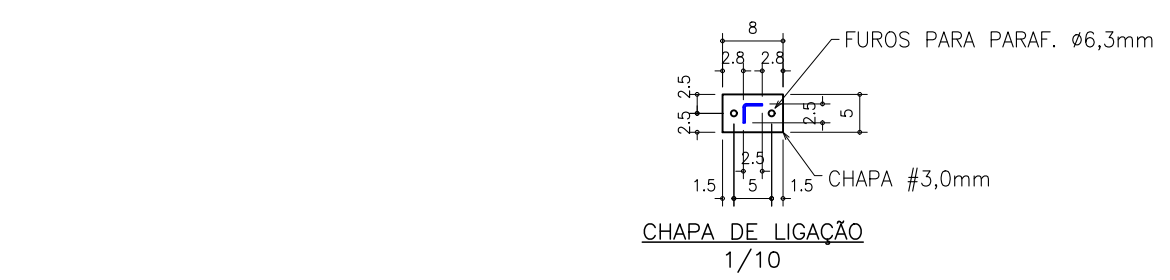
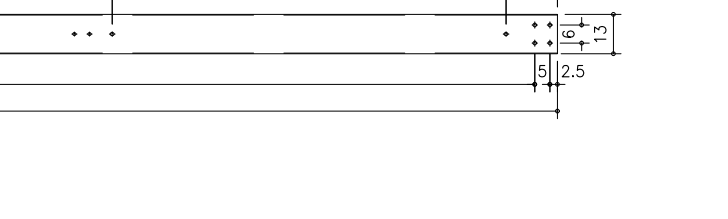
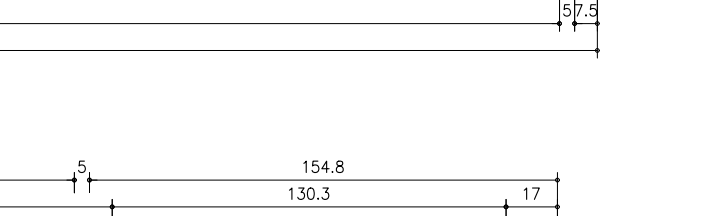
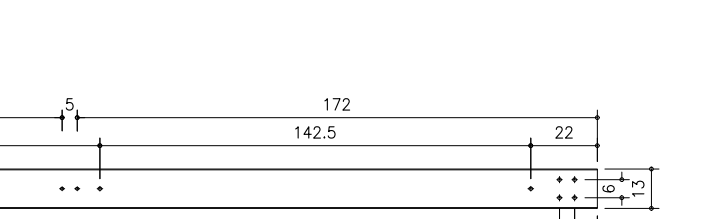
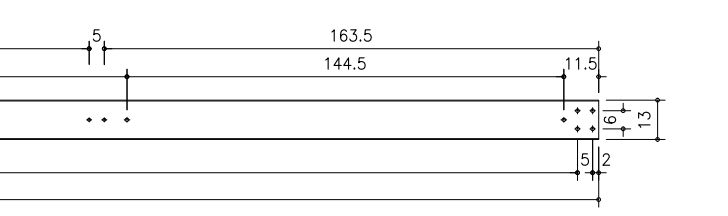
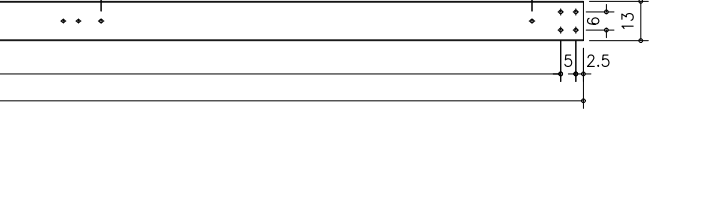
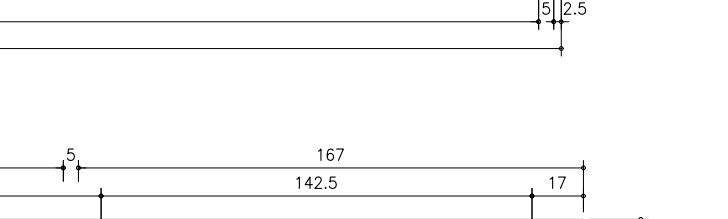
