



ÖZ-AY GRUP
GEMİ ÇELİK İNŞAAT

ÖZ-AY GRUP 2015 KATALOG

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ALTINOVA YALOVA

BORU GRUPLARI



NOMİNAL BORU ÇAPLARI

NPS	DN	OD (Dış Çap) inch (mm)	Boru et kalınlıkları															
			[in (mm)]															
			SCH 5	SCH 10s/10	SCH 30	SCH 40s/40	SCH 80s/80	SCH 120	SCH 160	XXS								
						/STD	/XS											
½	6	0.405 (10.29)	0.035 (0.889)	0.049 (1.245)	0.057 (1.448)	0.068 (1.727)	0.095 (2.413)	—	—	—								
¾	8	0.540 (13.72)	0.049 (1.245)	0.065 (1.651)	0.073 (1.854)	0.088 (2.235)	0.119 (3.023)	—	—	—								
¾	10	0.675 (17.15)	0.049 (1.245)	0.065 (1.651)	0.073 (1.854)	0.091 (2.311)	0.126 (3.200)	—	—	—								
½	15	0.840 (21.34)	0.065 (1.651)	0.083 (2.108)	—	0.109 (2.769)	0.147 (3.734)	—	—	0.294 (7.468)								
¾	20	1.050 (26.67)	0.065 (1.651)	0.083 (2.108)	—	0.113 (2.870)	0.154 (3.912)	—	—	0.308 (7.823)								
1	25	1.315 (33.40)	0.065 (1.651)	0.109 (2.769)	—	0.133 (3.378)	0.179 (4.547)	—	—	0.358 (9.093)								
1¼	32	1.660 (42.16)	0.065 (1.651)	0.109 (2.769)	0.117 (2.972)	0.140 (3.556)	0.191 (4.851)	—	—	0.382 (9.703)								
1½	40	1.900 (48.26)	0.065 (1.651)	0.109 (2.769)	0.125 (3.175)	0.145 (3.683)	0.200 (5.080)	—	—	0.400 (10.160)								
2	50	2.375 (60.33)	0.065 (1.651)	0.109 (2.769)	0.125 (3.175)	0.154 (3.912)	0.218 (5.537)	0.250 (6.350)	0.343 (8.712)	0.436 (11.074)								
2½	65	2.875 (73.02)	0.083 (2.108)	0.120 (3.048)	0.188 (4.775)	0.203 (5.156)	0.276 (7.010)	0.300 (7.620)	0.375 (9.525)	0.552 (14.021)								
3	80	3.500 (88.90)	0.083 (2.108)	0.120 (3.048)	0.188 (4.775)	0.216 (5.486)	0.300 (7.620)	0.350 (8.890)	0.438 (11.125)	0.600 (15.240)								
3½	90	4.000 (101.60)	0.083 (2.108)	0.120 (3.048)	0.188 (4.775)	0.226 (5.740)	0.318 (8.077)	—	—	0.636 (16.154)								

BORU GRUPLARI



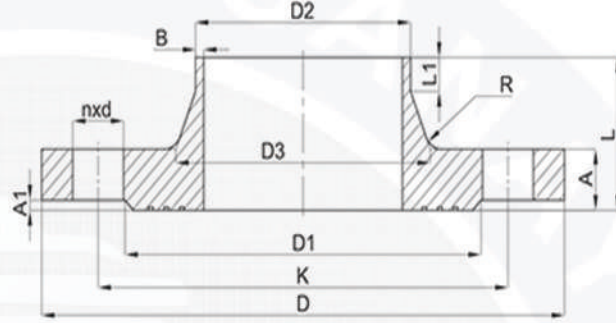
NPS	DN	OD (Dış Çap) inch (mm)	Boru et kalınlıkları														
			[in (mm)]														
			SCH 5	SCH 10s/10	SCH 20	SCH 30	SCH 40s/40 /STD	SCH 60	SCH 80s/80 /XS	SCH 100	SCH 120	SCH 140	SCH 160	XXS[5]			
4	100	4.500 (114.30)	0.083 (2.108)	0.120 (3.048)	—	0.188 (4.775)	0.237 (6.020)	0.281 (7.137)	0.337 (8.560)	—	0.437 (11.100)	—	0.531 (13.487)	0.674 (17.120)			
4½	115	5.000 (127.00)	—	—	—	—	0.247 (6.274)	—	0.355 (9.017)	—	—	—	—	0.710 (18.034)			
5	125	5.563 (141.30)	0.109 (2.769)	0.134 (3.404)	—	—	0.258 (6.553)	—	0.375 (9.525)	—	0.500 (12.700)	—	0.625 (15.875)	0.750 (19.050)			
6	150	6.625 (168.27)	0.109 (2.769)	0.134 (3.404)	—	—	0.280 (7.112)	—	0.432 (10.973)	—	0.562 (14.275)	—	0.718 (18.237)	0.864 (21.946)			
7½	—	7.625 (193.68)	—	—	—	—	0.301 (7.645)	—	0.500 (12.700)	—	—	—	—	0.875 (22.225)			
8	200	8.625 (219.08)	0.109 (2.769)	0.148 (3.759)	0.250 (6.350)	0.277 (7.036)	0.322 (8.179)	0.406 (10.312)	0.500 (12.700)	0.593 (15.062)	0.718 (18.237)	0.812 (20.625)	0.906 (23.012)	0.875 (22.225)			
9½	—	9.625 (244.48)	—	—	—	—	0.342 (8.687)	—	0.500 (12.700)	—	—	—	—	—			
NPS	DN	OD (Dış Çap) inch (mm)	Boru et kalınlıkları														
			[in (mm)]														
			SCH 5s	SCH 5	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s/STD	SCH 40	SCH 60	SCH 80s/XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160
10	250	10.75 (273.05)	0.134 (3.404)	0.134 (3.404)	0.165 (4.191)	0.165 (4.191)	0.250 (6.350)	0.307 (7.798)	0.365 (9.271)	0.365 (9.271)	0.500 (12.700)	0.500 (12.700)	0.593 (15.062)	0.718 (18.237)	0.843 (21.412)	1.000 (25.400)	1.125 (28.575)
12	300	12.75 (323.85)	0.156 (3.962)	0.165 (4.191)	0.180 (4.572)	0.180 (4.572)	0.250 (6.350)	0.330 (8.382)	0.375 (9.525)	0.406 (10.312)	0.500 (12.700)	0.500 (12.700)	0.687 (17.450)	0.843 (21.412)	1.000 (25.400)	1.125 (28.575)	1.312 (33.300)
14	350	14.00 (355.60)	0.156 (3.962)	0.156 (3.962)	0.188 (4.775)	0.250 (6.350)	0.312 (7.925)	0.375 (9.525)	0.375 (9.525)	0.437 (11.100)	0.593 (15.062)	0.500 (12.700)	0.750 (19.050)	0.937 (23.800)	1.093 (27.762)	1.250 (31.750)	1.406 (35.700)
16	400	16.00 (406.40)	0.165 (4.191)	0.165 (4.191)	0.188 (4.775)	0.250 (6.350)	0.312 (7.925)	0.375 (9.525)	0.375 (9.525)	0.500 (12.700)	0.656 (16.662)	0.500 (12.700)	0.843 (21.412)	1.031 (26.187)	1.218 (30.937)	1.437 (36.500)	1.594 (40.400)

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18	450	18.00 (457.20)	0.165 (4.191)	0.165 (4.191)	0.188 (4.775)	0.250 (6.350)	0.312 (7.925)	0.437 (11.100)	0.375 (9.525)	0.562 (14.275)	0.750 (19.050)	0.500 (12.700)	0.937 (23.800)	1.156 (29.362)	1.375 (34.925)	1.562 (39.675)	1.781 (45.200)
20	500	20.00 (508.00)	0.188 (4.775)	0.188 (4.775)	0.218 (5.537)	0.250 (6.350)	0.375 (9.525)	0.500 (12.700)	0.375 (9.525)	0.593 (15.062)	0.812 (20.625)	0.500 (12.700)	1.031 (26.187)	1.280 (32.512)	1.500 (38.100)	1.750 (44.450)	1.961 (49.950)
24	600	24.00 (609.60)	0.218 (5.537)	0.218 (5.537)	0.250 (6.350)	0.250 (6.350)	0.375 (9.525)	0.562 (14.275)	0.375 (9.525)	0.687 (17.450)	0.968 (24.587)	0.500 (12.700)	1.218 (30.937)	1.531 (38.887)	1.812 (46.025)	2.062 (52.375)	2.344 (59.550)
NPS	DN	OD (Dış Çap) inch (mm)	Boru et kalınlıkları														
			[in (mm)]														
			SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s/STD	SCH 40	SCH 80s/XS							
26	650	26.000 (660.400)	—	—	0.312 (7.925)	0.500 (12.700)	0.375 (9.525)	—	0.500 (12.700)								
28	700	28.000 (711.200)	—	—	0.312 (7.925)	0.500 (12.700)	0.625 (15.875)	0.375 (9.525)	—	—							
30	750	30.000 (762.000)	0.250 (6.350)	0.312 (7.925)	0.312 (7.925)	0.500 (12.700)	0.625 (15.875)	0.375 (9.525)	—	0.500 (12.700)							
32	800	32.000 (812.800)	—	—	0.312 (7.925)	0.500 (12.700)	0.625 (15.875)	0.375 (9.525)	0.688 (17.475)	0.500 (12.700)							
34	—	34.000 (863.600)	—	—	0.312 (7.925)	0.500 (12.700)	0.625 (15.875)	0.375 (9.525)	0.688 (17.475)								
36	900	36.000 (914.400)	—	—	0.312 (7.925)	—	0.625 (15.875)	0.375 (9.525)	0.750 (19.050)	0.500 (12.700)							

