



RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C TOTAL (cm)	C TOTAL (cm)
VB1	CA60	1	5.0	49	91	4459
	CA60	3	8.0	2	285	598
	CA60	3	8.0	1	285	285
	CA60	4	8.0	2	1023	2046
	CA60	6	8.0	2	158	316
	CA60	10	10.0	2	175	350
VB2	CA60	1	5.0	49	91	4459
	CA60	2	5.0	2	285	570
	CA60	3	8.0	1	285	285
	CA60	3	8.0	1	1045	2090
	CA60	5	8.0	2	154	308
	CA60	6	8.0	2	214	428
VB3	CA60	1	5.0	49	91	4459
	CA60	2	8.0	2	611	1222
	CA60	2	8.0	2	486	972
	CA60	4	8.0	1	130	260
	CA60	5	8.0	1	160	320
	CA60	7	8.0	2	1122	2244
VB4	CA60	1	5.0	38	91	2021
	CA60	2	8.0	2	693	1386
	CA60	3	8.0	1	110	220
	CA60	4	8.0	1	112	224
	CA60	5	8.0	2	713	1426
	CA60	10	10.0	2	285	570
VB5	CA60	1	5.0	26	91	1160
	CA60	2	8.0	2	580	1160
	CA60	3	8.0	2	255	510
	CA60	3	8.0	1	693	1386
	CA60	4	8.0	1	165	330
	CA60	7	8.0	2	349	698
VB6	CA60	1	5.0	46	91	4186
	CA60	2	8.0	2	285	570
	CA60	3	8.0	2	1030	2060
	CA60	3	8.0	2	180	360
	CA60	5	8.0	1	87	174
	CA60	6	8.0	2	626	1252
VB7	CA60	1	5.0	49	91	4459
	CA60	2	8.0	2	864	1728
	CA60	3	8.0	1	165	330
	CA60	3	8.0	1	349	698
	CA60	6	8.0	2	129	258
	CA60	10	10.0	2	285	570
VB8	CA60	1	5.0	49	91	4459
	CA60	2	8.0	2	145	290
	CA60	3	8.0	2	1047	2094
	CA60	6	8.0	2	200	400
	CA60	8	8.0	2	185	370
	CA60	10	10.0	2	595	1190
VB9	CA60	1	5.0	56	114	5066
	CA60	2	8.0	2	622	1244
	CA60	3	8.0	2	405	810
	CA60	4	8.0	2	1117	2234
	CA60	5	8.0	2	195	390
	CA60	10	10.0	2	2997	5994
VB10	CA60	1	5.0	27	111	2234
	CA60	2	5.0	2	382	764
	CA60	3	8.0	2	693	1386
	CA60	4	8.0	2	238	476
	CA60	5	8.0	2	162	324
	CA60	10	10.0	2	38	76
VB11	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	625	1250
	CA60	3	8.0	1	841	1682
	CA60	3	8.0	2	836	1672
	CA60	3	8.0	1	844	1688
	CA60	10	10.0	1	348	696
VB12	CA60	1	5.0	38	91	1650
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB13	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB14	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB15	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB16	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB17	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB18	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB19	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB20	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB21	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB22	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB23	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB24	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB25	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB26	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB27	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB28	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB29	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB30	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB31	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB32	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB33	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB34	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB35	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB36	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB37	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB38	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1390
VB39	CA60	1	5.0	38	91	1650
	CA60	2	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	3	8.0	2	844	1688
	CA60	10	10.0	2	695	1