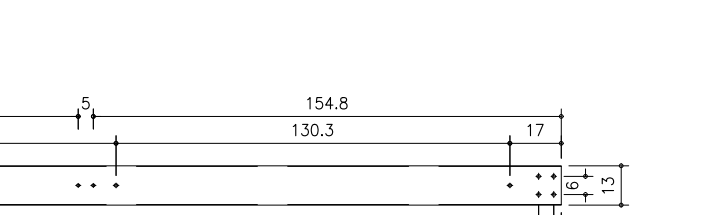
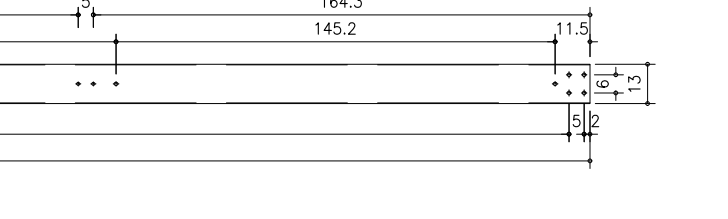
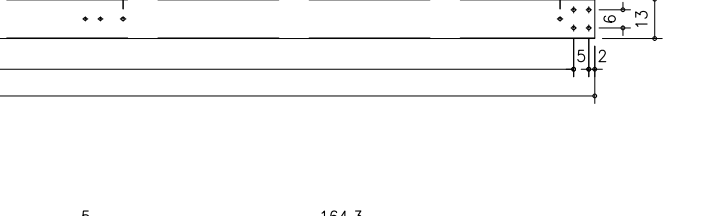
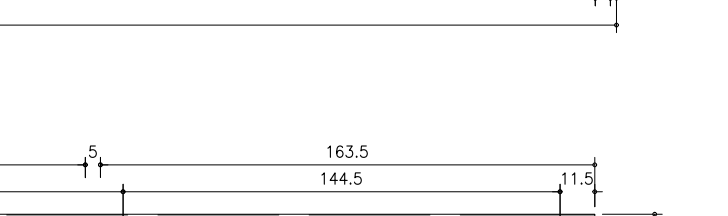
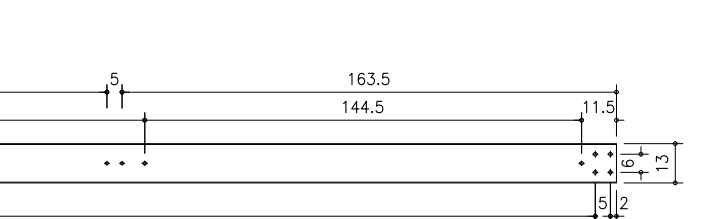
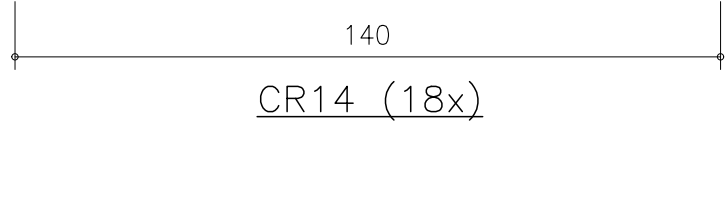
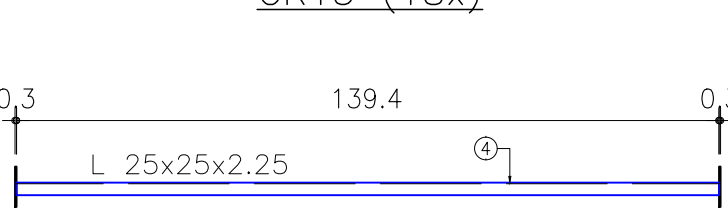