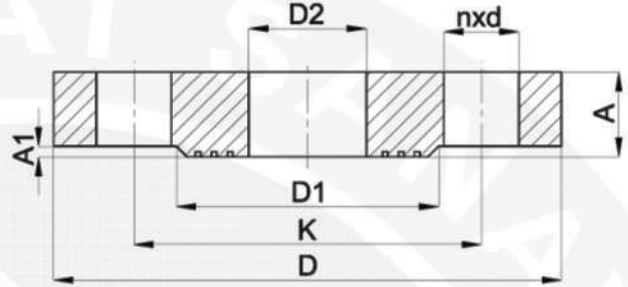
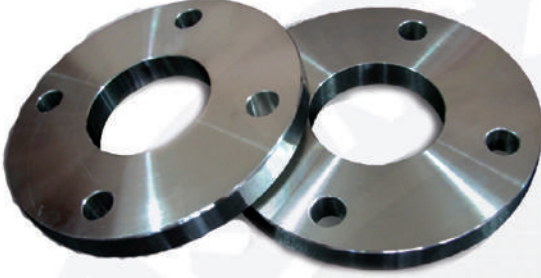
KAYNAK BOYUNLU FLANS



DN	D	K	D1	D2	D3	nxd	A	A1	B	L1	L	R	Ağırlık (Weight)(Kg)	
10	PN6	75	50	35	17.2	26	4x11	12	2	1.8	6	28	4	0.34
	PN10													
	PN16	90	60	40	17.2	28	4x14	16	2	1.8	6	35	4	0.66
	PN25													
	PN40													
PN100	100	70	40	17.2	32	4x14	20	2	1.8	6	45	4	-	
15	PN6	80	55	40	21.3	30	4x11	12	2	2	6	30	4	0.40
	PN10													
	PN16	95	65	45	21.3	32	4x14	16	2	2	6	38	4	0.75
	PN25													
	PN40													
PN100	105	75	45	21.3	34	4x14	20	2	2	6	45	4	-	
20	PN6	90	65	50	26.9	38	4x11	14	2	2.3	6	32	4	0.60
	PN10													
	PN16	105	75	58	26.9	40	4x14	18	2	2.3	6	40	4	1.06
	PN25													
	PN40													
PN100	130	90	58	26.9	42	4x18	22	2	2.6	8	48	4	-	
25	PN6	100	75	60	33.7	42	4x11	14	2	2	6	35	4	0.75
	PN10													
	PN16	115	85	68	33	46	4x14	18	2	2.6	6	40	4	1.29
	PN25													
	PN40													
PN100	140	100	68	33.7	52	4x18	24	2	2.6	8	58	4	-	
32	PN6	120	90	70	42.4	55	4x14	14	2	2.6	6	35	6	1.05
	PN10													
	PN16	140	100	78	42.4	56	4x18	18	2	2.6	6	42	6	1.88
	PN25													
	PN40													
PN100	155	110	78	42.4	62	4x22	24	2	2.9	8	60	6	-	
40	PN6	130	100	80	48.3	62	4x14	14	2	2.6	7	38	6	1.18
	PN10													
	PN16	150	110	88	48.3	64	4x18	18	2	2.6	7	45	6	2.33
	PN25													
	PN40													
PN100	170	125	88	48.3	70	4x22	26	2	2.9	10	62	6	-	

DN	D	K	D1	D2	D3	nxd	A	A1	B	L1	L	R	Ağırlık (Weight)(Kg)	
50	PN6	140	110	90	60.3	74	4x14	14	2	2.9	8	38	6	1.34
	PN10													
	PN16	165	125	102	60.3	74	4x18	18	2	2.9	8	45	5	2.82
	PN25													
	PN40	165	125	102	60.3	75	4x18	20	2	2.9	8	48	6	3.00
PN100	195	145	102	60.3	90	4x26	28	2	3.2	10	68	6	-	
65	PN6	160	130	110	76.1	88	4x14	14	2	2.9	9	38	6	1.67
	PN10													
	PN16	185	145	122	76.1	92	4x18	18	2	2.9	10	45	6	3.06
	PN25													
	PN40	185	145	122	76.1	90	8x18	22	2	2.9	10	52	6	3.7
PN100	220	170	122	76.1	108	8x26	30	2	3.6	12	76	6	-	
80	PN6	190	150	128	88.9	102	4x18	16	2	3.2	10	42	8	2.71
	PN10													
	PN16	200	160	138	88.9	105	8x18	20	2	3.2	10	50	6	3.70
	PN25													
	PN40	200	160	138	88.9	105	8x18	24	2	3.2	12	58	8	4.75
PN100	230	180	138	88.9	120	8x26	32	2	4	12	78	8	-	
100	PN6	210	170	148	114.3	130	4x18	16	2	3.6	10	45	8	3.24
	PN10													
	PN16	220	180	158	114.3	131	8x18	20	2	3.6	12	52	8	4.62
	PN25													
	PN40	235	190	162	114.3	134	8x22	24	2	3.6	12	65	8	6.52
PN100	265	210	162	114.3	150	8x30	36	2	5	12	90	8	-	
125	PN6	240	200	178	139.7	155	8x18	18	2	4	10	48	8	4.49
	PN10													
	PN16	250	210	188	139.7	156	8x18	22	2	4	12	55	8	6.30
	PN25													
	PN40	270	220	188	139.7	162	8x26	26	2	4	12	68	8	9.07
PN100	315	250	188	139.7	180	8x33	40	2	6.3	12	105	8	-	
150	PN6	265	225	202	168.3	184	8x18	18	2	4.5	12	4	10	5.15
	PN10													
	PN16	285	240	212	168.3	184	8x22	22	2	4.5	12	5	10	7.75
	PN25													
	PN40	300	250	218	168.3	192	8x26	28	2	4.5	12	75	10	11.80
PN100	355	290	218	168.3	210	12x33	44	2	7.1	12	115	10	-	

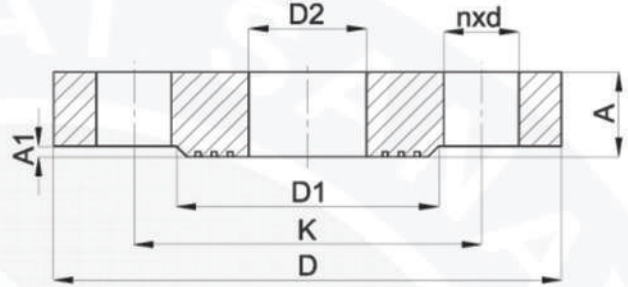
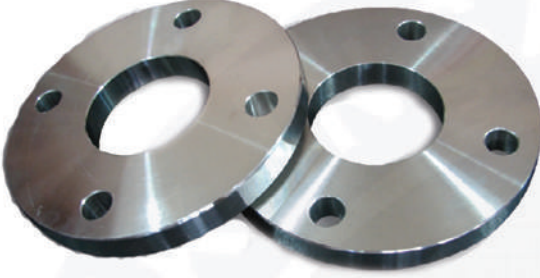
DÜZ FLANŞ



DN		D	K	D1	D2	nxd	A	A1	Ağırlık (Weight)(Kg)
10	PN6	75	50	35	18	4x11	12	2	0.30
	PN10	90	60	40	18	4x14	14	2	0.52
	PN16								
	PN25								
	PN40								
	PN100	100	70	40	18	4x14	20	2	-
15	PN6	80	55	40	22	4x11	12	2	0.41
	PN10	95	65	45	22	4x14	14	2	0.60
	PN16								
	PN25								
	PN40								
	PN100	105	75	45	22	4x14	20	2	-
20	PN6	90	65	50	27.5	4x11	14	2	0.60
	PN10	105	75	58	27.5	4x14	16	2	0.90
	PN16								
	PN25								
	PN40								
	PN100	130	90	58	27.5	4x18	22	2	-
25	PN6	100	75	60	34.5	4x11	14	2	0.74
	PN10	115	85	68	34.5	4x14	16	2	1.10
	PN16								
	PN25								
	PN40								
	PN100	140	100	68	34.5	4x18	24	2	-
32	PN6	120	90	70	43.5	4x14	16	2	1.19
	PN10	140	100	78	43.5	4x18	18	2	1.70
	PN16								
	PN25								
	PN40								
	PN100	155	110	78	43.5	4x22	24	2	-
40	PN6	130	100	80	49	4x14	16	2	1.39
	PN10	150	110	88	49	4x18	18	2	1.95
	PN16								
	PN25								
	PN40								
	PN100	170	125	88	49	4x22	26	2	-

