Relação do aço

V1	V2	V3
V4	V5	V6
V7	V8	V9
V10	V11	V12
V13	V14	V15
V16	V17	V18
V19	V20	V21
V22	V23	V24
V25	V26	V27
V28	V29	V30
V31	V32	V33
V34	V35	V36
V37	V38	V39
V40	V41	V42
V43	V44	V45
V46	V47	

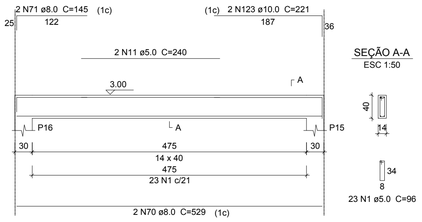
AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	793	96	76128
	2	5.0	4	23	92
	3	5.0	4	76	304
	4	5.0	2	243	486
	5	5.0	2	242	484
	6	5.0	2	268	536
	7	5.0	2	237	474
	8	5.0	2	454	908
	9	5.0	22	116	2552
	10	5.0	4	310	1240
	11	5.0	2	240	480
	12	5.0	2	262	524
	13	5.0	2	235	470
	14	5.0	2	172	344
	15	5.0	2	257	514
CA50	16	6.3	7	73	511
	17	6.3	6	107	642
	18	8.0	8	460	3680
	19	8.0	1	125	125
	20	8.0	2	498	996
	21	8.0	2	475	950
	22	8.0	1	129	129
	23	8.0	2	512	1024
	24	8.0	3	223	669
	25	8.0	1	355	355
	26	8.0	8	459	3672
	27	8.0	4	501	2004
	28	8.0	2	468	936
	29	8.0	2	158	316
	30	8.0	1	161	161
	31	8.0	1	206	206
	32	8.0	2	504	1008
	33	8.0	1	264	264
	34	8.0	2	126	252
	35	8.0	2	183	366
	36	8.0	4	186	744
	37	8.0	4	246	984
	38	8.0	1	263	263
	39	8.0	1	233	233
	40	8.0	4	467	1868
	41	8.0	4	162	648
	42	8.0	4	502	2008
	43	8.0	1	238	238
	44	8.0	2	452	904
	45	8.0	2	170	340
	46	8.0	2	220	440
	47	8.0	2	451	902
	48	8.0	2	171	342
	49	8.0	2	251	502
	50	8.0	1	130	130
	51	8.0	2	501	1002
	52	8.0	1	131	131
	53	8.0	4	242	968
	54	8.0	4	289	1156
	55	8.0	1	123	123
	56	8.0	2	499	998
	57	8.0	2	325	650
	58	8.0	2	355	710
	59	8.0	2	177	354
	60	8.0	2	317	634
	61	8.0	1	134	134
	62	8.0	2	357	714
	63	8.0	2	155	310
	64	8.0	2	215	430
	65	8.0	2	137	274
	66	8.0	2	459	918
	67	8.0	2	505	1010
	68	8.0	4	204	816
	69	8.0	2	250	500
	70	8.0	4	529	2116
	71	8.0	2	145	290
	72	8.0	4	196	784
	73	8.0	1	305	305
	74	8.0	2	477	954
	75	8.0	2	357	714
	76	8.0	2	231	462
	77	8.0	1	272	272
	78	8.0	2	281	562
	79	8.0	2	509	1018
	80	8.0	1	144	144
	81	8.0	2	194	388
	82	8.0	2	151	302
	83	8.0	2	180	360
	84	8.0	1	256	256
	85	8.0	2	248	496
	86	8.0	2	340	680
	87	8.0	1	145	145
	88	8.0	1	185	185
	89	8.0	1	555	555
	90	8.0	2	854	1708
	91	8.0	2	247	494
	92	8.0	2	294	588
	93	8.0	2	326	652
	94	8.0	2	372	744
	95	8.0	2	215	430
	96	8.0	2	253	506
	97	8.0	1	232	232
	98	8.0	2	318	636
	99	8.0	2	324	648
	100	8.0	2	370	740
	101	8.0	2	331	662
	102	8.0	2	379	758
	103	8.0	1	154	154
	104	8.0	2	170	340
	105	8.0	2	577	1154
	106	8.0	1	278	278
	107	8.0	2	462	924
	108	8.0	2	175	350
	109	8.0	2	235	470
	110	8.0	1	93	93
	111	8.0	2	372	744
	112	8.0	1	79	79
	113	8.0	2	246	492
	114	8.0	1	264	264
	115	8.0	2	270	540
	116	8.0	4	311	1244
	117	8.0	1	117	117
	118	8.0	2	207	414
	119	8.0	2	230	460
	120	10.0	10	96	960
	121	10.0	2	509	1018
	122	10.0	2	612	1224
	123	10.0	2	221	442
	124	10.0	1	172	172
	125	10.0	2	252	504
	126	10.0	1	166	166
	127	10.0	2	251	502
	128	10.0	2	413	826
	129	10.0	1	255	255
	130	10.0	2	469	938
	131	10.0	1	155	155
	132	10.0	2	519	1038
	133	10.0	1	195	195
	134	10.0	2	529	1058
	135	10.0	1	197	197
	136	10.0	1	182	182
	137	10.0	2	588	1176
	138	10.0	2	452	904
	139	10.0	1	155	155
	140	10.0	2	255	510
	141	10.0	2	430	860
	142	12.5	2	508	1016
	143	12.5	2	475	950
	144	12.5	1	610	610
	145	12.5	2	617	1234