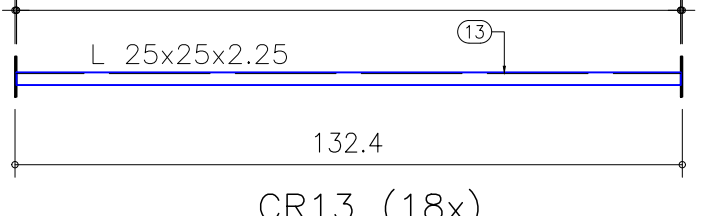
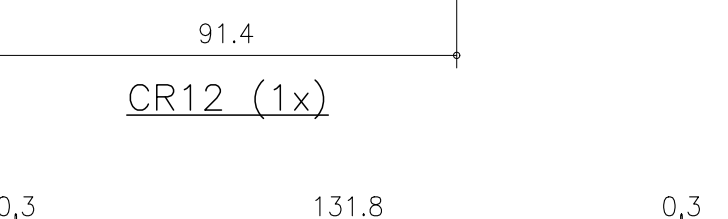
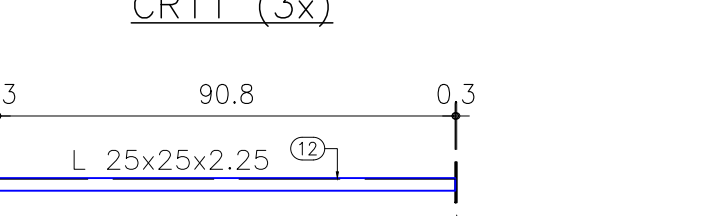
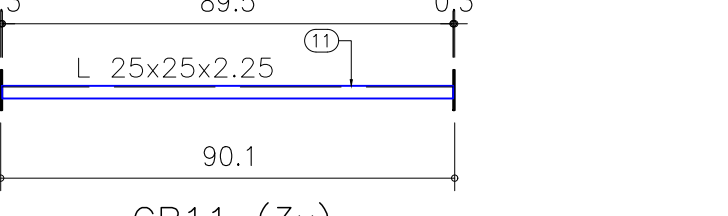
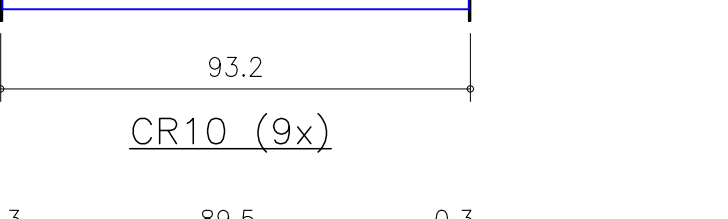
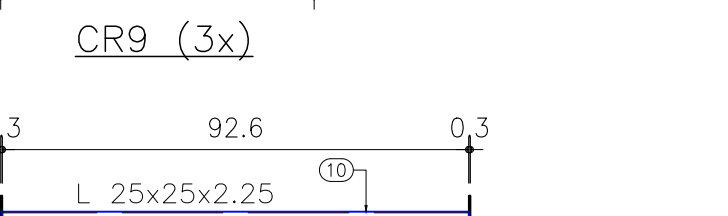
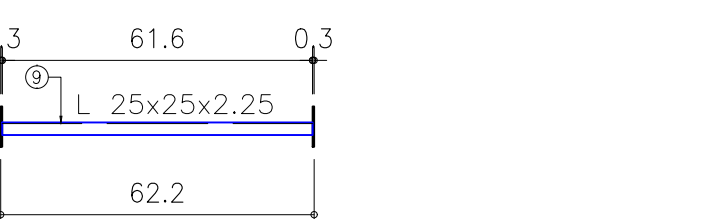
DET. DOS TIRANTES
1/20