DN		D	K	D1	D2	nxd	A	A1	Ağırlık (Weight)(Kg)
50	PN6	140	110	90	61.5	4x14	16	2	1.53
	PN10	165	125	102	61.5	4x18	20	2	2.40
	PN16								
	PN25								
	PN40								
	PN100	195	145	102	61.3	4x26	28	2	-
65	PN6	160	130	110	77.5	4x14	16	2	1.78
	PN10	185	145	122	77.5	4x18	20	2	2.96
	PN16								
	PN25								
	PN40								
	PN100	220	170	122	77.5	8x26	30	2	-
80	PN6	190	150	128	90.5	4x18	18	2	2.86
	PN10	200	160	138	90.5	8x18	20	2	3.44
	PN16								
	PN25								
	PN40								
	PN100	230	180	138	90.5	8x26	34	2	-
100	PN6	210	170	148	116	4x18	18	2	3.46
	PN10	220	180	158	116	8x18	22	2	4.30
	PN16								
	PN25								
	PN40								
	PN100	265	210	162	116	8x30	36	2	-
125	PN6	240	200	178	141.5	8x18	20	2	4.12
	PN10	250	210	188	141.5	8x18	22	2	4.60
	PN16								
	PN25								
	PN40								
	PN100	315	250	188	141.5	8x33	42	2	-
150	PN6	265	225	202	170.5	8x18	20	2	5.22
	PN10	285	240	212	170.5	8x22	24	2	6.73
	PN16								
	PN25								
	PN40								
	PN100	355	290	218	170.5	12x33	48	2	-

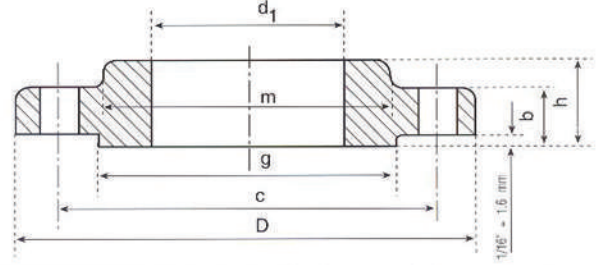
DÜZ FLANŞ



	DN	D	K	D1	D2	nxd	A	A1	Ağırlık (Weight)(Kg)
200	PN6	320	280	258	221.5	8x18	22	2	7.15
	PN10	340	295	268	221.5	8x22	24	2	8.30
	PN16	340	295	268	221.5	12x22	26	2	9.30
	PN25	360	310	278	221.5	12x26	32	2	17.50
	PN40	375	320	285	221.5	12x30	36	2	17.50
	PN100	430	360	285	221.5	12x36	60	2	-
250	PN6	375	335	312	276.5	12x18	24	2	9.81
	PN10	395	350	320	276.5	12x22	26	2	11.20
	PN16	405	355	320	276.5	12x26	29	2	12.70
	PN25	425	370	335	276.5	12x30	35	2	28.50
	PN40	450	385	345	276.5	12x33	42	2	28.50
	PN100	505	430	345	276.5	12x39	72	2	-
300	PN6	440	395	365	327.5	12x22	24	2	12.60
	PN10	445	400	370	327.5	12x22	26	2	12.80
	PN16	460	410	378	327.5	12x26	32	2	18.20
	PN25	485	430	395	327.5	16x30	38	2	45.58
	PN40	515	450	410	327.5	16x33	48	2	45.58
	PN100	585	500	410	327.5	16x42	84	2	-
350	PN6	490	445	415	359.5	12x22	26	2	15.60
	PN10	505	460	430	359.5	16x22	28	2	21.05
	PN16	520	470	438	359.5	16x26	35	2	27.30
	PN25	555	490	450	359.5	16x33	42	2	62.16
	PN40	580	510	465	359.5	16x36	54	2	62.16
	PN100	655	560	465	359.5	16x48	95	2	-
400	PN6	540	495	465	411	16x22	28	2	18.40
	PN10	565	515	482	411	16x26	32	2	26.42
	PN16	580	525	490	411	16x30	38	2	34.80
	PN25	620	550	505	411	16x36	46	2	88.05
	PN40	660	585	535	411	16x39	60	2	88.05
	PN100	715	620	535	411	16x48	106	2	-
450	PN6	595	550	520	462	16x22	30	2	21.40
	PN10	615	565	532	462	20x26	36	2	31.90
	PN16	640	585	550	462	20x30	42	2	45.31
	PN25	670	600	555	462	20x36	50	2	91.76
	PN40	685	610	560	462	20x39	66	2	91.76
	PN100					-			

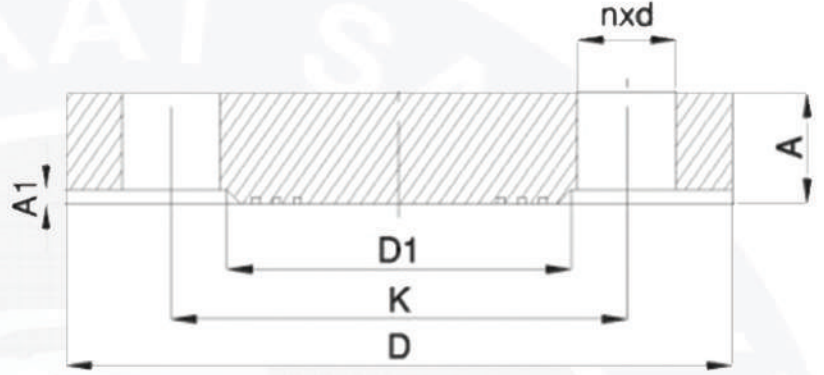
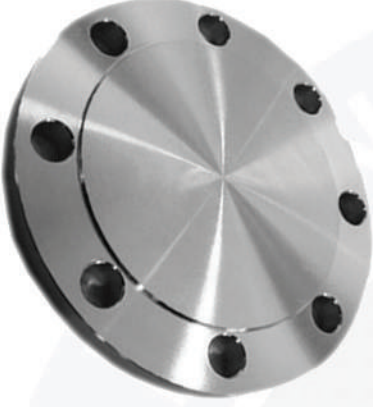
	DN	D	K	D1	D2	nxd	A	A1	Ağırlık (Weight)(Kg)
500	PN6	645	600	570	513.5	20x22	30	2	24.60
	PN10	670	620	585	513.5	20x26	38	2	38.85
	PN16	715	650	610	513.5	20x33	46	2	62.50
	PN25	730	660	615	513.5	20x36	56	2	118.16
	PN40	755	670	615	513.5	20x42	72	2	118.16
	PN100	870	760	615	513.5	20x56	128	2	-
600	PN6	755	705	670	616.5	20x26	32	2	26.40
	PN10	780	725	685	616.5	20x30	42	2	52.74
	PN16	840	770	720	616.5	20x36	52	2	94.00
	PN25	845	770	720	616.5	20x39	68	2	176.16
	PN40	890	795	735	616.5	20x48	84	2	176.16
	PN100				-				
700	PN6	860	810	775	717.5	24x26	40	2	37.10
	PN10	895	840	800	717.5	24x30	46	2	77.80
	PN16	910	840	795	717.5	24x36	60	2	107.80
	PN25	960	875	820	717.5	24x42	-	2	
	PN40				-				
	PN100				-				
800	PN6	975	920	880	819	24x30	44	2	53.70
	PN10	1015	950	905	819	24x33	50	2	105.80
	PN16	1025	950	900	819	24x39	68	2	147.90
	PN25	1085	990	930	819	24x48	-	2	
	PN40				-				
	PN100				-				
900	PN6	1075	1020	980	920	24x30	48	2	72.80
	PN10	1115	1050	1005	920	28x33	-	2	-
	PN16	1125	1050	1000	920	28x39	76	2	-
	PN25	1185	1090	1030	920	28x48	-	2	
	PN40				-				
	PN100				-				
1000	PN6	1175	1120	1080	-	28x30	-	2	-
	PN10	1230	1160	1110	-	28x36	-	2	-
	PN16	1255	1170	1115	-	28x42	-	2	-
	PN25	1320	1210	1140	-	28x56	-	2	
	PN40				-				
	PN100				-				

