

Diâmetro Externo	Espessuras								
	1,20	1,50	2,00	2,25	2,65	3,00	3,35	3,75	4,25
20,00 x 20,00	0,718	0,887	1,157	1,288	1,491	1,662	-	-	-
25,00 x 25,00	0,907	1,122	1,471	1,641	1,907	2,133	-	-	-
30,00 x 30,00	1,095	1,358	1,785	1,995	2,323	2,604	2,879	-	-
31,75 x 31,75	1,161	1,440	1,895	2,118	2,469	2,769	3,063	-	-
35,00 x 35,00	1,283	1,593	2,099	2,348	2,739	-	-	-	-
38,00 x 38,00	1,396	1,734	2,288	2,560	2,989	3,358	3,721	4,128	-
40,00 x 40,00	1,472	1,829	2,413	2,701	3,155	3,546	3,931	4,363	4,839
50,00 x 50,00	1,849	2,300	3,041	3,408	3,987	4,488	4,983	5,541	6,227
50,80 x 50,80	1,879	2,337	3,092	3,464	4,054	4,564	5,067	5,635	6,334
60,00 x 60,00	2,225	2,771	3,669	4,114	4,820	5,430	6,035	6,718	7,562
63,50 x 63,50	-	2,935	3,889	4,362	5,111	5,760	6,403	7,131	8,029
65,00 x 65,00	-	3,006	3,983	4,468	5,236	5,901	6,561	7,307	8,229
70,00 x 70,00	-	3,242	4,297	4,821	5,652	6,372	7,087	7,896	8,896
75,00 x 75,00	-	-	-	-	6,068	6,843	7,613	8,485	9,564
80,00 x 80,00	-	-	4,925	5,527	6,484	7,310	8,139	9,073	10,231
90,00 x 90,00	-	-	-	-	-	8,256	9,191	10,251	11,565
100,00 x 100,00	-	-	-	-	-	9,198	0,242	11,428	12,900
105,00 x 105,00	-	-	-	-	-	9,669	10,768	12,017	13,567
Diâmetro Externo	Espessuras								
	4,75	5,00	5,60	6,30	7,11	8,00	8,56	9,52	12,70
40,00 x 40,00	5,410	-	-	-	-	-	-	-	-
50,00 x 50,00	6,901	7,234	8,019	8,912	-	-	-	-	-
50,80 x 50,80	7,021	7,359	8,160	9,071	-	-	-	-	-
60,00 x 60,00	8,393	8,804	9,777	10,891	-	-	-	-	-
63,50 x 63,50	8,915	9,535	10,393	11,583	-	-	-	-	-
65,00 x 65,00	9,139	9,589	10,656	11,880	-	-	-	-	-
70,00 x 70,00	9,884	10,374	11,536	12,869	14,381	16,006	17,008	18,690	-
75,00 x 75,00	10,630	11,159	12,415	13,858	15,497	17,262	18,352	20,185	-
80,00 x 80,00	11,376	11,944	12,294	14,847	16,614	18,518	19,696	21,679	-
90,00 x 90,00	12,867	13,514	15,053	16,825	18,847	21,030	22,384	24,669	31,912
100,00 x 100,00	14,359	15,084	16,811	18,804	21,079	23,542	25,072	27,658	35,900
105,00 x 105,00	15,105	15,869	17,690	19,793	22,196	24,798	26,416	29,153	37,894
110,00 x 110,00	15,850	16,654	18,569	20,782	21,312	26,054	27,760	30,648	39,888
115,00 x 115,00	16,596	17,439	19,449	21,771	24,428	27,310	29,104	32,142	41,882
120,00 x 120,00	17,342	18,224	20,328	22,760	25,544	28,566	30,448	33,637	43,876
125,00 x 125,00	18,088	19,009	21,207	23,749	26,661	29,822	31,792	35,132	45,870
140,00 x 140,00	20,325	21,364	23,845	26,717	30,010	33,591	35,824	39,616	51,851
150,00 x 150,00	21,817	22,934	25,603	28,695	32,242	36,103	38,512	42,605	55,839
160,00 x 160,00	23,308	24,504	27,362	30,673	34,475	38,615	41,199	45,595	59,827
180,00 x 180,00	26,291	27,644	30,879	34,630	38,940	43,639	46,575	51,573	67,803
200,00 x 200,00	29,274	30,784	34,395	38,586	43,405	48,663	51,951	57,552	75,778