



SERTDEMİR

ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.



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AĞIRLIK HESAPLAMALARI

YUVARLAK



$$D^2 \times 0.616 = \text{kg/m}$$

KARE



$$a^2 \times 0.785 = \text{kg/m}$$

LAMA



$$a \times b \times 0.785 = \text{kg/m}$$

ALTİ KÖŞE



$$a^2 \times 0.68 = \text{kg/m}$$

ÇELİK ÇUBUKLARIN BİRİM AĞIRLIKLARI (kg/m)

Elbat / Size (mm)	Yuvarlak	Kare	Altıköşe	Elbat / Size (mm)	Yuvarlak	Kare	Altıköşe
1	0.00616	0.00785	0.00680	80	39.424	50.240	43.520
2	0.02464	0.03140	0.02720	85	44.506	56.716	49.130
3	0.05544	0.07065	0.06120	90	49.896	63.585	55.080
4	0.09856	0.12560	0.10880	95	55.594	70.846	61.370
5	0.154	0.196	0.170	100	61.600	78.500	68.000
6	0.222	0.283	0.245	105	67.914	86.546	74.970
7	0.302	0.385	0.333	110	74.536	94.985	82.820
8	0.394	0.502	0.435	115	81.466	103.816	89.930
9	0.499	0.636	0.551	120	88.704	113.040	97.920
10	0.616	0.785	0.680	130	104.104	132.665	114.920
11	0.745	0.950	0.823	140	120.736	153.860	133.280
12	0.887	1.130	0.979	150	138.600	176.625	153.000
13	1.041	1.327	1.149	160	157.696	200.960	174.080
14	1.207	1.539	1.333	170	178.024	226.865	196.520
15	1.386	1.766	1.530	180	199.584	254.340	220.320
16	1.577	2.010	1.741	190	222.376	283.385	245.480
17	1.780	2.269	1.965	200	246.400	314.000	272.000
18	1.996	2.543	2.203	210	271.656	346.185	299.880
19	2.224	2.834	2.455	220	298.144	379.940	329.120
20	2.464	3.140	2.720	230	325.864	415.265	359.720
21	2.717	3.462	2.999	240	354.816	452.160	391.680
22	2.981	3.799	3.291	250	385.000	490.625	425.000
23	3.259	4.153	3.597	260	416.416	530.660	459.680
24	3.548	4.522	3.917	270	449.064	572.265	495.720
25	3.850	4.906	4.250	280	482.944	615.440	533.120
26	4.164	5.307	4.597	290	518.056	660.185	571.880
27	4.491	5.723	4.957	300	544.400	706.500	612.000
28	4.829	6.154	5.331	310	591.976	754.385	653.480
30	5.544	7.065	6.120	320	630.784	803.840	696.320
32	6.308	8.038	6.963	330	670.824	854.865	740.520
33	6.708	8.549	7.405	340	712.096	907.460	786.080
34	7.121	9.075	7.861	350	754.600	961.625	833.000
35	7.546	9.616	8.330	360	798.336	1017.360	881.280
36	7.983	10.174	8.813	370	843.304	1074.665	930.920
37	8.433	10.747	9.309	380	889.504	1133.540	981.920
38	8.895	11.335	9.819	400	985.600	1256.000	1088.000
39	9.369	11.940	10.343	420	1086.624	1384.740	1199.520
40	9.856	12.560	10.880	430	1138.984	1451.465	1257.320
42	10.866	13.847	11.995	450	1247.400	1589.625	1377.000
45	12.474	15.896	13.770	460	1303.456	1661.060	1438.880
46	13.035	16.611	14.389	470	1360.744	1734.065	1502.120
47	13.607	17.341	15.021	480	1419.264	1808.640	1566.720
48	14.193	18.086	15.667	500	1540.000	1962.500	1700.000
50	15.400	19.625	17.000	520	1665.664	2222.640	1838.720
52	16.657	21.226	18.387	550	1863.400	2374.625	2057.000
55	18.634	23.746	20.570	580	2072.224	2640.740	2287.520
57	20.014	25.505	22.093	600	2217.600	2826.000	2448.000
60	22.176	28.260	24.480	650	2602.600	3316.625	2873.000
62	23.679	30.175	26.139	700	3018.400	3846.500	3332.000
65	26.026	33.166	28.730	750	3465.000	4415.625	3825.000
67	27.652	35.239	30.525	800	3942.400	5024.000	4352.000
70	30.184	38.465	33.320	850	4450.600	5671.625	4913.000
75	34.650	44.156	38.250	900	4989.600	6358.500	5508.000
77	36.523	46.543	40.317	1000	6160.000	7850.000	6800.000