SLIP ON FLANŞ



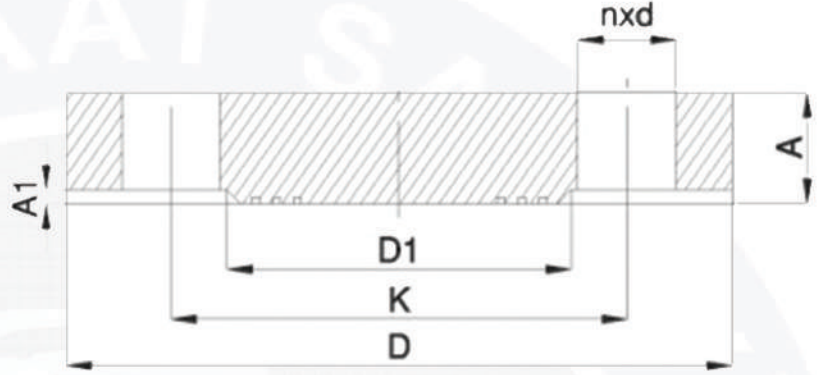
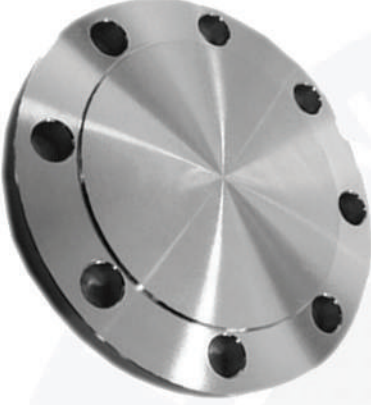
BORU / PIPE			D		b		c		Delik Hole	Vida Screw		h		m		g		Ağırlık Weight	
Dış Çap O.D	d1																		
DN	mm		Inch	mm	Inch	mm	Inch	mm	Pcs	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Pounds	kg
1/2	0,88	22,3	3 3/4	95,2	9/16	14,3	2 5/8	66,7	4	5/8	15,9	7/8	22,2	1 1/2	38,1	1 3/8	34,9	2	0,9
3/4	1,09	27,7	4 5/8	117,5	5/8	15,9	3 1/4	82,5	4	3/4	19	1	25,4	1 7/8	47,6	1 11/16	42,9	3	1,3
1	1,36	34,5	4 7/8	123,6	11/16	17,5	3 1/2	88,9	4	3/4	19	11/16	27	2 1/8	54	2	50,8	3	1,4
1 1/4	1,70	43,2	5 1/4	133,3	3/4	19	3 7/8	98,4	4	3/4	19	11/16	27	2 1/2	63,5	2 1/2	63,5	4	1,8
1 1/2	1,95	49,5	6 1/8	155,6	13/16	20,6	4 1/2	114,3	4	7/8	22,2	13/16	30,2	2 3/4	69,8	2 7/8	73	6	2,5
2	2,44	62	6 1/2	165,1	7/8	22,2	5	127	8	3/4	19	15/16	33,3	3 5/16	84,1	3 5/8	92,1	7	3
2 1/2	2,94	74,7	7 1/2	190,5	1	25,4	5 7/8	149,7	8	7/8	22,2	1 1/2	38,1	3 15/16	100	4 1/8	104,8	10	4,5
3	3,57	90,7	8 1/7	290,5	1 1/8	28,6	6 5/8	168,3	8	7/8	22,2	1 11/16	42,9	4 5/8	117,5	5	127	13	6
3 1/2	4,07	103,4	9	228,5	1 3/16	30,2	7 1/4	184,1	8	7/8	22,2	1 3/4	44,4	5 1/4	133,3	5 1/2	139,7	17	7,7
4	4,57	116,1	10	254	1 1/4	31,8	7 7/8	200	8	7/8	22,2	1 7/8	47,6	5 3/4	146	6 3/16	157,2	22	10
5	5,66	143,8	11	279,4	1 3/8	34,9	9 1/4	234,9	8	7/8	22,2	2	50,8	7	177,8	7 5/16	185,7	28	12,5
6	6,72	170,7	12 1/2	317,5	1 7/16	36,5	10 5/8	269,9	12	7/8	22,2	2 1/16	52,4	8 1/8	206,4	8 1/2	215,9	39	17,5
8	8,72	221,5	15	381	1 5/8	41,3	13	330,2	12	1	25,4	27/16	61,9	10 1/4	260,3	10 5/8	269,9	58	26
10	10,88	276,3	17 1/2	444,5	1 7/8	47,6	15 1/4	387,3	16	1 1/8	28,6	2 5/8	66,7	12 5/8	320,7	12 3/4	323,8	81	36,5
12	12,88	327,1	20 1/2	520,7	2	50,8	17 3/4	450,8	16	1 1/4	31,7	2 7/8	73	14 3/4	374,6	15	381	115	52
14	14,14	359,2	23	584,2	2 1/8	54	20 1/4	514,3	20	1 1/4	31,7	3	76,2	16 3/4	425,4	16 1/4	412,7	165	75
16	16,16	410,4	25 1/2	647,7	1 1/4	57,2	22 1/2	571,5	20	1 3/8	34,9	3 1/4	82,5	19	482,6	18 1/2	469,9	190	86
18	18,18	461,8	28	711,2	2 3/8	60,3	24 3/4	628,5	24	1 3/8	34,9	3 1/2	88,9	21	533,4	21	533,4	250	113
20	20,20	513,1	30 1/2	774,7	2 1/2	63,5	27	685,8	24	1 3/8	34,9	3 3/4	95,2	23 1/8	587,4	23	584,2	315	143
24	24,25	616	36	914,4	2 3/4	69,8	32	812,8	24	1 5/8	41,3	4 3/16	106,4	27 5/8	701,7	27 1/4	692,1	475	215
26	26,25	666,75	38 1/4	971,5	3 1/8	79,4	34 1/2	876,3	28	1 3/4	44,4	7 1/4	184,15	28 3/8	720,7	29 1/4	749,3	570	259
28	28,25	717,55	40 3/4	1035	3 3/8	85,7	37	939,8	28	1 3/4	44,4	7 3/4	196,85	30 1/2	774,7	31 1/2	800,1	720	327
30	30,25	768,35	43	1092,2	3 5/8	92,1	39 1/4	996,9	28	1 7/8	47,6	8 1/4	209,55	32 9/16	827,1	33 3/4	857,2	810	368
32	32,25	819,15	45 1/4	1149,3	3 7/8	98,4	41 1/2	1054,1	28	2	50,8	8 3/4	222	34 11/16	881,05	36	914,4	890	404
34	34,25	869,95	47 1/2	1206,5	4	101,6	43 1/2	1104,9	28	2	50,8	9/18	231,8	36 7/8	936,6	38	965,2	1075	488
36	36,25	920,75	50	1270	4 1/8	104,8	46	1168,4	32	2 1/8	54	9 1/2	241,3	39	990,6	40 1/4	1022,3	1200	545

KÖR FLANŞ



	DN	D	K	D1	nxd	A	A1	Agrık (Weight)(Kg)
200	PN6	320	280	258	8x18	20	2	12.50
	PN10	340	295	268	8x22	24	2	16.90
	PN16	340	295	268	12x22	24	2	16.10
	PN25	360	310	278	12x26	30	2	22.70
	PN40	375	320	285	12x30	36	2	27.60
	PN100	430	360	285	12x36	52	2	-
250	PN6	375	335	312	12x18	22	2	18.50
	PN10	395	350	320	12x22	26	2	24.70
	PN16	405	355	320	12x26	26	2	24.90
	PN25	425	370	335	12x30	32	2	24.50
	PN40	450	385	345	12x33	38	2	44.50
	PN100	505	430	345	12x39	60	2	-
300	PN6	440	395	365	12x22	22	2	25.50
	PN10	445	400	370	12x22	26	2	31.90
	PN16	460	410	378	12x26	28	2	35.10
	PN25	485	430	395	16x30	34	2	47.30
	PN40	515	450	410	16x33	42	2	64.30
	PN100	585	500	410	16x42	68	2	-
350	PN6	490	445	415	12x22	22	2	31.50
	PN10	505	460	430	16x22	26	2	41.90
	PN16	520	470	438	16x26	30	2	47.80
	PN25	555	490	450	16x33	38	2	69.30
	PN40	580	510	465	16x36	46	2	90.80
	PN100	655	560	465	16x48	74	2	-
400	PN6	540	495	465	16x22	22	2	48.50
	PN10	565	515	482	16x26	26	2	51.20
	PN16	580	525	490	16x30	32	2	63.50
	PN25	620	550	505	16x36	40	2	91.50
	PN40	660	585	535	16x39	50	2	129.00
	PN100	715	620	535	16x48	-	2	-
450	PN6	595	550	520	16x22	24	2	60.00
	PN10	615	565	532	20x26	28	2	77.80
	PN16	640	585	550	20x30	40	2	84.50
	PN25	670	600	555	20x36	46	2	141.00
	PN40	685	610	560	20x39	57	2	160.00
	PN100							
	DN	D	K	D1	nxd	A	A1	Agrık (Weight)(Kg)
500	PN6	645	600	570	20x22	24	2	70.00
	PN10	670	620	585	20x26	28	2	85.00
	PN16	715	650	610	20x33	44	2	104.00
	PN25	730	660	615	20x36	48	2	160.00
	PN40	755	670	615	20x42	57	2	175.00
	PN100	870	760	615	20x56	-	2	-
600	PN6	755	705	670	20x26	30	2	-
	PN10	780	725	685	20x30	34	2	-
	PN16	840	770	720	20x36	54	2	149.70
	PN25	845	770	720	20x39	58	2	-
	PN40	890	795	735	20x48	72	2	-
	PN100							
700	PN6	860	810	775	24x26	40	2	-
	PN10	895	840	800	24x30	38	2	-
	PN16	910	840	795	24x36	48	2	173.70
	PN25	960	875	820	24x42	-	2	-
	PN40							
	PN100							
800	PN6	975	920	880	24x30	44	2	-
	PN10	1015	950	905	24x33	42	2	-
	PN16	1025	950	900	24x39	52	2	235.50
	PN25	1085	990	930	24x48	-	2	-
	PN40							
	PN100							
900	PN6	1075	1020	980	24x30	48	2	-
	PN10	1115	1050	1005	28x33	46	2	-
	PN16	1125	1050	1000	28x39	58	2	298.80
	PN25	1185	1090	1030	28x48	-	2	-
	PN40							
	PN100							
1000	PN6	1175	1120	1080	28x30	52	2	-
	PN10	1230	1160	1110	28x36	52	2	-
	PN16	1255	1170	1115	28x42	64	2	390.70
	PN25	1320	1210	1140	28x56	-	2	-
	PN40							
	PN100							

