



RELAÇÃO DO AÇO				
AÇO	N	DIAM (mm)	QUANT	C.TOTAL
V9				
CABO	1	5,0	705	111
	2	5,0	225	450
	3	5,0	4	20
	4	5,0	2	296
	5	5,0	2	544
	6	5,0	2	272
	7	5,0	2	295
	8	5,0	2	594
	9	5,0	2	270
	10	5,0	2	270
	11	5,0	2	342
	12	5,0	2	235
	13	5,0	2	470
	14	5,0	2	260
	15	5,0	2	250
	16	5,0	2	250
	17	8,0	2	500
	18	8,0	2	533
	19	8,0	2	1120
	20	8,0	2	242
	21	8,0	2	529
	22	8,0	2	1058
	23	8,0	2	551
	24	8,0	2	1102
	25	8,0	2	81
	26	8,0	2	57
	27	8,0	2	11
	28	8,0	2	53
	29	8,0	2	83
	30	8,0	2	143
	31	8,0	2	430
	32	8,0	2	172
	33	8,0	2	652
	34	8,0	2	272
	35	8,0	2	378
	36	8,0	2	307
	37	8,0	2	307
	38	8,0	2	332
	39	8,0	2	166
	40	8,0	2	183
	41	8,0	2	272
	42	8,0	2	272
	43	8,0	2	378
	44	8,0	2	307
	45	8,0	2	307
	46	8,0	2	332
	47	8,0	2	166
	48	8,0	2	183
	49	8,0	2	272
	50	8,0	2	272
	51	8,0	2	378
	52	8,0	2	307
	53	8,0	2	307
	54	8,0	2	332
	55	8,0	2	166
	56	8,0	2	183
	57	8,0	2	272
	58	8,0	2	272
	59	8,0	2	378
	60	8,0	2	307
	61	8,0	2	307
	62	8,0	2	332
	63	8,0	2	166
	64	8,0	2	183
	65	8,0	2	272
	66	8,0	2	272
	67	8,0	2	378
	68	8,0	2	307
	69	8,0	2	307
	70	8,0	2	332
	71	8,0	2	166
	72	8,0	2	183
	73	8,0	2	272
	74	8,0	2	272
	75	8,0	2	378
	76	8,0	2	307
	77	8,0	2	307
	78	8,0	2	332
	79	8,0	2	166
	80	8,0	2	183
	81	8,0	2	272
	82	8,0	2	272
	83	8,0	2	378
	84	8,0	2	307
	85	8,0	2	307
	86	8,0	2	332
	87	8,0	2	166
	88	8,0	2	183
	89	8,0	2	272
	90	8,0	2	272
	91	8,0	2	378
	92	8,0	2	307
	93	8,0	2	307
	94	8,0	2	332
	95	8,0	2	166
	96	8,0	2	183
	97	8,0	2	272
	98	8,0	2	272
	99	8,0	2	378
	100	8,0	2	307
	101	8,0	2	307
	102	8,0	2	332
	103	8,0	2	166
	104	8,0	2	183
	105	8,0	2	272
	106	8,0	2	272
	107	8,0	2	378
	108	8,0	2	307
	109	8,0	2	307
	110	8,0	2	332
	111	8,0	2	166
	112	8,0	2	183
	113	8,0	2	272
	114	8,0	2	272
	115	8,0	2	378
	116	8,0	2	307
	117	8,0	2	307
	118	8,0	2	332
	119	8,0	2	166
	120	8,0	2	183
	121	8,0	2	272
	122	8,0	2	272
	123	8,0	2	378
	124	8,0	2	307
	125	8,0	2	307
	126	8,0	2	332
	127	8,0	2	166
	128	8,0	2	183
	129	8,0	2	272
	130	8,0	2	272
	131	8,0	2	378
	132	8,0	2	307
	133	8,0	2	307
	134	8,0	2	332
	135	8,0	2	166
	136	8,0	2	183
	137	8,0	2	272
	138	8,0	2	272
	139	8,0	2	378
	140	8,0	2	307
	141	8,0	2	307
	142	8,0	2	332
	143	8,0	2	166
	144	8,0	2	183
	145	8,0	2	272
	146	8,0	2	272
	147	8,0	2	378
	148	8,0	2	307
	149	8,0	2	307
	150	8,0	2	332
	151	8,0	2	166
	152	8,0	2	183
	153	8,0	2	272
	154	8,0	2	272
	155	8,0	2	378
	156	8,0	2	307
	157	8,0	2	307
	158	8,0	2	332
	159	8,0	2	166
	160	8,0	2	183
	161	8,0	2	272