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KARBON ÇELİKLERİ

Kalite Quality	Kimyasal Bileşim (%)			Chemical Composition (%)			Kullanım Alanları ve Özellikleri
SAE AISI	C	Si	Mn	P max	S max	N	
1010	0.08 0.13	0.15 0.35	0.30 0.60	0.040	0.050		Civata, somun, konstrüksiyonda gövde olarak latah edilebilir makina parçaları imalatında kullanılır.
1020	0.18 0.23	0.15 0.35	0.30 0.60	0.040	0.050		Makina, civata, somun yapımında kullanılır. Isıl işlem uygulanabilir.
1025	0.22 0.28	0.15 0.35	0.30 0.60	0.040	0.050		Makina, civata, somun yapımında kullanılır. Isıl işlem uygulanabilir.
1030	0.28 0.34	0.15 0.35	0.60 0.90	0.040	0.050		Makina, dingil, çami şaftı, civata vs. yapımında.
1035	0.32 0.38	0.15 0.35	0.60 0.90	0.040	0.050		Civata, taşıyıcı dingil, uskur mili, dişli çark yapımında. İndüksiyon ve alevle sertleştirilebilir.
1040	0.37 0.44	0.15 0.35	0.60 0.90	0.040	0.050		Transmisyon mili, ray, dişli vs. yapımında kullanılır. İndüksiyon ve alevle sertleştirilebilir.
1045	0.43 0.50	0.15 0.35	0.60 0.90	0.040	0.050		Dişli çark, kancas, çapa, kazma, kürek vs. yapımında. İndüksiyon ve alevle sertleştirilebilir.
1050	0.45 0.55	0.15 0.35	0.60 0.90	0.040	0.050		Çer kancası, dişli, kazma, frezeli mil yapımında kullanılır.
1060	0.55 0.65	0.15 0.35	0.60 0.90	0.040	0.050		Mil, şaft, civata yapımında kullanılır.
1070	0.65 0.75	0.15 0.35	0.60 0.90	0.040	0.050		Spiral ve yaprak yaylar, makas, kesici basit takımlar, zımba, keeme kalıpları yapımında kullanılır.
1090	0.85 0.98	0.15 0.35	0.60 0.90	0.040	0.050		Keçe dişli, greyder bıçağı, yüksek mukavemetli makina parçaları, ağı, keser, ağaç testeresi, zımba.
St 37	0.10 0.17		0.20 0.50	0.040	0.050	0.007	İnşaat ve sanayide kullanılan çubuk ve sıcak haddelenmiş profil yapımında kullanılır.
St 42	0.18 0.23	0.15 0.35	0.20 0.50	0.040	0.040	0.007	İnşaat ve sanayide kullanılan yüksek mukavemetli sıcak çekilmiş profil yapımında kullanılır.
St 50-2	0.27 0.34		0.20 0.50	0.050	0.050	0.009	Basma gerilimine maruz yüklerde, manivela, mil, kassas oluşturan dişli, kalıp ve pres aletleri imalinde.
St 52-3	0.15 0.20	0.20 0.40	1.20 1.50	0.040	0.040	0.009	Sanayi ve inşaat sektöründe mukavemet gerektiren durumlarda.
St 60	0.36 0.44		0.20 0.50	0.050	0.050	0.009	Mukavemet gerektiren makina elemanları, dişli çark vs. yapımında kullanılır.
St 70	0.46 0.54		0.20 0.50	0.050	0.050	0.009	Pergin, özel civata kama ve mukavemet gerektiren makina elemanları yapımında kullanılır.
C 22	0.17 0.24		0.30 0.60	0.045	0.045		Makina elemanları, civata, somun imalinde kullanılır. Isıl işlem uygulanabilir.
C 35	0.32 0.39		0.50 0.80	0.045	0.045		Civata, uskur mili, dişli çark, taşıyıcı dingil yapımında kullanılır. Isıl işlem uygulanabilir. İndüksiyon ve alevle sertleştirilebilir.
C 45	0.42 0.50		0.50 0.80	0.045	0.045		Frezeli mil, ray, yük kancası, manivela kolu vs. yapımında kullanılır. Isıl işlem uygulanabilir. İndüksiyon ve alevle sertleştirilebilir.
C 60	0.57 0.65		0.60 0.90	0.045	0.045		Tipik çelik malzemelerin kullandığı yerlerde kullanılır. Sertleşme kabiliyeti ve mukavemeti daha yüksektir.
Ck 15	0.12 0.18		0.30 0.60	0.035	0.035		Makina elemanı yapımında ve mukavemet gerektiren yerlerde kullanılır. Isıl işlem uygulanabilir.
Ck 22	0.17 0.24		0.30 0.60	0.035	0.030		Makina elemanları, civata, somun, mil, kama yapımında kullanılır. Sementlenebilir.