KÖR FLANŞ



DN	D	K	D1	nxd	A	A1	Ağırlık (Weight)(Kg)
10	PN6	75	50	35	4x11	12	0.38
	PN10						
	PN16	90	60	40	4x14	16	0.63
	PN25						
	PN40						
15	PN100	100	70	40	4x14	20	-
	PN6	80	55	40	4x11	12	0.44
	PN10						
	PN16	95	65	45	4x14	16	0.72
	PN25						
20	PN40						
	PN100	105	75	45	4x14	20	-
	PN6	90	65	50	4x11	14	0.65
	PN10						
	PN16	105	75	58	4x14	18	1.01
25	PN25						
	PN40						
	PN100	130	90	58	4x18	22	-
	PN6	100	75	60	4x11	14	0.82
	PN10						
32	PN16	115	85	68	4x14	18	1.23
	PN25						
	PN40						
	PN100	140	100	68	4x18	24	-
	PN6	120	90	70	4x14	14	1.17
40	PN10						
	PN16	140	100	78	4x18	18	1.80
	PN25						
	PN40						
	PN100	155	110	78	4x22	24	-
50	PN6	130	100	80	4x14	14	1.39
	PN10						
	PN16	150	110	88	4x18	18	2.09
	PN25						
	PN40						
65	PN100	170	125	88	4x22	26	-

DN	D	K	D1	nxd	A	A1	Ağırlık (Weight)(Kg)
50	PN6	140	110	90	4x14	14	1.62
	PN10						
	PN16	165	125	102	4x18	18	2.88
	PN25						
	PN40	165	125	102	4x18	20	3.00
65	PN100	195	145	102	4x26	28	-
	PN6	160	130	110	4x14	14	2.48
	PN10						
	PN16	185	145	122	4x18	18	3.70
	PN25						
80	PN40	185	145	122	8x18	22	4.33
	PN100	220	170	122	8x26	30	-
	PN6	190	150	128	4x18	16	3.49
	PN10						
	PN16	200	160	138	8x18	20	4.83
100	PN25						
	PN40	200	160	138	8x18	24	5.94
	PN100	230	180	138	8x26	32	-
	PN6	210	170	148	4x18	16	4.86
	PN10						
125	PN16	220	180	158	8x18	20	5.75
	PN25						
	PN40	235	190	162	8x22	24	7.64
	PN100	265	210	162	8x30	36	-
	PN6	240	200	178	8x18	18	3.28
150	PN10						
	PN16	250	210	188	8x18	22	8.59
	PN25						
	PN40	270	220	188	8x26	26	11.00
	PN100	315	250	188	8x33	40	-
200	PN6	265	225	202	8x18	18	7.75
	PN10						
	PN16	285	240	212	8x22	22	10.60
	PN25						
	PN40	300	250	218	8x26	28	14.70
250	PN100	355	290	218	12x33	44	-

BORU KELEPÇELERİ KAYNAKLI BORU KELEPÇELERİ



BORU KELEPÇELERİ

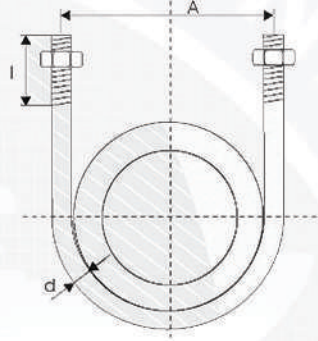
SAPLI KELEPÇE



DN	INCH	mm
DN15	1/2"	Ø21,3
DN20	3/4"	Ø26,9
DN25	1"	Ø33,7
DN32	1 1/4"	Ø42,4
DN40	1 1/2"	Ø48,3
DN50	2"	Ø60,3
DN65	2 1/2"	Ø76,1
DN80	3"	Ø88,9
DN100	4"	Ø114,3
DN125	5"	Ø139,7
DN150	6"	Ø168,3

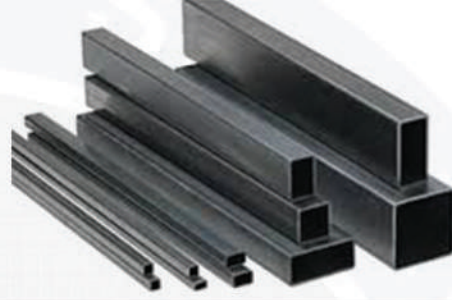
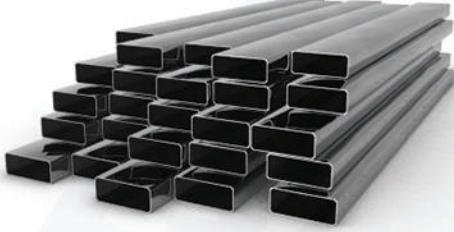
BORU KELEPÇELERİ

U-BOLT



KOD/CODE	INCH	d(MM)	I (MM)	A (MM)
STP-B 060001	1/2"	6	35-35	30
STP-B 060002	3/4"	6	35-35	35
STP-B 080003	1"	6	35-35	42
STP-B 080004	1 1/4"	8	40-40	50
STP-B 080005	1 1/2"	8	40-40	57
STP-B 100006	2"	8	45-45	70
STP-B 100007	2 1/2"	8	50-50	88
STP-B 120008	3"	10	60-60	104
STP-B 120009	4"	12	75-75	130
STP-B 120010	5"	12	80-80	162
STP-B 140011	6"	14	80-80	187
STP-B 160012	8"	16	80-80	236
STP-B 200013	10"	20	90-90	290
STP-B 200014	12"	20	95-95	340

DİKDÖRTGEN PROFİLLER

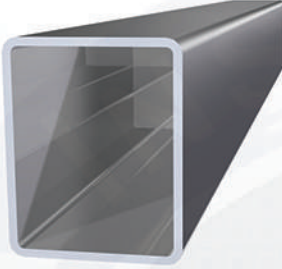


Ebat (mm)	DİKDÖRTGEN PROFİL Et kalınlığı (mm)															
	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	4.0	5.0	6.0	6.3	8.0	10.0
	Dikdörtgen demir profil birim ağırlıkları (kg/m)															
10x20	0.27	0.31	0.36	0.40	0.43	0.52	0.63									
10x25	0.31	0.36	0.41	0.45	0.50	0.59	0.75									
10x30	0.37	0.42	0.48	0.54	0.60	0.71	0.87	1.12								
15x20	0.32	0.37	0.42	0.47	0.52	0.61	0.75	0.97								
15x25	0.37	0.42	0.48	0.54	0.59	0.70	0.86	1.12	1.51							
15x30	0.40	0.47	0.53	0.61	0.68	0.83	0.99	1.29								
15x40		0.59	0.67	0.75	0.82	0.97	1.19	1.53								
20x25		0.48	0.55	0.61	0.67	0.80	0.98	1.28								
20x30		0.53	0.61	0.68	0.75	0.89	1.10	1.44	1.89	1.90						
20x35		0.59	0.67	0.75	0.82	0.97	1.22	1.53								
20x40			0.73	0.82	0.90	1.08	1.34	1.75	2.15	2.39						
20x50				0.97	1.07	1.27	1.57	2.07	2.54	2.86						
25x30				0.75	0.82	0.97	1.19	1.53								
25x35			0.73	0.82	0.91	1.09	1.34	1.75	2.15	2.39						
25x40			0.79	0.89	0.99	1.18	1.46	1.91	2.34	2.63						
25x50				1.04	1.15	1.37	1.69	2.22	2.74	3.10						
30x35				0.89	0.99	1.18	1.46	1.91	2.34	2.63						

DİKDÖRTGEN PROFİLLER

30x35				0.89	0.99	1.18	1.46	1.91	2.34	2.63						
30x40			0.85	0.95	1.07	1.27	1.57	2.07	2.54	2.86						
30x50			0.97	1.22	1.22	1.44	1.81	2.38	2.93	3.33	4.09					
30x60						1.65	2.05	2.69	3.33	3.80	4.88					
30x70						1.84	2.28	3.01	3.72	4.28	5.51					
40x50						1.65	2.05	2.69	3.33	3.80	4.88					
40x60						1.84	2.28	3.01	3.72	4.28	5.51	6.56				
40x80							2.75	3.64	4.50	5.22	6.76	8.13				
40x100							3.23	4.26	5.29	6.16	8.02	9.70				
50x60							3.6	3.32	4.11	4.75	6.14					
50x70							2.75	3.64	4.50	5.22	6.76	8.13				
50x90							3.23	4.26	5.29	6.16	8.02	9.70				
50x100							3.40	4.58	5.68	6.63	8.65	10.50				
50x150								6.15	7.64	8.99	11.80	14.40				
60x80							3.23	4.26	5.29	6.16	8.02	9.70				
60x100							3.62	4.89	6.07	7.10	9.28	11.30	13.20	13.50		
60x120							4.08	5.52	6.86	8.04	10.5	12.80	15.10	15.50		
80x100							4.08	5.52	6.86	8.04	10.50	12.80	15.10	15.50		
80x120										8.96	11.70	14.40	17.00	17.50	21.40	
80x140											13.00	16.00	18.90	19.40	23.90	
100x150											14.90	18.30	21.70	22.40	27.70	33.40
100x200											17.90	22.10	16.40	27.40	33.90	41.30
100x300													35.80	37.20	46.50	57.00
120x200											19.30	23.80	28.30	29.30	36.50	44.40
150x250												30.10	35.80	37.20	46.50	57.00
150x300													40.50	42.20	52.80	64.80
200x300											30.50	37.80	42.20	47.10	59.10	72.70
200x400											36.70	45.60	54.70	57.00	71.60	88.40
250x400											39.90	49.60	54.70	57.00	71.60	88.40

