



**TABELA DE MATERIAIS**

ESTRUT	AÇO	POSICÃO	BITOLA (mm)	QUANTIDADES		COMPRIMENTO		PESO		
				ESTRU	POSICÃO	TOTAL	UNIT. (cm)	TOTAL	UNIT. (Kg/m)	TOTAL
V01 = V07	50	1	6.3	2	179	358	145	519.10	0.245	127.18
	50	2	6.3	2	44	60	215	129.00	0.245	31.61
	50	3	8.0	2	2	4	2820	112.80	0.395	44.56
	50	4	10.0	2	2	4	260	83.20	0.617	51.33
	50	5	12.5	2	6	12	1200	144.00	0.963	138.67
	50	6	12.5	2	2	4	438	175.52	0.963	16.87
	50	7	12.5	2	2	4	1200	48.00	0.963	46.22
	50	8	12.5	2	2	4	420	16.80	0.963	16.18
	50	9	12.5	2	4	8	466	37.28	0.963	35.90
	50	10	12.5	2	2	4	537	21.48	0.963	20.69
	50	11	12.5	2	3	6	290	17.40	0.963	16.76
	50	12	12.5	2	3	6	788	47.28	0.963	45.36
	50	13	12.5	2	2	4	757	30.28	0.963	29.16
	50	14	12.5	2	3	6	660	39.60	0.963	38.13
	50	15	12.5	2	2	4	650	26.00	0.963	25.04

**V02 = V02A**

50	1	6.3	2	12	24	145	34.80	0.245	8.53
50	2	6.3	2	9	18	193	34.74	0.245	8.51
50	3	6.3	2	9	18	303	54.54	0.245	13.36
50	4	6.3	2	9	18	383	68.34	0.245	16.89
50	5	6.3	2	10	20	448	89.60	0.245	21.95
50	6	8.0	2	2	4	97	3.88	0.395	1.53
50	7	8.0	2	4	8	187	14.96	0.395	5.91
50	8	8.0	2	4	8	277	22.16	0.395	8.75
50	9	8.0	2	4	8	367	29.36	0.395	11.60
50	10	8.0	2	4	8	627	25.08	0.395	9.91
50	11	12.5	2	3	6	192	11.52	0.963	11.09
50	12	12.5	2	3	6	180	32.40	0.963	31.20
50	13	12.5	2	3	6	667	32.40	0.963	31.20
50	14	20.0	2	2	4	513	20.52	2.466	50.60
50	15	20.0	2	2	4	627	25.08	2.466	61.85
50	16	20.0	2	3	6	667	40.02	2.466	98.69

**V3=V4=V5=V6**

50	1	6.3	4	129	516	145	748.20	0.245	183.31
50	2	6.3	4	9	36	193	69.48	0.245	17.02
50	3	6.3	4	9	36	303	109.08	0.245	26.72
50	4	6.3	4	9	36	383	137.88	0.245	33.38
50	5	6.3	4	10	40	448	179.20	0.245	43.90
50	5A	6.3	4	4	16	60	9.60	0.245	2.35
50	6	8.0	4	2	8	97	7.76	0.395	3.07
50	7	8.0	4	4	16	187	29.92	0.395	11.82
50	8	8.0	4	4	16	277	44.32	0.395	17.51
50	9	8.0	4	4	16	367	58.72	0.395	23.19
50	10	8.0	4	2	8	2820	225.60	0.395	89.11
50	10A	8.0	4	4	16	125	20.00	0.395	7.70
50	11	12.5	4	3	12	193	23.04	0.963	22.19
50	12	12.5	4	3	12	180	64.80	0.963	62.40
50	13	12.5	4	3	12	1200	144.00	0.963	138.67
50	14	12.5	4	3	12	845	104.40	0.963	97.65
50	15	12.5	4	4	16	870	139.20	0.963	134.05
50	16	12.5	4	2	8	1200	96.00	0.963	92.45
50	17	12.5	4	2	8	776	62.08	0.963	59.78
50	18	12.5	4	3	12	466	55.92	0.963	53.85
50	19	12.5	4	4	16	537	64.32	0.963	62.14
50	20	12.5	4	3	12	790	94.80	0.963	91.29
50	21	12.5	4	6	24	760	182.40	0.963	175.65
50	22	20.0	4	3	12	513	61.56	2.466	151.81
50	23	20.0	4	3	12	617	75.24	2.466	185.54
50	24	20.0	4	3	12	667	80.04	2.466	197.38

**V08**

50	1	6.3	1	60	60	145	87.00	0.245	21.32
50	2	8.0	1	1	108	108	308.32	0.245	80.96
50	3	6.3	1	4	4	1014	40.56	0.245	9.94
50	4	6.3	1	4	4	1014	40.56	0.245	9.94
50	5	8.0	1	4	4	1200	48.00	0.395	18.96
50	6	8.0	1	2	2	686	13.72	0.395	5.42
50	7	12.5	1	2	2	860	17.20	0.963	16.56
50	8	12.5	1	2	2	1200	24.00	0.963	23.11
50	9	12.5	1	2	2	1120	22.40	0.963	21.57
50	10	12.5	1	3	3	400	12.00	0.963	11.96
50	11	12.5	1	4	4	490	19.60	0.963	18.87
50	12	12.5	1	6	6	670	40.20	0.963	38.71
50	13	12.5	1	9	9	650	58.50	0.963	56.34

**V09 = V10**

50	1	6.3	2	158	316	145	458.20	0.245	112.26
50	2	8.0	2	4	8	1200	96.00	0.395	37.92
50	3	8.0	2	2	4	686	27.44	0.395	10.84
50	4	12.5	2	2	4	860	34.40	0.963	33.13
50	5	12.5	2	2	4	1200	48.00	0.963	46.22
50	6	12.5	2	2	4	1120	44.80	0.963	43.14
50	7	12.5	2	8	16	400	64.00	0.963	61.63
50	8	12.5	2	15	30	490	147.00	0.963	141.56
50	9	12.5	2	6	12	670	80.40	0.963	77.43
50	10	12.5	2	9	18	650	117.00	0.963	112.67

**V11**

50	1	6.3	1	172	172	145	249.40	0.245	61.10
50	2	8.0	1	4	4	1200	48.00	0.395	18.96
50	3	8.0	1	2	2	686	13.72	0.395	5.42
50	4	12.5	1	2	2	860	17.20	0.963	16.56
50	5	12.5	1	2	2	1200	24.00	0.963	23.11
50	6	12.5	1	2	2	1120	22.40	0.963	21.57
50	7	12.5	1	3	3	400	12.00	0.963	11.96
50	8	12.5	1	4	4	490	19.60	0.963	18.87
50	9	12.5	1	3	3	490	14.70	0.963	14.16
50	9	12.5	1	9	9	650	58.50	0.963	56.34
50	10	20.0	1	4	4	490	19.60	2.466	48.33
50	11	20.0	1	6	6	670	40.20	2.466	99.13

**V12**

50	1	6.3	1	116	116	198	229.68	0.245	56.27
50	2	8.0	1	8	8	1200	96.00	0.395	37.92
50	3	8.0	1	8	8	1145	91.60	0.395	36.18
50	4	12.5	1	4	4	1200	48.00	0.963	46.22
50	5	12.5	1	4	4	310	12.40	0.963	11.94
50	6	12.5							