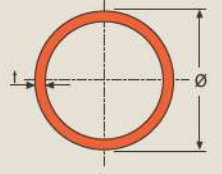


BORU PROFİLLER, BORULAR

TOLERANSLAR:

Eİ Kalınlığı
 $\emptyset \leq 406.4 \text{ mm}$
 $T \leq 5 \text{ mm} \pm \%10$
 $T > 5 \text{ mm} \pm 0.5 \text{ mm}$

Dış Ebatlar
 $\emptyset < 50 \text{ mm}; \pm 0.5 \text{ mm}$
 $50 \leq \emptyset \leq 1000 \text{ mm}; \pm \%1$



BORU PROFİLLER (EN 10219)

* Diğer boru talepleriniz ile ilgili satış temsilcinizden bilgi alabilirsiniz.

Ø mm	t mm	Birim Ağırlık (kg/m)														
		1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.3	7.0	8.0	9.0	10.0
Ø 21.3	0.7	1.0	1.2	1.4												
Ø 25.0	0.9	1.1	1.4	1.6												
Ø 26.9	0.9	1.2	1.5	1.8	2.0											
Ø 30.0	1.1	1.4	1.7	2.0	2.3											
Ø 33.7	1.2	1.6	1.9	2.3	2.6											
Ø 38.0	1.4	1.8	2.2	2.6	3.0	3.4										
Ø 42.4	1.5	2.0	2.5	2.9	3.4	3.8										
Ø 45.0	1.6	2.1	2.6	3.1	3.6	4.0										
Ø 48.3	1.7	2.3	2.8	3.4	3.9	4.4	4.9									
Ø 51.0	1.8	2.4	3.0	3.6	4.1	4.6	5.2	5.7								
Ø 57.0	2.1	2.7	3.4	4.0	4.6	5.2	5.8	6.4								
Ø 60.3	2.2	2.9	3.6	4.2	4.9	5.6	6.2	6.8								
Ø 63.0		3.0	3.7	4.4	5.1	5.8	6.5	7.2								
Ø 76.1		3.7	4.5	5.4	6.3	7.1	7.9	8.8								
Ø 88.9		4.3	5.3	6.4	7.4	8.4	9.4	10.3	11.3							
Ø 102.0		4.9	6.1	7.3	8.5	9.7	10.8	12.0	13.1							
Ø 108.0			6.5	7.8	9.0	10.3	11.5	12.7	13.9							
Ø 114.3			6.9	8.2	9.6	10.9	12.2	13.5	14.8	16.0						
Ø 127.0			7.7	9.2	10.7	12.1	13.6	15.0	16.5	17.9						
Ø 139.7			8.5	10.1	11.8	13.4	15.0	16.6	18.2	19.8						
Ø 152.4			9.2	11.1	12.9	14.6	16.4	18.2	19.9	21.7						
Ø 168.3				12.2	14.2	16.2	18.2	20.1	22.1	24.0	25.2	27.8	31.6			
Ø 219.1				16.0	18.6	21.2	23.8	26.4	29.0	31.5	33.1	36.6	41.6	46.6		
Ø 273.0						26.5	29.8	33.0	36.3	39.5	41.4	45.9	52.3	58.6	64.9	
Ø 323.9						31.6	35.4	39.3	43.2	47.0	49.3	54.7	62.3	69.9	77.4	

HAFİF KESİT HASSAS BORULAR (DIN 2393 DIN 2394)