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ISLAH ÇELİKLERİ

Matzema No. Material No.	Kalite	Quality	Kimyasal Bileşim (%)					Chemical Composition (%)			
	DIN	SAE / AISI	C	Si	Mn	Pmax	Smax	Cr	Mo	Ni	V
1.0402	C 22	1020	0.18-0.25	0.15-0.35	0.30-0.60	0.045	0.45	-	-	-	-
1.0501	C 35	1035	0.32-0.39	0.15-0.35	0.50-0.80	0.045	0.45	-	-	-	-
1.0503	C 45	1045	0.42-0.50	0.15-0.35	0.50-0.80	0.045	0.45	-	-	-	-
1.0535	C 55	1055	0.52-0.60	0.15-0.60	0.60-0.90	0.045	0.45	-	-	-	-
1.0601	C 60	1060	0.57-0.65	0.15-0.35	0.60-0.90	0.045	0.45	-	-	-	-
1.1151	Ck 22	1020/1023	0.18-0.25	0.15-0.35	0.30-0.35	0.035	0.035	-	-	-	-
1.1180	Cm 35	1035	0.32-0.49	0.15-0.35	0.50-0.80	0.035	0.020-0.035	-	-	-	-
1.1181	Ck 35	1035	0.32-0.39	0.15-0.35	0.50-0.80	0.035	0.035	-	-	-	-
1.1186	Ck 40	1040	0.37-0.44	0.15-0.35	0.50-0.80	0.035	0.035	-	-	-	-
1.1191	Ck 45	1045	0.42-0.50	0.15-0.35	0.50-0.80	0.035	0.035	-	-	-	-
1.1201	Cm 45	1045	0.42-0.50	0.15-0.35	0.50-0.80	0.035	0.020-0.035	-	-	-	-
1.1203	Ck 55	1055	0.52-0.60	0.15-0.35	0.60-0.90	0.035	0.035	-	-	-	-
1.1206	Ck 50	1050	0.45-0.55	0.15-0.35	0.60-0.90	0.035	0.035	-	-	-	-
1.1209	Cm 55	1055	0.52-0.60	0.15-0.35	0.60-0.90	0.035	0.020-0.035	-	-	-	-
1.1221	Ck 60	1060	0.57-0.65	0.15-0.35	0.60-0.90	0.035	0.035	-	-	-	-
1.1223	Cm 60	-	0.57-0.65	0.15-0.35	0.60-0.90	0.035	0.020-0.035	-	-	-	-
1.5038	40 Mn 4	1039	0.36-0.44	0.25-0.50	0.80-1.10	0.035	0.035	-	-	-	-
1.5065	28 Mn 6	1330	0.25-0.32	0.15-0.40	1.30-1.65	0.035	0.035	-	-	-	-
1.6511	36 CrNiMo 4	9840	0.32-0.40	0.15-0.40	0.50-0.80	0.035	0.035	0.90-1.20	0.15-0.30	0.90-1.20	-
1.6580	30 CrNiMo 8	-	0.26-0.33	0.15-0.40	0.40-0.70	0.035	0.035	1.40-1.70	0.30-0.50	1.80-2.20	-
1.6582	34 CrNiMo 6	4340	0.30-0.38	0.15-0.40	0.30-0.60	0.035	0.035	1.80-2.20	0.15-0.30	1.40-1.70	-
1.7003	38 Cr 2	-	0.34-0.41	0.15-0.40	0.50-0.80	0.035	0.035	0.40-0.60	-	-	-
1.7006	46 Cr 2	5045	0.42-0.50	0.15-0.40	0.50-0.80	0.035	0.035	0.40-0.60	-	-	-
1.7033	34 Cr 4	5132	0.30-0.37	0.15-0.40	0.60-0.90	0.035	0.035	0.90-1.20	-	-	-
1.7034	37 Cr 4	5135	0.34-0.41	0.15-0.40	0.60-0.90	0.035	0.035	0.90-1.20	-	-	-
1.7035	41 Cr 4	5140	0.38-0.45	0.15-0.40	0.60-0.90	0.035	0.035	0.90-1.20	-	-	-
1.7037	34 CrS 4	-	0.30-0.37	0.15-0.40	0.60-0.90	0.035	0.020-0.035	0.90-1.20	-	-	-
1.7038	37 CrS 4	-	0.34-0.41	0.15-0.40	0.60-0.90	0.035	0.020-0.035	0.90-1.20	-	-	-
1.7039	41 CrS 4	-	0.38-0.45	0.15-0.40	0.50-0.80	0.035	0.020-0.035	0.90-1.20	-	-	-
1.7218	25 CrMo 4	4130	0.22-0.29	0.15-0.40	0.50-0.80	0.035	0.035	0.90-1.20	0.15-0.30	-	-
1.7220	34 CrMo 4	4135/4137	0.30-0.37	0.15-0.40	0.50-0.80	0.035	0.035	0.90-1.20	0.15-0.30	-	-
1.7225	42 CrMo 4	4140	0.38-0.45	0.15-0.40	0.50-0.80	0.035	0.035	0.90-1.20	0.15-0.30	-	-
1.7226	34 CrMoS 4	-	0.30-0.37	0.15-0.40	0.50-0.80	0.035	0.020-0.035	0.90-1.20	0.15-0.30	-	-
1.7227	42 CrMoS 4	-	0.38-0.45	0.15-0.40	0.50-0.40	0.035	0.020-0.035	0.90-1.20	0.15-0.30	-	-
1.7228	50 CrMo 4	4150	0.46-0.51	0.15-0.40	0.50-0.80	0.035	0.035	0.90-1.20	0.15-0.30	-	-
1.7361	32 CrMo 12 4	-	0.28-0.35	0.15-0.40	0.40-0.70	0.035	0.035	2.80-3.30	0.30-0.50	0.60	-
1.7707	30 CrMo V 9	-	0.26-0.34	0.15-0.40	0.40-0.70	0.035	0.035	2.30-2.70	-	-	0.10-0.20
1.8159	50 CrV 4	6150	0.47-0.55	0.15-0.40	0.70-1.10	0.035	0.035	0.90-1.20	-	-	0.10-0.20