KARE PROFİLLER



Kare Profil Ölçüleri (mm)	Demir profil et kalınlığı (mm)															
	0.6	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	4.0	5.0	6.0	6.3	7.1	8.0
	Birim Ağırlık (kg/mt)															
10x10	0.17	0.20	0.23	0.25	0.28	0.32										
15x15	0.27	0.31	0.35	0.39	0.43	0.52	0.63									
20x20	0.36	0.42	0.48	0.54	0.59	0.70	0.86	1.12								
25x25		0.53	0.60	0.68	0.75	0.89	1.10	1.44	1.89	1.90						
30x30		0.64	0.73	0.82	0.90	1.08	1.34	1.75	2.15	2.39						
35x35			0.85	0.97	1.07	1.27	1.57	2.07	2.54	2.86						
40x40			0.97	1.09	1.21	1.44	1.81	2.38	2.93	3.33	4.09					
50x50						1.84	2.28	3.01	3.72	4.28	5.51	6.56				
60x60							2.75	3.64	4.50	5.22	6.76	8.13				
70x70							3.23	4.26	5.29	6.16	8.02	9.70				
80x80							3.62	4.89	6.07	7.10	9.28	11.30	13.20	13.50		
90x90							4.08	5.52	6.86	8.04	10.50	12.80	15.10	15.50		
100x100								6.15	7.64	8.99	11.70	14.20	17.00	17.50	19.40	21.40
120x120										10.80	14.20	17.40	20.70	21.40	23.80	26.40
140x140											16.80	20.50	24.50	25.40	28.30	31.40
150x150											18.00	22.10	26.40	27.40	30.50	33.90
160x160											19.20	23.80	28.30	29.30	32.70	36.50
180x180											21.80	26.80	32.10	33.30	37.20	41.50
200x200											24.20	29.90	35.80	37.20	41.60	46.50
220x220												33.20	39.60	41.20	46.10	51.50
250x250												38.30	45.20	47.90	53.70	60.30
260x260													47.10	49.10	56.00	61.60
300x300													55.10	57.80	64.90	72.80
350x350														66.90	75.10	84.20
400x400																96.70

TEE



TEE

DN	d ₁	s ₁	DN	d ₂	s ₂	a	b	Ağırlık (Weight)(Kg)
15	21.3	2.77	15	21.3	2.77	25.4	25.4	0.11
20	26.7	2.88	15	21.3	2.77	28.6	28.6	0.20
			20	26.7	2.87			0.17
25	33.4	3.38	15	21.3	2.77	38.1	38.1	0.29
			20	26.7	2.87			0.29
			25	33.4	3.8			0.29
32	42.4	3.56	20	26.7	2.87	47.6	47.6	0.50
			25	33.4	3.38			0.53
			32	42.2	3.56			0.61
40	48.3	3.68	15	21.3	2.77	57.2	57.2	0.76
			20	26.7	2.87			0.76
			25	33.4	3.38			0.76
			32	42.2	3.56			0.76
50	60.3	3.91	40	48.3	3.68	63.5	63.5	0.76
			20	26.7	2.87			44.5
			25	33.4	3.38			50.8
			32	42.2	3.56			57.2
			40	48.3	3.68			60.3
65	73	5.16	50	60.3	3.91	76.2	76.2	63.5
			25	33.4	3.38			57.2
			32	42.2	3.56			63.5
			40	48.3	3.68			66.7
			50	60.3	3.91			69.9
80	88.9	5.49	65	73	5.16	85.7	85.7	76.2
			25	33.4	3.38			66.7
			32	42.2	3.56			69.9
			40	48.3	3.68			73.0
			50	60.3	3.91			76.2
100	114.3	6.02	80	88.9	5.49	104.8	104.8	82.6
			40	48.3	3.68			85.7
			50	60.3	3.91			88.9
			65	73	5.16			95.3
			80	88.9	5.49			98.4
125	141.3	6.55	100	114.3	6.02	123.8	123.8	104.8
			50	60.3	3.91			104.8
			65	73	5.16			108
			80	88.9	5.49			111.1
			100	114.3	6.02			117.5
150	168.3	7.11	125	141.3	6.55	123.8	123.8	123.8
			65	73	5.16			120.7
			80	88.9	5.49			123.8
			100	114.3	6.02			130.2
			125	141.3	6.55			136.5
			150	168.3	7.11			142.9

DN	d ₁	s ₁	DN	d ₂	s ₂	a	b	Ağırlık (Weight)(Kg)
200	219.1	8.18	80	88.9	5.49	177.8	177.8	152.4
			100	114.3	6.02			155.6
			125	141.3	6.55			161.9
			150	168.3	7.11			168.3
			200	219.1	8.18			177.8
250	273	9.27	100	114.3	6.02	215.9	215.9	184.2
			125	141.3	6.55			190.5
			150	168.3	7.11			193.7
			200	219.1	8.18			203.2
			250	273	9.27			215.9
300	323.8	9.52	125	141.3	6.55	254	254	215.9
			150	168.3	7.11			219.1
			200	219.1	8.18			228.6
			250	273	9.27			241.3
			300	323.8	9.52			254
350	355.6	9.52	150	168.3	7.11	279.4	279.4	238.1
			200	219.1	8.18			247.7
			250	273	9.27			257.2
			300	323.8	9.52			269.9
			350	355.6	9.52			279.4
400	406.4	9.52	150	168.3	7.11	304.8	304.8	263.5
			200	219.1	8.18			273.1
			250	273	9.27			282.6
			300	323.8	9.52			295.3
			350	355.6	9.52			304.8
450	457.2	9.52	400	406.4	9.52	342.9	342.9	304.8
			200	219.1	8.18			298.5
			250	273	9.27			308
			300	323.8	9.52			320.7
			350	355.6	9.52			330.2
500	508	9.52	400	406.4	9.52	381	381	330.2
			450	457.2	9.52			342.9
			200	219.1	8.18			323.9
			250	273	9.27			333.4
			300	323.8	9.52			346.1
600	609.6	9.52	350	355.6	9.52	431.8	431.8	355.6
			400	406.4	9.52			355.6
			450	457.2	9.52			368.3
			500	508	9.52			381
			250	273	9.27			384.2
			300	323.8	9.52			396.9
			350	355.6	9.52			406.4
			400	406.4	9.52			406.4
			450	457.2	9.52			419.1
			500	508	9.52			431.8
			600	609.6	9.52			431.8

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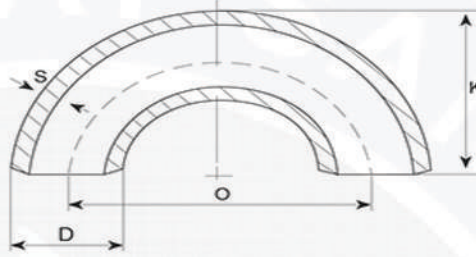
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Email info@oz-aygrup.com

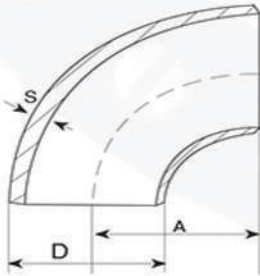
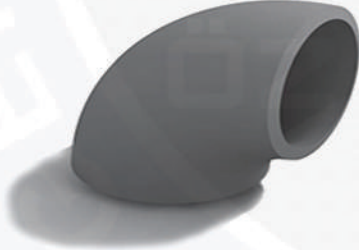
Adres İlyas Karadağ İş merkezi No:31/37
ALTINOVA YALOVA

DİRSEKLER

DİRSEK (180°)



DİRSEK (90°)



DN	D	T	A(90°)	O(180°)	K	Ağırlık 90° (Weight)(Kg)	Ağırlık 180° (Weight)(Kg)
15	SCH 20	2	27.5	55	38	0.04	0.08
	SCH 40	2.77				0.08	0.16
	SCH 80	3.73				0.10	0.20
	SCH 20	26.9	2.3			0.06	0.12
20	SCH 40	26.7	2.87	28.5	42	0.08	0.16
	SCH 80	3.91				0.10	0.20
	SCH 20	33.7	2.6			0.12	0.24
25	SCH 40	33.4	3.38	38	55	0.15	0.30
	SCH 80	4.55				0.20	0.40
	SCH 20	42.4	2.6			0.19	0.38
32	SCH 40	42.2	3.56	47.5	69	0.26	0.52
	SCH 80	4.85				0.34	0.68
	SCH 20	50.8	2.6			0.26	0.52
40	SCH 40	48.3	3.68	57	81	0.38	0.76
	SCH 80	5.08				0.48	0.96
	SCH 20	58.3	2.9			0.49	0.98
50	SCH 40	60.3	3.91	76	106	0.68	1.36
	SCH 80	5.54				0.91	1.82
	SCH 20	76.1	2.9			0.78	1.56
65	SCH 40	74.1	5.16	95	133	1.33	2.66
	SCH 80	7.01				1.75	3.50
	SCH 20	88.9	3.2			1.22	2.44
80	SCH 40	88.9	5.49	114.5	159	2.08	4.16
	SCH 80	7.62				2.78	5.56
	SCH 20	100.0	3.6			2.36	4.72
100	SCH 40	114.3	6.02	152.5	210	3.95	7.90
	SCH 80	8.56				5.40	10.80
	SCH 20	139.7	4			4.01	8.02
125	SCH 40	141.3	6.55	190.5	261	6.67	13.34
	SCH 80	9.52				9.34	18.68
	SCH 20	168.3	4.5	228.5	313	6.53	13.06
150	SCH 40	168.3	7.11	221.5	306	10.40	20.80
	SCH 80	10.97				15.50	31.00
	SCH 20	200.0	5.9			15.80	31.60
200	SCH 40	219.1	8.18	305	415	20.90	41.80
	SCH 80	12.7				31.30	62.60
	SCH 20	273	6.3			24.80	49.60
250	STD	9.27				37.00	74.00
	SCH 40	12.7				49.40	98.80
	SCH 80	15.09				61.30	122.60
	SCH 20	323.9	7.1			39.80	79.60
300	STD	9.53				54.00	108.00
	SCH 40	10.31				61.50	123.00
	SCH 80	12.7				71.20	142.40
	SCH 20	355.6	8			94.70	189.40
350	STD	9.52				57.50	115.00
	SCH 40	11				69.90	139.80
	SCH 80	12.7				83.06	166.12
	SCH 20	406.4	8.8			91.60	183.20
400	STD	9.52				132.00	264.00
	SCH 40	12.5				82.60	165.20
	SCH 80	15.09				91.20	182.40
	SCH 20	457.2	10			105.30	210.60
450	STD	9.52				120.00	240.00
	SCH 40	14.2				195.00	390.00
	SCH 80	17.5				119.00	238.00
	SCH 20	508	11			116.00	232.00
500	STD	9.52				176.21	352.42
	SCH 40	12.7				153.00	306.00
	SCH 80	15.09				273.00	546.00
	SCH 20	600	12.7			161.00	322.00
600	STD	9.52				144.00	288.00
	SCH 40	12.7				282.00	564.00
	SCH 80	15.09				190.00	380.00
	SCH 20	1828	12.7			372.00	744.00
	SCH 80	30.96				260.00	520.00
	SCH 20	1828	9.52			208.00	416.00
	SCH 40	12.7				382.00	764.00
	SCH 80	15.09				275.00	550.00
	SCH 20	1828	12.7			510.00	1020.00

