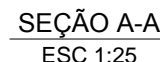
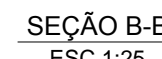
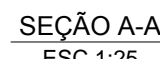
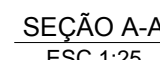
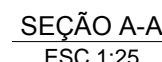
RELAÇÃO DO AÇO

V14 V17	V12 V15 V18	V13 V16 V19			
AÇO	N	DIAM mm	Q.UNIT mm	C.UNIT mm	C.TOTAL mm
CAB01	1	5,0	348	117	40716
	2	5,0	35	147	5140
	3	5,0	100	137	13700
	4	5,0	8	529	4230
CA50	5	6,3	1	50	70
	6	6,3	8	57	4456
	7	6,3	12	588	7056
	8	6,3	6	1039	6234
	9	8,0	2	81	162
	10	8,0	1	562	562
	11	10,0	2	319	638
	12	10,0	2	887	1774
	13	10,0	12	101	1212
	14	10,0	2	269	538
	15	10,0	2	302	604
	16	10,0	2	1037	2074
	17	10,0	1	310	310
	18	10,0	2	1037	2074
	19	10,0	2	282	564
	20	10,0	3	634	1268
	21	10,0	2	504	1008
	22	10,0	1	124	124
	23	10,0	2	639	1278
	24	10,0	4	688	2752
	25	10,0	2	1022	2044
	26	10,0	1	225	225
	27	10,0	1	190	190
	28	10,0	1	172	172
	29	10,0	2	1198	2396
	30	10,0	2	663	1326
31	10,0	3	1600	3200	
32	10,0	1	320	320	
33	10,0	1	360	360	
34	10,0	2	1039	2078	
35	10,0	2	355	710	
36	10,0	2	601	1202	
37	12,5	2	620	1240	
38	12,5	2	582	1164	
39	12,5	2	608	1216	
40	12,5	2	571	1142	
41	12,5	1	283	283	
42	12,5	2	602	1204	
43	12,5	2	591	1182	
44	12,5	4	556	2224	
45	12,5	2	621	1242	
46	12,5	2	610	1220	
47	12,5	1	315	315	
48	12,5	2	1071	2142	
49	16,0	1	325	325	
50	16,0	1	1196	1196	
51	16,0	1	231	231	
52	16,0	1	3081	3081	
53	16,0	1	346	346	
54	16,0	1	345	345	
55	16,0	1	1143	1143	
56	16,0	1	265	265	
57	16,0	1	1085	1085	
58	16,0	1	323	323	
59	16,0	1	335	335	
60	16,0	2	941	1882	
61	16,0	2	646	1292	

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
-----	--------------	----------------	--------------------

Volume de concreto (C-30) = 8.03 m³
Área de forma = 120.08 m²



funcional
ARQUITETURA

OTTO
Engenharia 

INTERBLU

OBRAS/LOCAL
RUA 2300
CENTRO
BALNEÁRIO CAMBORIU - SC

TÍTULO

VIGAS SUPERIOR 02 - 02/03 (Nv. Ref. +7.20)

RESPONSÁVEL TÉCNICO
ANDRÉ VINÍCIUS PAVANELLO
ENG CIVIL
CREA/SC 136749-3

GUSTAVO ZIMMERMAN, 10205 - ITUPAVA CENTRAL - BLUMENAU/SC
 FONE (047) 901288288 e-mail: gto.angelaris@hotmail.com

DIREITOS AUTORAIS RESERVADOS: - Decreto Federal nº23.569 de 11/12/33. - Lei Federal nº5.194 de 24/12/66. - Lei Federal nº5.988/73 e Lei Federal nº9.610/98. (Regulamentam o Direito Autoral) - Resolução nº205 de 30/12/70 do CONFEA. (Ética Profissional) - Resolução nº218 de 29/06/73 do CONFEA (Atribuições Profissional)