SERTDEMİR
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OTOMAT ÇELİKLERİ

Malzeme No Material No	Kalite Quality	Kimyasal Bileşim (%)				Chemical Composition (%)	
		C	Si	Mn	Pmax	S	Pb
Isıl İşlem Uygulanmayanlar							
1.0711	9 S 20	0.13	0.05	0.60 1.20	0.10	0.18 0.25	-
1.0715	9 S Mn 28	0.14	0.05	0.90 1.30	0.10	0.27 0.33	-
1.0718	9 S Mn Pb 28	0.14	0.05	0.90 1.30	0.10	0.27 0.33	0.15 0.35
1.0736	9 S Mn 36	0.15	0.05	1.10 1.50	0.10	0.34 0.40	-
1.0737	9 S Mn Pb 36	0.15	0.05	1.10 1.50	0.10	0.34 0.40	0.15 0.35
1.0718	11SMn Pb 30	0.14	0.05	0.90 1.30	0.10	0.24 0.32	0.15 0.30
1.0728	11SMn Pb 37	0.15	0.05	1.00 1.50	0.10	0.32 0.40	0.15 0.30
Sementasyon Uygulanınlar							
1.0721	10 S 20	0.07 0.13	0.10 0.30	0.70 1.10	- 0.06	0.18 0.25	-
1.0722	10 S Pb 20	0.07 0.13	0.10 0.30	0.70 1.10	- 0.06	0.18 0.25	0.15 0.35
Isıl İşlem Uygulanınlar							
1.0726	35 S 20	0.32 0.39	0.10 0.30	0.70 1.10	- 0.06	0.18 0.25	-
1.0727	45 S 20	0.42 0.50	0.10 0.30	0.70 1.10	- 0.06	0.18 0.25	-
1.0728	60 S 20	0.57 0.65	0.10 0.30	0.70 1.10	- 0.06	0.18 0.25	-

SEMENTASYON ÇELİKLERİ

Malzeme No Material No	Kalite Quality	SAE / AISI	Kimyasal Bileşim (%)				Chemical Composition (%)			
			C	Si	Mn	Pmax	Smax	Cr	Mo	Ni
1.0301	C 10	1010	0.07-0.13	0.15-0.35	0.30-0.60	0.045	0.045	-	-	-
1.0401	C 15	1015	0.12-0.18	0.15-0.35	0.30-0.60	0.045	0.045	-	-	-
1.1121	Ck 10	1010	0.07-0.13	0.15-0.35	0.30-0.60	0.035	0.035	-	-	-
1.1140	Cm 15	-	0.12-0.18	0.15-0.35	0.30-0.60	0.035	0.020-0.35	-	-	-
1.7015	Ck 15	1015	0.12-0.18	0.15-0.40	0.40-0.60	0.035	0.035	0.40-0.70	-	-
1.7131	16 MnCr 5	5115	0.14-0.19	0.15-0.40	1.00-1.30	0.035	0.035	0.80-1.10	-	-
1.7147	20 MnCr 5	5120	0.17-0.22	0.15-0.40	0.60-0.90	0.035	0.035	1.00-1.30	-	-
1.7321	20 MoCr 4	-	0.17-0.22	0.15-0.40	0.60-0.90	0.035	0.035	0.30-0.50	0.40-0.50	-
1.7325	25 MoCr 4	-	0.23-0.29	0.15-0.40	0.40-0.60	0.035	0.035	0.40-0.60	0.40-0.50	-
1.5919	15 CrNi 8	-	0.12-0.17	0.15-0.40	0.40-0.60	0.035	0.035	1.40-1.70	-	1.40-1.70
1.5920	18 CrNi 8	-	0.15-0.20	0.15-0.40	0.40-0.60	0.035	0.035	1.80-2.10	-	1.60-2.10
1.6587	17 CrNiMo 6	-	0.14-0.19	0.15-0.40	0.40-0.60	0.035	0.035	1.50-1.80	0.25-0.35	1.40-1.70
1.6523	21 CrNiMo 2	8620	0.18-0.23	0.20-0.35	0.70-0.90	0.040	0.040	0.40-0.60	0.15-0.25	0.40-0.70
1.7015	15Cr 3	5015	0.12-0.18	0.15-0.40	0.40-0.60	0.035	0.035	0.40-0.70	-	-
1.7139	16 MnCrS 5	-	0.14-0.19	0.15-0.40	1.00-1.30	0.035	0.020-0.35	0.80-1.10	-	-
1.7149	20 MnCrS 5	-	0.17-0.22	0.15-0.40	1.10-1.40	0.035	0.020-0.35	1.00-1.30	-	-
1.7323	20 MoCrS 4	-	0.17-0.22	0.15-0.40	0.60-0.90	0.035	0.020-0.35	0.30-0.50	0.40-0.50	-
1.7326	25 MoCrS 4	-	0.23-0.29	0.15-0.40	0.60-0.90	0.035	0.020-0.35	0.40-0.60	0.40-0.50	-
1.5713	15 NiCr 8	3415	0.10-0.17	0.15-0.35	0.30-0.50	0.035	0.035	0.65-0.85	-	1.35-1.50
1.5752	14 NiCr 14	3415/3310	0.10-0.18	0.15-0.40	0.40-0.70	0.035	0.035	0.60-0.90	-	3.00-3.50
1.7243	18 CrMo 4	-	0.15-0.21	0.15-0.40	0.60-0.90	0.035	0.035	0.90-1.20	0.15-0.25	-



SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

STANDARTLARIN KARŞILAŞTIRILMASI

Materyal No Material No	Almanya Germany DIN	Avrupa Europe EN	İngiltere Great Britain B. S.	İtalya Italy UNI	Fransa France AFNOR	Japonya Japan JIS	ABD U.S.A. AISI / SAE / ASTM
1.0037	(Fe 360 B) St 37-2	S235JR	Fe 360 B / 6323-ERW3.CEW3 1449 37 / 23 HR	Fe 360 B / C / D	E 24 - 2	3TKM 12 A / C	1015 A 283 Gr. C
1.0044	(Fe 430 B) St 44-2	S275JR	Fe 430 B / FN / 1449 43/25 HR.HS 4360-43 B/ 6323 HPW 4 HFS4. ERW 3. CEW 4. SAW 4	Fe 430 B Fe 430 B FN	E 28 - 2	SM 400 A / B / C	1020 A 570 Gr. 40 A 572 Gr. 42
1.0330	DC 01 St 2/ St 12	-	1449 4 CR 1449 4 CS	FeP 00 FeP 01	TC	SPCC	A 366 (1012) 1000
1.0301	C 10	C 10	040 A 10 045 M 10 1449 10 CS	C 10 1 C 10	C 10 AF 34 C10 XC 10	S 10 C	1010
1.0605	C 75	-	1449 90 HS	C 75	C 75	-	1074 1075
1.0715	9 SMn 28	11 SMn 30	230 M 07	CF 9 SMn 28	S 250	SUM 22	1213
1.0718	9 SMnPb 28	11 SMnPb 30	-	CF 9 SMnPb 28	S 250 Pb	SUM 22 L SUM 23 L SUM 24 L	12 L-13
1.0721	10 S 20	-	210 M 15	CF 10 S 20	10 F 2	-	1108 1109
1.0722	10 SPb 20	10 SPb 20	-	CF 10 SPb 20	10 PbF 2	-	11 L 08
1.0723	15 S 22 15 S 20	-	210 A 15 210 M 15	-	-	SUM 32	-
1.0726	35 S 20	35 S 20	212 M 36	-	35 MF 6	-	1140
1.0727	45 S 20	46 S 20	-	-	45 MF 4	-	1146
1.0736	9 SMn 36	11 SMn 37	-	CF 9 SMn 36	S 300	SUM 25	1215
1.0737	9 SMnPb 36	11 SMnPb 30	-	CF 9 SMnPb 36	S 300 Pb	-	12 L 14
1.1121	Ck 10	C 10 E	040 A 10	C 10 2 C 10 2 C 15	C 10 XC 10	S 9 Ck S 10 C	1010
1.1133	20 Mn 5	-	120 M 19	G 22 Mn 3 20 Mn 7	20 M 5	SMnC 420	1022 1518
1.1141	Ck 15	C 15 E	040 A 15 080 M 15	C 15 C 16	XC 12 XC 15 C 18 /XC 18	S 15 S 15 Ck	1015
1.1151	Ck 22	C 22 E	055 M 15 070 M 20	C 20 C 25	2 C 22 XC 18 / XC 25	S 20 C S 20 Ck / S 22 C	1020 1023
1.1157	40 Mn 4	-	150 M 36	-	35 M 5 40 M 5	-	1035 1041
1.1158	Ck 25	C 25 E	070 M 26	C 25	2 C 25 XC 25	S 25 C S 28 C	1025
1.1165	30 Mn 5	-	120 M 36 150 M 28	-	35 M 5	SMn 433 H SCMn 2	1036 1030
1.1166	34 Mn 5	-	-	-	-	SMn 433 H	1536
1.1167	36 Mn 5	-	150 M 36	-	35 M 5 40 M 5	SMn 438 H SCMn 1	1335
1.1170	28 Mn 8	-	150 M 28 150 M 19	C 28 Mn	20 M 5 28 Mn 6	SCMn 1	1330
1.1178	Ck 30	C 30 E	080 M 30	C 30	XC 32	S 30 CM	-
1.1180	CM 35	C 35 R	080 A 35	-	3 C 35 XC 32	-	1035
1.1181	Ck 35	C 35 E	080 A 35 080 M 36	C 35	C 35 / 2 C 35 XC 32 XC 38 H 1	S 35 C	1035 1038
1.0401	C 15	-	080 A 15 080 M 15 1449 17 CS	C 15 C 16 1 C 15	C 18 AF 37 C 12 XC 18	S 15 C	M 1015 M 1016 M 1017
1.0402	C 22	-	95 M 15 070 M 20 / 1449 22 HS. CS	C 20 C 21 / C 25	AF 42 C 20 XC 25 / 1 C 22	S 20 C S 22 C	M 1020 M 1023
1.0406	C 25	-	070 M 26	C 25 1 C 25	1 C 25	-	M 1025
1.0501	C 35	-	080 A 32 080 A 35 080 M 36 / 1449 40 CS	C 35 1 C 35	C 35 1 C 35 AF 55 C 35 / XC 38	S 35 C	1035
1.0503	C 45	-	080 A 47 080 M 46 1449 50 HS. CS	C 45 1 C 45	C 45 1 C 45 AF 65 C 45	S 45 C	1045
1.0511	C 40	-	080 M 40	C 40 1 C 45	1 C 40 AF 60 C 40	-	1040
1.0535	C 55	-	070 M 55 5770- 50	C 55 1 C 55	C 54/ 1 C 55 AF 70 C 55	S 55 C	1055
1.0540	C 50	-	-	C 50	C 50	-	-
1.0601	C 60	-	060 A 62 / 5770 - 60 1449/ 60 HS. CS	C 60 1 C 60	C 60/ 1 C 55 AF 70 C 55	S 58 C	1060
1.0603	C 67	-	080 A 67 1449/ 60 HS. CS	C 67	C 68 XC 65	-	1070



SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

DİKDÖRTGEN PROFİLLER

TS 6475-5317
DIN 2395

Ebat Size (mmxmm)	Et Kalınlığı (mm)											Wall Thickness (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	
	Birim Ağırlık (kg/m)											Unit Weight (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							
30x40			0.85	0.95	1.07	1.27	1.57	2.07	2.54	2.86							
30x50			0.97	1.09	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							2.52	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	10.50	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	17.5	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	26.40	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	
250x450														66.90	84.20	104.0	
300x500														76.90	96.70	120.0	



SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

KARE PROFİLLER

TS 6475/5317
DIN 2395

Ebat Size (mmxmm)	Et Kalınlığı (mm)										Wall Thickness (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	10.0	12.5	16.0	
	Birim Ağırlık (kg/m)										Unit Weight (kg/m)									
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	25.60			
120x120										10.80	14.20	17.40	20.70	21.40	23.80	26.40	31.80	36.90		
140x140											16.80	20.50	24.50	25.40	28.30	31.40	38.10	44.80		
150x150											18.00	22.10	26.40	27.40	30.50	33.90	41.30	48.70	58.70	
160x160											19.20	23.80	28.30	29.30	32.70	36.50	44.40	52.60	63.70	
180x180											21.80	26.80	32.10	33.30	37.20	41.50	50.70	61.50	73.80	
200x200											24.20	29.90	35.80	37.20	41.60	46.50	57.00	69.40		
220x220												33.20	39.60	41.20	46.10	51.50	63.20	77.20		
250x250												38.30	45.20	47.90	53.70	60.30	74.50	91.90		
260x260													47.10	49.10	56.00	61.60	75.80	92.90		
300x300													55.10	57.80	64.90	72.80	90.20	112.0		
350x350														66.90	75.10	84.20	104.0	128.0		
400x400																96.70	120.0	149.0		

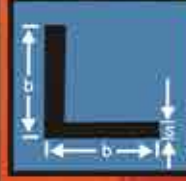


SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

EŞİTKENAR KÖŞEBENTLER

Kısa İşaret Short mark	Boyutlar Dimensions (mm)		Ağırlık Weight kg/m	Kısa İşaret Short mark	Boyutlar Dimensions (mm)		Ağırlık Weight kg/m
L	b	s	kg/m	L	b	s	kg/m
20x20	20	3	0.88	90x90	90	6	8.30
25x25	25	4	1.14			8	10.9
		3	1.12			9	12.2
		4	1.45			10	13.4
		5	1.77			11	14.7
30x30	30	3	1.36	100x100	100	13	17.1
		4	1.76			6.5	9.90
		5	2.18			7	10.7
35x35	35	3	1.60			8	12.2
		4	2.09			10	15.0
		5	2.57			12	17.8
40x40	40	3	1.84	110x110	110	14	20.6
		4	2.42			15	21.9
		5	2.97			16	23.2
45x45	45	6	3.52			20	28.4
		3	2.09			10	16.6
		4	2.74	120x120	120	12	19.7
50x50	50	5	3.38			14	22.8
		6	4.00			8	14.7
		3	2.33			10	18.2
55x55	55	4	3.06			11	19.9
		5	3.77	130x130	130	12	21.6
		6	4.47			13	23.3
60x60	60	5	4.18			15	26.6
		6	4.95			12	23.6
		7	5.71	140x140	140	14	27.2
65x65	65	4	3.70			16	30.9
		5	4.57			13	27.5
		6	5.42	150x150	150	15	31.4
70x70	70	7	6.26			17	35.3
		5	4.98			12	27.3
		6	5.91	160x160	160	14	31.6
75x75	75	7	6.83			15	33.8
		8	7.73			16	35.9
		9	8.62	180x180	180	18	40.1
80x80	80	5	5.37			15	36.2
		6	6.38			17	40.7
		7	7.38	200x200	200	16	43.5
85x85	85	8	8.36			18	48.6
		9	9.37			20	53.7
		11	11.2			22	58.6
90x90	90	5	5.78	250x250	250	20	75.6
		6	6.87			22	82.8
		7	7.94			24	90.0
95x95	95	8	9.03			25	93.5
		10	11.1			26	97.0
		12	13.1			27	10.5
100x100	100	6	7.34			28	104.0
		7	8.49				
		8	9.63				
105x105	105	9	10.8				
		10	11.9				
		12	14.1				

