

Relação do aço					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
S1	CA60	1	5.0	100	95
	CA50	2	8.0	240	121
	CA50	3	12.5	40	200
S12	CA60	4	5.0	13	65
	CA50	5	8.0	11	146
	CA50	6	8.0	13	131
S13	CA50	7	10.0	4	193
	CA60	8	5.0	26	65
	CA50	9	8.0	32	141
7xS14	CA50	10	8.0	26	156
	CA50	11	10.0	10	193
	CA60	12	5.0	91	65
S15	CA50	13	8.0	91	126
	CA50	14	8.0	77	141
	CA50	15	10.0	28	193
S16	CA60	16	5.0	10	65
	CA50	17	8.0	60	136
	CA50	18	10.0	12	150
S17	CA50	19	12.5	6	200
	CA60	20	5.0	52	65
	CA50	21	8.0	60	136
3xS34	CA50	22	8.0	48	151
	CA50	23	10.0	18	193
	CA60	24	5.0	13	65
2xS63	CA50	25	8.0	8	121
	CA50	26	8.0	100	106
	CA50	27	10.0	4	193
S66	CA60	28	5.0	39	65
	CA50	29	8.0	39	131
	CA50	30	8.0	33	146
S86	CA50	31	10.0	12	193
	CA60	32	5.0	20	95
	CA50	33	10.0	24	100
2xS98	CA50	34	12.5	8	157
	CA60	35	5.0	13	65
	CA50	36	8.0	12	156
S100	CA50	37	8.0	16	136
	CA50	38	10.0	4	193
	CA60	39	5.0	135	75
S101	CA50	40	5.0	13	65
	CA50	41	10.0	12	193
	CA50	42	10.0	20	165
S105	CA50	43	10.0	24	145
	CA60	44	5.0	20	81
	CA50	45	10.0	24	140
5xS106	CA50	46	10.0	20	155
	CA50	47	16.0	16	209
	CA60	48	5.0	24	135
S107	CA50	49	10.0	60	145
	CA50	50	16.0	12	209
	CA60	51	5.0	40	135
S108	CA50	52	10.0	145	155
	CA50	53	16.0	20	209
	CA60	54	5.0	125	95
S110	CA50	55	8.0	384	156
	CA50	56	12.5	48	200
	CA60	57	5.0	65	65
S115	CA50	58	8.0	60	116
	CA50	59	8.0	50	131
	CA50	60	10.0	20	193
S116	CA60	61	5.0	138	95
	CA50	62	10.0	312	170
	CA50	63	12.5	48	200
12xS117	CA50	64	16.0	8	209
	CA60	65	5.0	113	95
	CA60	66	5.0	111	110
2xS153	CA50	67	10.0	336	180
	CA50	68	12.5	44	200
	CA50	69	16.0	8	209
S156	CA60	70	5.0	181	95
	CA50	71	10.0	432	165
	CA50	72	12.5	64	200
S165	CA50	73	16.0	16	209
	CA50	74	5.0	250	95
	CA50	75	8.0	616	141
7xS189	CA50	76	12.5	88	200
	CA60	77	5.0	13	83
	CA50	78	8.0	24	136
S191	CA50	79	10.0	6	193
	CA60	80	5.0	108	79
	CA50	81	8.0	84	86
2xS192	CA50	82	8.0	72	96
	CA50	83	10.0	48	143
	CA60	84	5.0	20	95
3xS193	CA50	85	8.0	40	106
	CA50	86	12.5	8	200
	CA60	87	5.0	180	95
S194	CA50	88	8.0	442	131
	CA50	89	12.5	68	200
	CA60	90	5.0	253	95
S195	CA50	91	5.0	13	83
	CA60	92	5.0	8	111
	CA60	93	5.0	16	40
S196	CA50	94	8.0	810	151
	CA50	95	10.0	6	193
	CA50	96	12.5	100	200
S201	CA50	97	16.0	16	209
	CA60	98	5.0	91	65
	CA50	99	8.0	84	121
S206	CA50	100	8.0	77	136
	CA50	101	10.0	28	193
	CA60	102	5.0	13	55
2xS217	CA50	103	8.0	13	141
	CA50	104	8.0	14	126
	CA50	105	10.0	4	193
2xS221	CA60	106	5.0	26	65
	CA50	107	8.0	24	151
	CA50	108	8.0	30	136
	CA50	109	10.0	12	193
	CA50	110	5.0	38	65
	CA50	111	8.0	30	136
	CA50	112	8.0	36	121
	CA50	113	10.0	12	193
	CA60	114	5.0	13	85
	CA50	115	8.0	10	131
	CA50	116	8.0	12	116
	CA50	117	10.0	4	193
	CA60	118	5.0	13	55
	CA50	119	8.0	6	91
	CA50	120	8.0	7	86
	CA50	121	10.0	4	158
	CA60	122	5.0	10	65
	CA50	123	10.0	14	160
	CA50	124	10.0	12	175
	CA50	125	12.5	6	200
	CA60	126	5.0	20	95
	CA50	127	10.0	60	185
	CA50	128	12.5	8	200
	CA60	129	5.0	10	95
	CA50	130	10.0	34	195
	CA50	131	12.5	4	200
	CA60	132	5.0	26	65
	CA50	133	8.0	22	136
	CA50	134	8.0	24	121
	CA50	135	10.0	8	193
	CA60	136	5.0	26	65
	CA50	137	8.0	24	126
	CA50	138	8.0	20	141
	CA50	139	10.0	8	193