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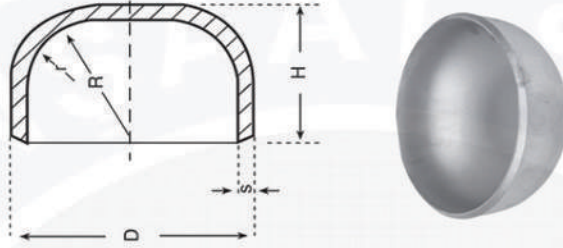
Email

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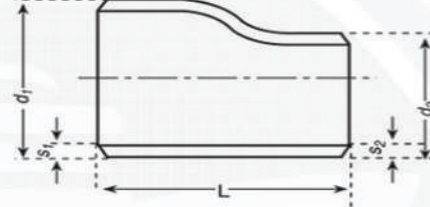
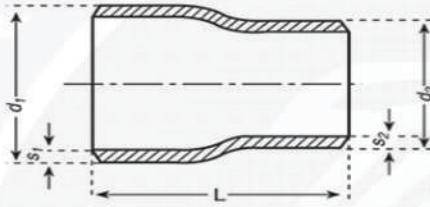
İlyas Karadağ İş merkezi No:31/37
ALTINOVA YALOVA

KEP



Çap O.D. D mm	Et kalınlığı Wall Thickness S			Boy Length H ca. mm	Ortalama Ağırlık Approx. Weight		
	SCH 20 mm	SCH 40 mm	SCH 80 mm		SCH 20 mm	SCH 40 mm	SCH 80 mm
21,3	2	2,9	3,6	32	0,02	0,03	0,04
26,9	2,3	2,9	4	32	0,04	0,05	0,07
30	2,6	3,6	4,5	38	0,07	0,09	0,12
33,7	2,6	3,6	4,5	38	0,07	0,09	0,13
38	2,6	3,6	4,8	38	0,10	0,14	0,16
42,4	2,6	3,6	4,8	38	0,11	0,15	0,18
44,5	2,6	3,6	5,1	38	0,13	0,18	0,20
48,3	2,6	3,6	5,1	38	0,14	0,19	0,22
57	2,9	4	5,6	38	0,25	0,31	0,44
60,3	2,9	4	5,6	38	0,26	0,32	0,45
76,1	2,9	5,6	7,1	38	0,34	0,52	0,68
88,9	3,2	5,6	8	50	0,50	0,76	1,26
101,6	3,6	6,3	8,8	60	0,94	1,32	1,87
108	3,6	6,3	8,8	64	0,96	1,34	1,91
114,3	3,6	6,3	8,8	64	1,07	1,49	2,13
133	4	7,1	10	75	1,40	2,25	3,10
139,7	4	7,1	10	75	1,55	2,50	3,45
159	4,5	7,1	11	90	2,40	3,20	4,75
168,3	4,5	7,1	11	90	2,65	3,55	5,30
219,1	5,9	8	12,5	100	5,20	6,70	10,35
267	6,3	10	12,5	127	7,75	9,70	13,55
273	6,3	10	12,5	127	8,10	10,10	14,15
323,9	7,1	11	12,5	152	11,75	16,15	17,80

REDÜKSİYON



ÇAP Dia. d ₁	KALINLIK Wall Thickness s ₁			ÇAP Dia. d ₂	KALINLIK Wall Thickness s ₂			L
	SCH 20	SCH 40	SCH 80		SCH 20	SCH 40	SCH 80	
26,9	2,3	2,9		21,3 17,2	2 1,8			38 38
33,7	2,6	3,6		26,9 21,3	2,3 2	2,9 2,9		50 50
42,4	2,6	3,6		33,7 26,9 21,3	2,6 2,3 2	3,6 2,9 2,9		50 50 50
48,3	2,6	3,6		42,4 33,7 26,9	2,6 2,6 2,3	3,6 3,6 2,9		64 64 64
60,3	2,9	4	5,6	48,3 42,4 33,7	2,6 2,6 2,6	3,6 3,6 3,6	5,6	76 76 76
76,1	2,9	5,6	7,1	60,3 48,3 42,4	2,9 2,6 2,6	4 3,6 3,6	5,6	90 90 90
88,9	3,2	5,6	8	76,1 60,3 48,3	2,9 2,9 2,6	5,6 4 3,6	7,1 5,6	90 90 90
114,3	3,6	6,3	8,8	88,9 76,1 60,3	3,2 2,9 2,9	5,6 5,6 4	8 7,1 5,6	100 100 100
139,7	4	7,1	10	114,3 88,9 76,1	3,6 3,2 2,9	6,3 5,6 5,6	8,8 8 7,1	127 127 127
168,3	4,5	7,1	11	139,7 114,3 88,9	4 3,6 3,2	7,1 6,3 5,6	10 8,8 8	140 140 140
219,1	5,9	8	12,5	168,3 139,7 114,3	4,5 4 3,6	7,1 7,1 6,3	11 10 8,8	152 152 152
273	6,3	10	12,5	219,1 168,3 139,7	5,9 4,5 4	8 7,1 7,1	12,5 11 10	178 178 178
323,9	7,1	10	12,5	273 219,1 168,3	6,3 5,9 4,5	10 8 7,1	12,5 12,5 11	203 203 203