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	11.6	3.1
	8.0	674	292.5
	10.0	134.4	91.1
	12.5	38.1	40.4
CA60	5.0	855.4	145
PESO TOTAL			
CA50	427.1		
CA60	145		

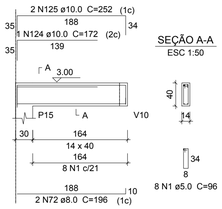
Vol. de concreto total (C-25) = 10.41 m³
Área de forma total = 174.54 m²

V23
ESC 1:50



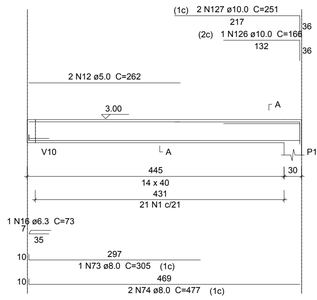
SEÇÃO A-A
ESC 1:50

V24
ESC 1:50



SEÇÃO A-A
ESC 1:50

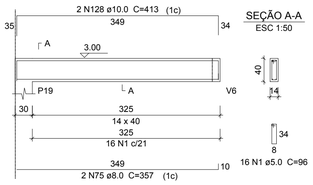
V25
ESC 1:50



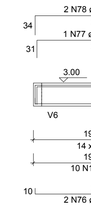
SEÇÃO A-A
ESC 1:50



V26
ESC 1:50



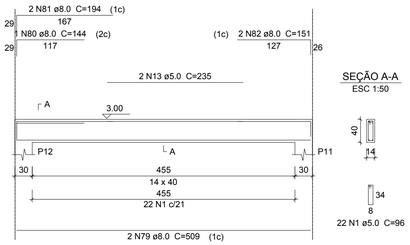
SEÇÃO A-A
ESC 1:50



V27
ESC 1:50

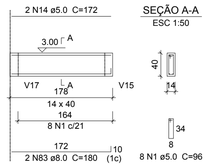
SEÇÃO A-A
ESC 1:50

V28
ESC 1:50



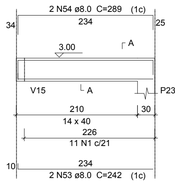
SEÇÃO A-A
ESC 1:50

V29
ESC 1:50



SEÇÃO A-A
ESC 1:50

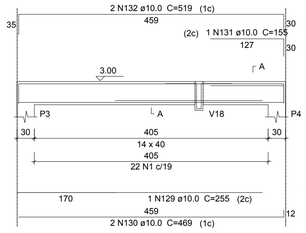
V30
ESC 1:50



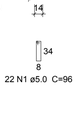
SEÇÃO A-A
ESC 1:50



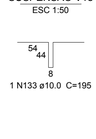
V31
ESC 1:50



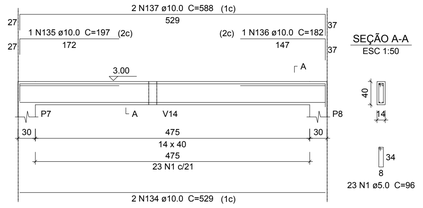
SEÇÃO A-A
ESC 1:50



SUSPENSÃO V18
ESC 1:50

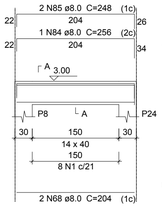


V32
ESC 1:50

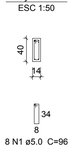


SEÇÃO A-A
ESC 1:50

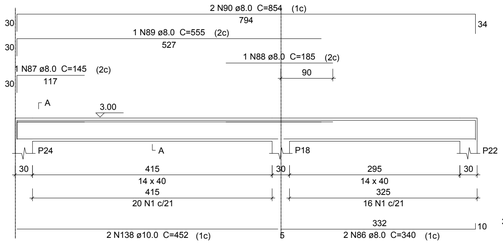
V33
ESC 1:50



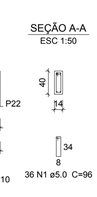
SEÇÃO A-A
ESC 1:50



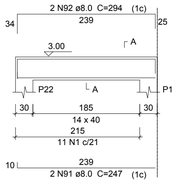
V34
ESC 1:50



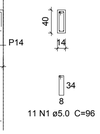
SEÇÃO A-A
ESC 1:50