TS 908
DIN 1028



TS 909
DIN 1029



ÇEŞİTKENAR KÖŞEBENTLER

Kısa İşaret Short mark	Boyutlar Dimensions (mm)			Ağırlık Weight kg/m
L	a	b	s	kg/m
30x20	30	20	3	1.11
40x20	40	20	4	1.45
			3	1.35
40x25	40	25	4	1.77
			3	1.93
45x30	45	30	4	1.72
			3	2.25
50x30	50	30	4	2.77
			5	2.41
50x40	50	40	4	2.96
			5	2.71
60x30	60	30	5	3.35
			4	3.77
60x40	60	40	5	4.79
			4	4.35
65x50	65	50	7	5.97
			9	7.52
70x50	70	50	6	5.40
			7	6.51
75x50	75	50	9	8.23
			5	4.95
75x55	75	55	7	6.80
			9	8.59
80x40	80	40	6	5.41
			8	7.07
80x60	80	60	7	7.36
			8	8.66
80x65	80	65	10	10.7
			6	6.82
90x60	90	60	8	8.96
			6	6.85
100x50	100	50	8	8.99
			7	8.77
100x65	100	65	9	11.1
			11	13.4
100x75	100	75	7	9.32
			9	11.8
120x80	120	80	11	14.3
			8	12.2
130x65	130	65	10	15.0
			12	17.8
100x75	100	75	8	11.9
			10	14.6
130x90	130	90	12	17.3
			7	9.30
100x75	100	75	9	11.8
			11	14.3
150x75	150	75	9	15.3
			11	18.6
150x90	150	90	10	18.2
			11	19.9
150x100	150	100	10	19.0
			12	22.6
150x100	150	100	14	26.1
			12	21.6

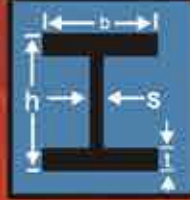


SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

NPI PROFİLLER

TS 910
DIN 1025

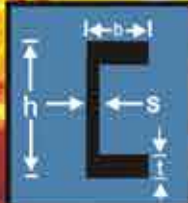
Kısa İşaret Short Mark	Ağırlık Weight kg/m	Boyutlar (mm)				Dimensions (mm)			
		h	b	s	t	h	b	s	t
I									
80	5.94	80	42	3.9	5.9				
100	8.34	100	50	4.5	6.8				
120	11.1	120	58	5.1	7.7				
140	14.3	140	66	5.7	8.6				
160	17.9	160	74	6.3	9.5				
180	21.9	180	82	6.9	10.4				
200	26.2	200	90	7.5	11.3				
220	31.1	220	98	8.1	12.2				
240	36.2	240	106	8.7	13.1				
260	41.9	260	113	9.4	14.1				
280	47.9	280	119	10.1	15.2				
300	54.2	300	125	10.8	16.2				
320	61.0	320	131	11.5	17.3				
340	68.0	340	137	12.2	18.3				
360	76.1	360	143	13.0	19.5				
380	84.0	380	149	13.7	20.5				
400	92.4	400	155	14.4	21.6				
425	104	425	163	15.3	23.0				
450	115	450	170	16.2	24.3				
475	128	475	178	17.1	25.6				
500	141	500	185	18.0	27.0				
550	166	550	200	19.0	30.0				
600	199	600	215	21.6	32.4				



NPU PROFİLLER

TS 912
DIN 1026

Kısa İşaret Short Mark	Ağırlık Weight kg/m	Boyutlar (mm)				Dimensions (mm)			
		h	b	s	t	h	b	s	t
U									
30	1.74	30	15	4	4.5				
30	4.27	30	33	5	7				
40	2.87	40	20	5	5.5				
40	4.87	40	35	5	7				
50	3.86	50	25	5	6				
50	5.59	50	38	5	7				
60	5.07	60	30	6	6				
65	7.09	65	42	5.5	7.5				
80	8.64	80	45	6	8				
100	10.6	100	50	6	8.5				
120	13.4	120	55	7	9				
140	16.0	140	60	7	10				
160	18.8	160	65	7.5	10.5				
180	22.0	180	70	8	11				
200	25.3	200	75	8.5	11.5				
220	29.4	220	80	9	12.5				
240	33.2	240	85	9.5	13				
260	37.9	260	90	10	14				
280	41.8	280	95	10	15				
300	46.2	300	100	10	16				
320	59.5	320	100	14	17				
350	60.6	350	100	14	16				
380	63.1	380	102	13.5	16				
400	71.8	400	110	14	18				