DET. DAS CORRENTES RÍGIDAS
1/15



ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITÁRIO	PESO TOTAL	ÁREA DE PINTURA
1	1		Correntes-rígidas		238,82	238,82	27,48
2	10	L	25x25x2,25	1176	0,96	9,62	1,14
3	50	L	25x25x2,25	1231	1,01	50,33	5,99
4	10	L	25x25x2,25	1118	0,91	9,14	1,09
5	26	L	25x25x2,25	1394	1,14	29,64	3,52
6	48	L	25x25x2,25	1507	1,23	59,15	7,03
7	8	L	25x25x2,25	1450	1,19	9,49	1,13
8	2	L	25x25x2,25	1584	1,3	2,59	0,31
9	3	L	25x25x2,25	1468	1,2	2,4	0,29
10	9	L	25x25x2,25	616	0,5	1,51	0,18
11	3	L	25x25x2,25	926	0,76	6,82	0,81
12	1	L	25x25x2,25	895	0,73	2,2	0,26
13	18	L	25x25x2,25	908	0,74	0,74	0,09
14	380	CH	3x50	1318	1,08	19,4	2,31
PESO TOTAL						238,82 kgf	
ÁREA DE PINTURA						27,48 m ²	

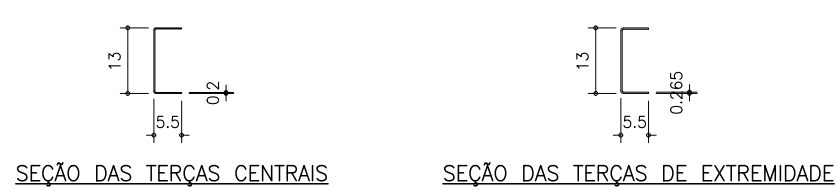
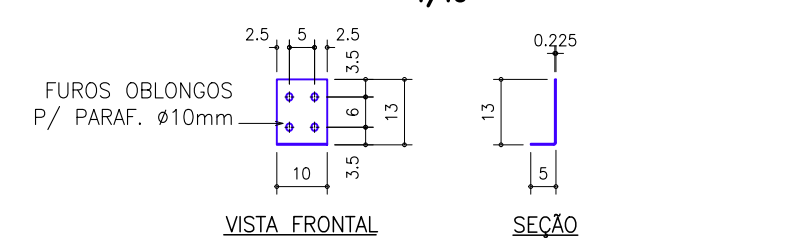


DET. CONTRAVENTAMENTOS
1/30

DET. (2x)	
DET. (2x)	692,1
DET. (2x)	491,7
DET. (2x)	767,5
DET. (2x)	771,7
DET. (2x)	765,2
DET. (2x)	769,4
DET. (2x)	689,2
DET. (2x)	850,7

ITEM	QUANTIDADE	PERFIL	DIMENSÕES	COMPRIMENTO	PESO UNITÁRIO	PESO TOTAL	ÁREA DE PINTURA
1	1		Contraeventamentos		117,09	117,09	4,7
2	2	BARRA RED.	12,7	7652	7,61	15,22	0,61
3	2	BARRA RED.	12,7	7694	7,65	15,3	0,61
4	2	BARRA RED.	12,7	6117	7,63	15,26	0,61
5	2	BARRA RED.	12,7	6117	7,63	15,26	0,61
6	2	BARRA RED.	12,7	6921	7,67	15,35	0,62
7	2	BARRA RED.	12,7	6921	7,67	15,35	0,62
8	2	BARRA RED.	12,7	6892	7,67	15,35	0,62
PESO TOTAL						117,09 kgf	
ÁREA DE PINTURA						4,7 m ²	

DET. DOS SUPORTES
1/15



RESUMO DE MATERIAIS:
Peso total de aço, com perdas de 5% = 9604 kgf
Área total de pintura, sem quebra = 758 m²

ESPECIFICAÇÕES DE MATERIAIS:

Perfis, chapas e chumbadores em aço carbono padrão ASTM A36, com tensão de escoamento mínimo de 250 MPa.

Todas as peças pintadas com primer anticorrosivo, em duas demãos, e acabamento em duas demãos de tinta acrílica.

Todas as soldas de filete, eletrodo E70XX, com perna mínima de 5mm, ao longo de todo o comprimento de contato entre os perfis. Após a solda, fazer o retoque da pintura.

Chumbamento da estrutura nos pilares e vigas através de chumbadores (insertos) pré-concretados nos elementos.

ESCRITÓRIO MODELO DE ENGENHARIA - UFSM

Eng. civil André Lübeck SIAPE 169238 / CREAR 16041		Eng. civil Almir Barros da Silva Santos Neto SIAPE 230082 / CREAR 19276	
PROJETO ESTRUCTURAL Prédio do Restaurante e Salas Multiuso do Colégio Politécnico Endereço: Colégio Politécnico, Cidade Universitária, Av. Roraima, 1000, Santa Maria, RS.		RESPONSÁVEIS TÉCNICOS: PRIMEIRO: Eng. civil André Lübeck SEGUNDO: Eng. civil Almir Barros da Silva Santos Neto	
Elevação eixos 1, 2 e 3 Detalhamento das correntes-rígidas Detalhamento dos tirantes Detalhamento dos contraeventamentos		Escala: Indica PROJETO: EST-M 04/04	