	162	8,0	2	272
	163	8,0	2	378
	164	8,0	2	307
	165	8,0	2	307
	166	8,0	2	332
	167	8,0	2	166
	168	8,0	2	183
	169	8,0	2	272
	170	8,0	2	272
	171	8,0	2	378
	172	8,0	2	307
	173	8,0	2	307
	174	8,0	2	332
	175	8,0	2	166
	176	8,0	2	183
	177	8,0	2	272
	178	8,0	2	272
	179	8,0	2	378
	180	8,0	2	307
	181	8,0	2	307
	182	8,0	2	332
	183	8,0	2	166
	184	8,0	2	183
	185	8,0	2	272
	186	8,0	2	272
	187	8,0	2	378
	188	8,0	2	307
	189	8,0	2	307
	190	8,0	2	332
	191	8,0	2	166
	192	8,0	2	183
	193	8,0	2	272
	194	8,0	2	272
	195	8,0	2	378
	196	8,0	2	307
	197	8,0	2	307
	198	8,0	2	332
	199	8,0	2	166
	200	8,0	2	183
	201	8,0	2	272
	202	8,0	2	272
	203	8,0	2	378
	204	8,0	2	307
	205	8,0	2	307
	206	8,0	2	332
	207	8,0	2	166
	208	8,0	2	183
	209	8,0	2	272
	210	8,0	2	272
	211	8,0	2	378
	212	8,0	2	307
	213	8,0	2	307
	214	8,0	2	332
	215	8,0	2	166
	216	8,0	2	183
	217	8,0	2	272
	218	8,0	2	272
	219	8,0	2	378
	220	8,0	2	307
	221	8,0	2	307
	222	8,0	2	332
	223	8,0	2	166
	224	8,0	2	183
	225	8,0	2	272
	226	8,0	2	272
	227	8,0	2	378
	228	8,0	2	307
	229	8,0	2	307
	230	8,0	2	332
	231	8,0	2	166
	232	8,0	2	183
	233	8,0	2	272
	234	8,0	2	272
	235	8,0	2	378
	236	8,0	2	307
	237	8,0	2	307
	238	8,0	2	332
	239	8,0	2	166
	240	8,0	2	183
	241	8,0	2	272
	242	8,0	2	272
	243	8,0	2	378
	244	8,0	2	307
	245	8,0	2	307
	246	8,0	2	332
	247	8,0	2	166
	248	8,0	2	183
	249	8,0	2	272
	250	8,0	2	272
	251	8,0	2	378
	252	8,0	2	307
	253	8,0	2	307
	254	8,0	2	332
	255	8,0	2	166
	256	8,0	2	183
	257	8,0	2	272
	258	8,0	2	272
	259	8,0	2	378
	260	8,0	2	307
	261	8,0	2	307
	262	8,0	2	332
	263	8,0	2	166
	264	8,0	2	183
	265	8,0	2	272
	266	8,0	2	272
	267	8,0	2	378
	268	8,0	2	307
	269	8,0	2	307
	270	8,0	2	332
	271	8,0	2	166
	272	8,0	2	183
	273	8,0	2	272
	274	8,0	2	272
	275	8,0	2	378
	276	8,0	2	307
	277	8,0	2	307
	278	8,0	2	332
	279	8,0	2	166
	280	8,0	2	183
	281	8,0	2	272
	282	8,0	2	272
	283	8,0	2	378
	284	8,0	2	307
	285	8,0	2	307
	286	8,0	2	332
	287	8,0	2	166
	288	8,0	2	183
	289	8,0	2	272
	290	8,0	2	272
	291	8,0	2	378
	292	8,0	2	307
	293	8,0	2	307
	294	8,0	2	332
	295	8,0	2	166
	296	8,0	2	183
	297	8,0	2	272
	298	8,0	2	272
	299	8,0	2	378
	300	8,0	2	307

RESUMO DO AÇO				
AÇO	DIAM (mm)	C.TOTAL (kg)	PESO - 10% (kg)	PESO (kg)
CABO	6,3	57	5,7	15,3
	8,0	464	46,4	201,4
	10,0	77	7,7	20,1
	5,0	872,3	87,23	147,9
<b>PESO TOTAL</b>				
CABO			239,1	
CABO			147,9	
Volume de concreto (C-30) = 9,50 m³				
Area de forma = 118,72 m²				

**PROJETO ESTRUTURAL**