Relação do aço					
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)
S227	CA60	140	5.0	13	105
	CA60	141	5.0	13	36
	CA50	142	8.0	10	131
S84-85	CA50	143	8.0	11	126
	CA50	144	10.0	6	193
	CA60	145	5.0	8	135
S102-103	CA60	146	5.0	10	95
	CA60	147	5.0	7	711
	CA50	148	12.5	4	200
2xSM1	CA50	149	12.5	32	278
	CA60	150	12.5	28	196
	CA50	151	16.0	4	209
	CA60	152	5.0	8	135
	CA60	153	5.0	10	95
	CA60	154	5.0	7	681
	CA50	155	12.5	4	200
	CA50	156	12.5	14	288
	CA50	157	12.5	17	253
	CA50	158	12.5	12	206
	CA50	159	12.5	15	171
	CA60	160	16.0	4	209
	CA60	161	5.0	14	355
	CA60	162	5.0	28	135
	CA60	163	5.0	56	65
	CA60	164	5.0	6	561
	CA50	165	10.0	32	150
	CA50	166	10.0	20	215
	CA60	167	10.0	32	123
	CA50	168	10.0	20	188
	CA50	169	16.0	32	156

Resumo do aço			
AÇO	DIAM (mm)	C. TOTAL (m)	PESO + 10 % (kg)
CA50	8.0	5179.3	2248
	10.0	3130.1	2122.8
	12.5	1370.1	1451.9
CA60	5.0	2281.3	386.8
PESO TOTAL (kg)			
CA50	6286.7		
CA60	386.8		
Volume de concreto (C-35) = 141.42 m³			
Área de forma = 513.79 m²			

Relação do aço			
ELEMENTO	AÇO	N	DIAM (mm)
S1	CA60	1	5.0
	CA50	2	8.0
	CA50	3	12.5
S12	CA60	4	5.0
	CA50	5	8.0
	CA50	6	8.0
S13	CA50	7	10.0
	CA60	8	5.0
	CA50	9	8.0
7xS14	CA50	10	8.0
	CA60	11	10.0
	CA60	12	5.0
S15	CA50	13	8.0
	CA50	14	8.0
	CA50	15	10.0
S16	CA60	16	5.0
	CA50	17	8.0
	CA50	18	10.0
S17	CA50	19	12.5
	CA60	20	5.0
	CA50	21	8.0
3xS34	CA50	22	8.0
	CA50	23	10.0
	CA60	24	5.0
2xS63	CA50	25	8.0
	CA50	26	8.0
	CA50	27	10.0
S66	CA60	28	5.0
	CA50	29	8.0
	CA50	30	8.0
S86	CA50	31	10.0
	CA60	32	5.0
	CA50	33	10.0
2xS98	CA50	34	12.5
	CA60	35	5.0
	CA50	36	8.0
S100	CA50	37	8.0
	CA50	38	10.0
	CA60	39	5.0
S101	CA50	40	5.0
	CA50	41	10.0
	CA50	42	10.0
S105	CA50	43	10.0
	CA60	44	5.0
	CA50	45	10.0
5xS106	CA50	46	10.0
	CA50	47	16.0
	CA60	48	5.0
S107	CA50	49	10.0
	CA50	50	16.0
	CA60	51	5.0
S108	CA50	52	10.0
	CA50	53	16.0
	CA60	54	5.0
S110	CA50	55	8.0
	CA50	56	12.5
	CA60	57	5.0
S115	CA50	58	8.0
	CA50	59	8.0
	CA50	60	10.0
S116	CA60		