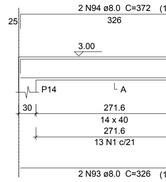
V35
ESC 1:50



SEÇÃO A-A
ESC 1:50



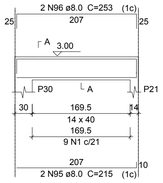
V36
ESC 1:50



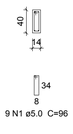
SEÇÃO A-A
ESC 1:50



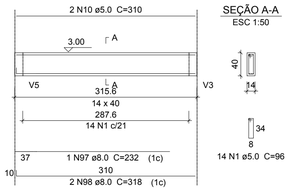
V37
ESC 1:50



SEÇÃO A-A
ESC 1:50

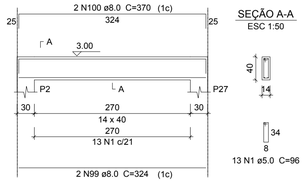


V38
ESC 1:50



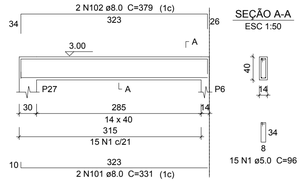
SEÇÃO A-A
ESC 1:50

V39
ESC 1:50



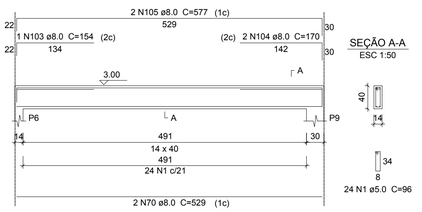
SEÇÃO A-A
ESC 1:50

V40
ESC 1:50



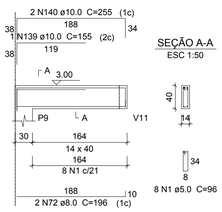
SEÇÃO A-A
ESC 1:50

V41
ESC 1:50



SEÇÃO A-A
ESC 1:50

V42
ESC 1:50



SEÇÃO A-A
ESC 1:50

V43
ESC 1:50

SEÇÃO A-A
ESC 1:50

APROVAÇÃO:

Engeobra
CREA SC 158.454-0
ENGENHARIA E INFRAESTRUTURA

Rua Primo Tacca, 350, Bairro Tacca - Xanxerê- SC
E-mail:engenharia.engeobra@gmail.com Cel: (49) 9 9976-0226

OBRA:
COMPLEXO ESPORTIVO

LOCAL:
Rua Governador Irineu Bornhausen, Bairro Flor, Xaxim - SC

PROJETO:
ESTRUTURAL

ESPECIFICAÇÕES:
- Vigas de cobertura

DATA: 04/2021

DESENHO: T.L

ÁREA: 313,76 m²

ESCALA: Indicada

PRANCHA: 07 /10

Projeto:
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Dados: 2021.04.26 13:25:29 -03'00'
SAMUEL SPESSATTO OUTEIRO
Engº Civil- CREA SC 133319-7

Proprietário:
EDILSON ANTONIO FOLLE:50959670904
Assinado de forma digital por EDILSON ANTONIO FOLLE:50959670904
Dados: 2021.04.26 14:50:54 -03'00'
PREFEITURA MUNICIPAL DE XAXIM

10 VIGAS DA COBERTURA
ESCALA: 1/50