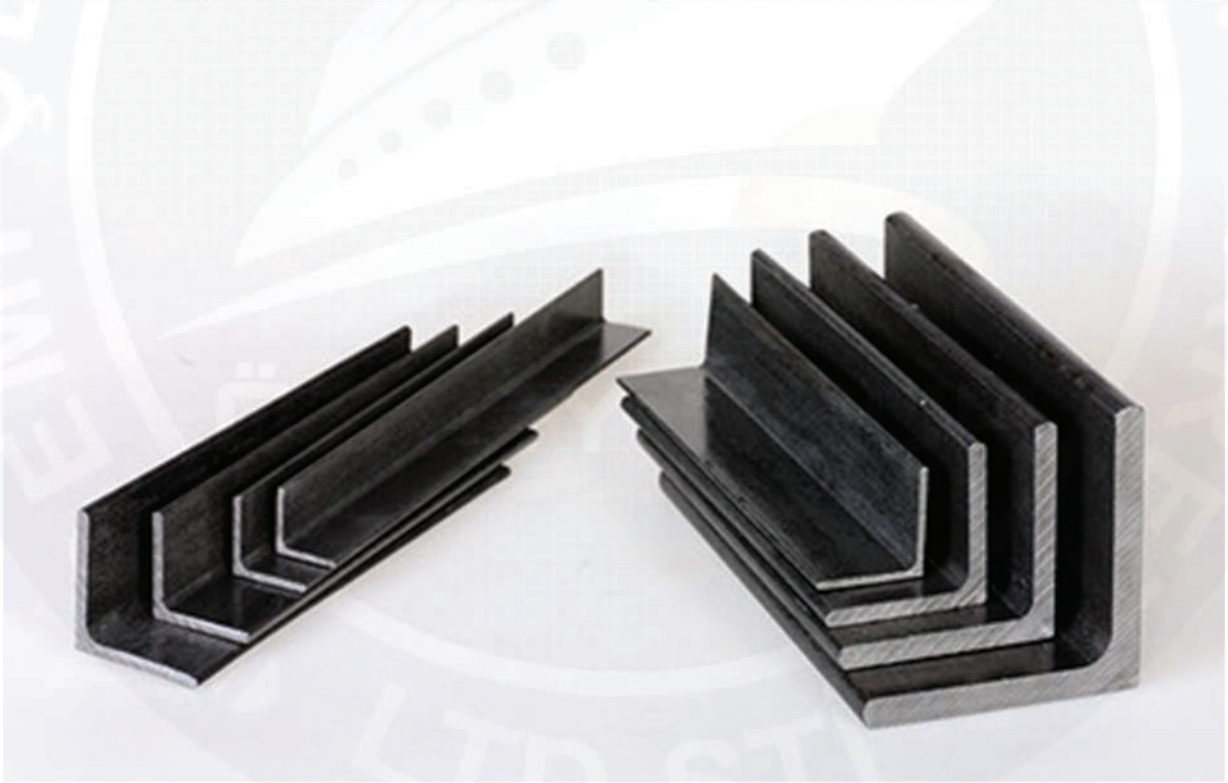
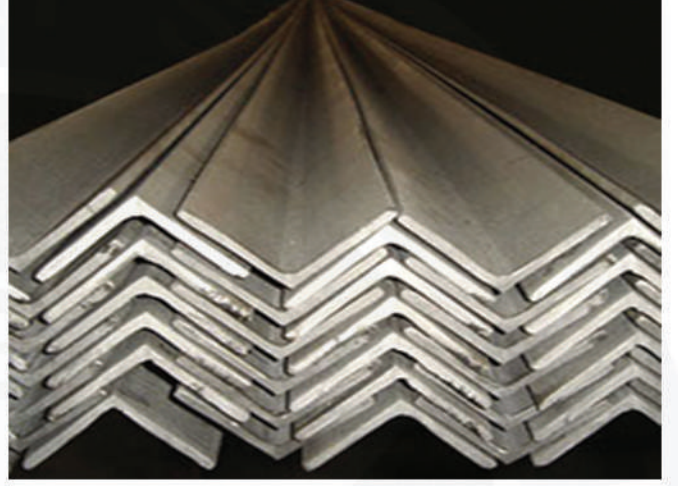
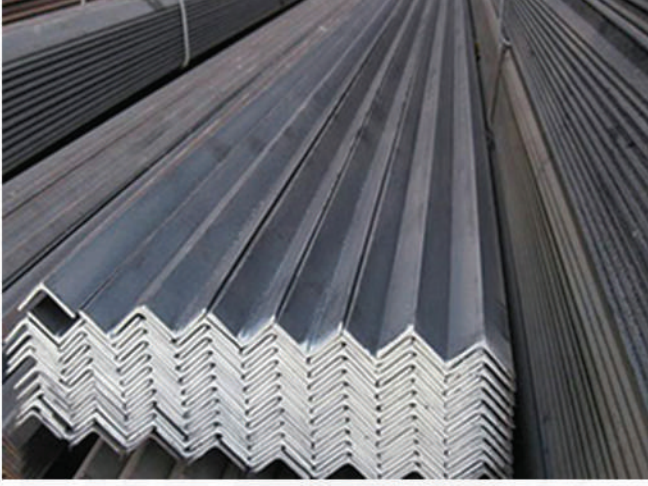
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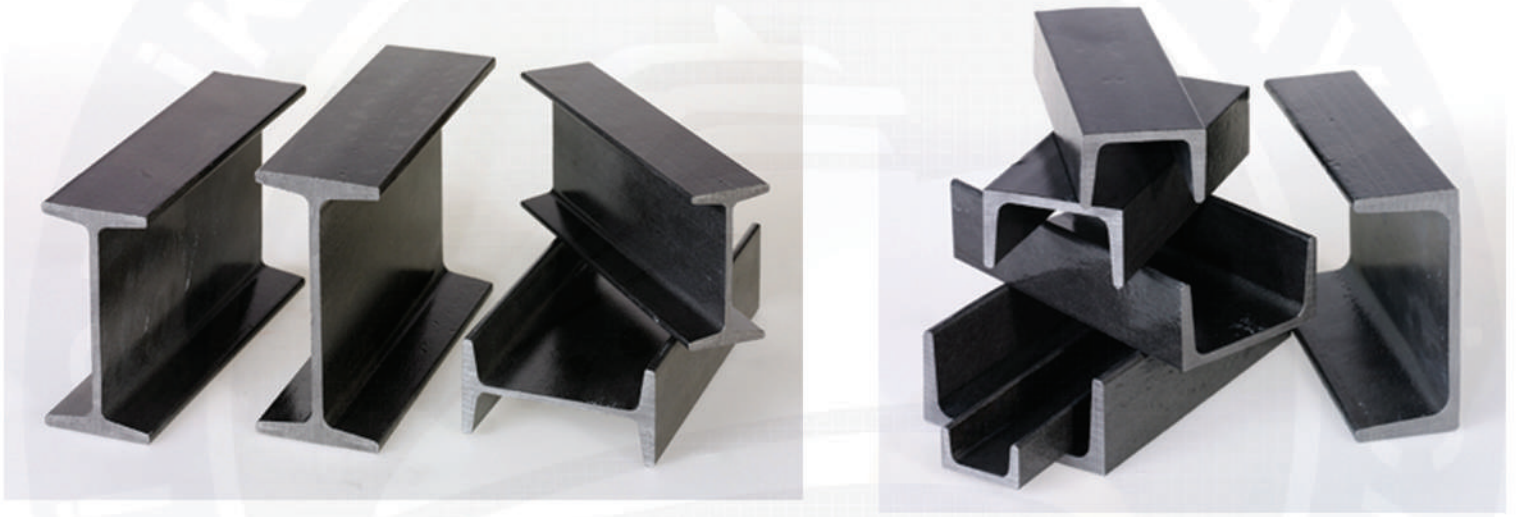
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KÖŞEBENTLER

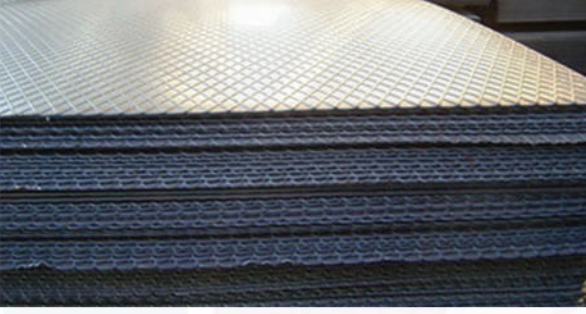


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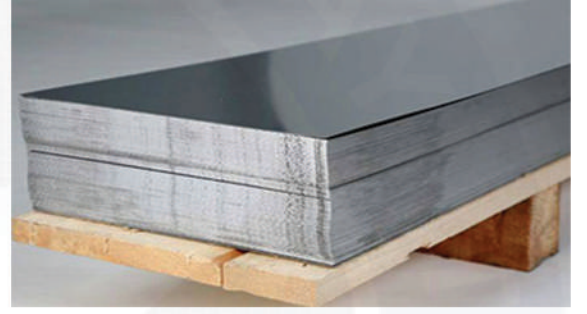


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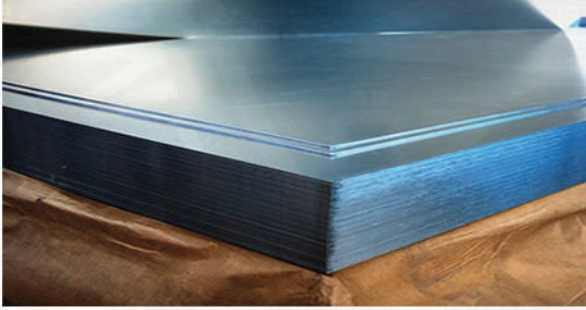
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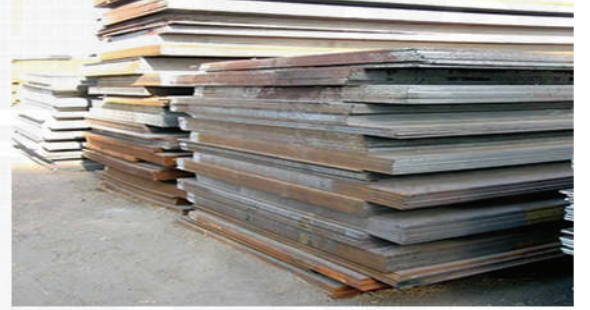
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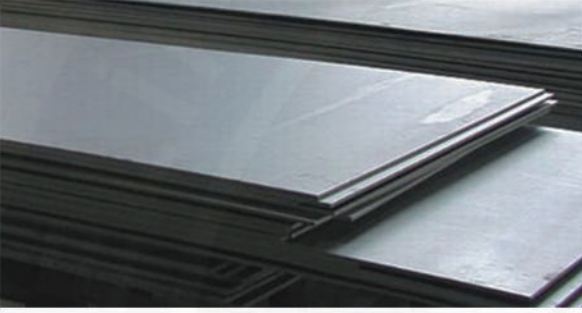


GEMİ SACI



SACLAR

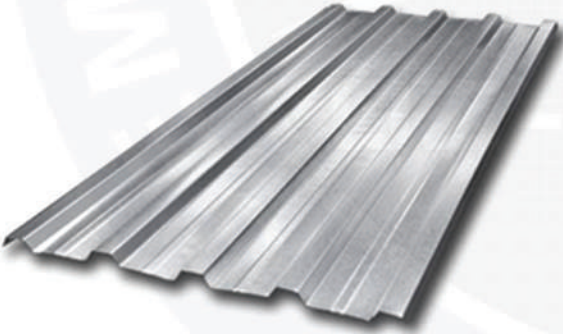
LEVHA SAC



PİRAMİT SAC



TRAPEZ SAC





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