Ø mm	t mm	Birim Ağırlık (kg/m)						
		1.0	1.2	1.5	1.8	2.0	2.2	2.5
13	0.30	0.35	0.43					
16	0.37	0.44	0.54	0.63	0.69			
18	0.42	0.50	0.61	0.72	0.78			
19	0.44	0.53	0.65	0.76	0.83			
20	0.47	0.56	0.68	0.81	0.88	0.96	1.07	
21	0.49	0.59	0.72	0.85	0.93	1.02	1.14	
22	0.52	0.62	0.76	0.89	0.98	1.07	1.20	
25	0.62	0.70	0.87	1.03	1.13	1.23	1.39	
26	0.67	0.73	0.91	1.07	1.18	1.29	1.45	
28	0.72	0.79	0.98	1.16	1.28	1.40	1.57	
30	0.76	0.85	1.05	1.25	1.38	1.50	1.70	
32	0.83	0.91	1.12	1.34	1.48	1.61	1.82	
35	0.91	1.00	1.24	1.47	1.62	1.78	2.00	
38	0.96	1.08	1.35	1.60	1.77	1.94	2.20	
40		1.15	1.42	1.69	1.87	2.05	2.31	
42		1.21	1.49	1.78	1.97	2.15	2.43	
45		1.30	1.61	1.91	2.12	2.32	2.62	
48		1.38	1.72	2.05	2.26	2.48	2.80	
50		1.44	1.79	2.14	2.36	2.59	2.93	
51		1.47	1.83	2.18	2.41	2.64	2.99	
55		1.59	1.98	2.36	2.61	2.86	3.23	
60				2.58	2.86	3.13	3.54	
63				2.71	3.00	3.29	3.73	
70				3.02	3.35	3.67	4.16	
76				3.29	3.65	4.00	4.53	
80				3.47	3.84	4.22	4.77	
89					4.29	4.70	5.33	
90							5.39	

SU ve DOĞALGAZ BORULARI (DIN 2440)

Anma Çapı inç	mm	Dış Çap mm	Eİ Kalınlığı mm	Siyah Dış Manşonlu mm	Galvanizli Dış Manşonlu kg/m	Siyah Düz Uçlu kg/m	Galvanizli Düz Uçlu kg/m
3/8	10	17.20	2.35	0.86	0.90	0.85	0.90
1/2	15	21.30	2.65	1.23	1.29	1.22	1.27
3/4	20	26.90	2.65	1.59	1.66	1.58	1.65
1	25	33.70	3.25	2.46	2.57	2.44	2.55
1 1/4	32	42.40	3.25	3.17	3.31	3.14	3.28
1 1/2	40	48.30	3.25	3.65	3.81	3.61	3.77
2	50	60.30	3.65	5.17	5.40	5.10	5.33
2 1/2	65	76.10	3.65	6.63	6.93	6.51	6.80
3	80	88.90	4.05	8.64	9.03	8.47	8.85
4	100	114.30	4.50	12.40	13.09	12.10	12.60
5	125	139.70	4.85	16.70	17.50	16.20	16.90
6	150	165.10	4.85	19.80	20.70	19.20	20.10

AĞIR KESİTLİ SU ve DOĞALGAZ BORULARI (DIN 2441)

Anma Çapı inç	mm	Dış Çap mm	Eİ Kalınlığı mm	Siyah Dış Manşonlu mm	Galvanizli Dış Manşonlu kg/m	Siyah Düz Uçlu kg/m	Galvanizli Düz Uçlu kg/m
3/8	10	17.2	2.90	1.03	1.08	1.02	1.07
1/2	15	21.3	3.25	1.46	1.53	1.45	1.52
3/4	20	26.9	3.25	1.91	2.00	1.90	1.99
1	25	33.7	4.05	2.99	3.12	2.97	3.10
1 1/4	32	42.4	4.05	3.87	4.04	3.84	4.01
1 1/2	40	48.3	4.05	4.47	4.67	4.43	4.63
2	50	60.3	4.50	6.24	6.52	6.17	6.45
2 1/2	65	76.1	4.50	8.02	8.38	7.90	8.26
3	80	88.9	4.85	10.3	10.76	10.01	10.06
4	100	114.3	5.40	14.7	15.36	14.40	15.00
5	125	139.7	5.40	18.3	18.7	17.80	18.60
6	150	165.1	5.40	21.8	22.3	21.20	22.20