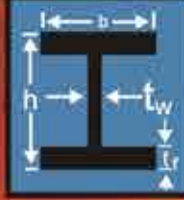


SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

H PROFİLLERİ

TS 910/1
DIN 1025

Kesit Designation HE	Ağırlık Weight kg/m	Boyutlar (mm)		Dimensions (mm)	
		h	b	t _w	t _f
100 A	16.7	96	100	5.0	8
100 B	20.4	100	100	6.0	10
120 A	19.9	114	120	5.0	8
120 B	26.7	120	120	6.5	11
140 A	24.7	133	140	5.5	8.5
140 B	33.7	140	140	7.0	12
160 A	30.4	152	160	6.0	9
160 B	42.6	160	160	8.0	13
180 A	35.5	171	180	6.0	9.5
180 B	51.2	180	180	8.5	14
200 A	42.3	190	200	6.5	10
200 B	61.3	200	200	9.0	15
220 A	50.5	210	220	7.0	11
220 B	71.5	220	220	9.5	16
240 A	60.3	230	240	7.5	12
240 B	83.2	240	240	10	17
260 A	68.2	250	260	7.5	12.5
260 B	93.0	260	260	10	17.5
280 A	76.4	270	280	8.0	13
280 B	103	280	280	10.5	18
300 A	88.3	290	300	8.5	14
300 B	117	300	300	11	19
320 A	97.6	310	300	9.0	15.5
320 B	127	320	300	11.5	20.5
340 A	105	330	300	9.5	16.5
340 B	134	340	300	12	21.5
360 A	112	350	300	10	17.5
360 B	142	360	300	12.5	22.5
400 A	125	390	300	11	19
400 B	155	400	300	13.5	24
450 A	140	440	300	11.5	21
450 B	171	450	300	14	26
500 A	155	490	300	12	23
500 B	187	500	300	14.5	28
550 A	166	540	300	12.5	24
550 B	199	550	300	15	29
600 A	178	590	300	13	25
600 B	212	600	300	15.5	30



IPE PROFİLLERİ

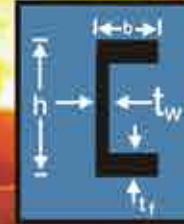
TS 910/1
DIN 1025

Kesit Designation IPE	Ağırlık Weight kg/m	Boyutlar (mm)		Dimensions (mm)	
		h	b	t _w	t _f
100	8.1	100	55	4.1	5.7
120	10.4	120	64	4.4	6.3
140	12.9	140	73	4.7	6.9
160	15.8	160	82	5	7.4
180	18.8	180	91	5.3	8
200	22.4	200	100	5.6	8.5
220	26.2	220	110	5.9	9.2
240	30.7	240	120	6.2	9.8
270	36.1	270	135	6.6	10.2
300	42.2	300	150	7.1	10.7
330	49.1	330	160	7.5	11.5
360	57.1	360	170	8	12.7
400	66.3	400	180	8.6	13.5
450	77.6	450	190	9.4	14.6
500	90.7	500	200	10.2	16
550	106	550	210	11.1	17.2
600	122	600	220	12	19
750x147	173	753	265	13.2	17

UPE PROFİLLERİ

TS 910/1
DIN 1026

Kesit Designation UPE	Ağırlık Weight kg/m	Boyutlar (mm)		Dimensions (mm)	
		h	b	t _w	t _f
80	7.9	80	50	4.0	7.0
100	9.8	100	55	4.5	7.5
120	12.1	120	60	5.0	8.0
140	14.5	140	65	5.0	9.0
160	17.0	160	70	5.5	9.5
180	19.7	180	75	5.5	10.5
200	22.8	200	80	6.0	11.0
220	26.6	220	85	6.5	12.0
240	30.2	240	90	7.0	12.5
270	35.2	270	95	7.5	13.5
300	44.4	300	100	9.5	15.0
330	53.2	330	105	11.0	16.0
360	61.2	360	110	12.0	17.0
400	72.2	400	115	13.5	18.0



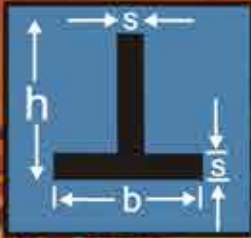


SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

T DEMİRLERİ

TS 911
DIN 1024

Kısa İşaret Short mark	Boyutlar Dimensions (mm)			Ağırlık Weight
	T	h	b	s
20	20	20	3	0.87
25	25	25	3.5	1.27
25	25	25	4.5	1.61
30	30	30	4	1.76
30	30	30	5	2.16
35	35	35	4.5	2.31
35	35	35	5.5	2.78
40	40	40	5	2.94
40	40	40	6	3.49
45	42	42	6.5	4.26
50	50	50	6	4.44
50	50	50	7	5.11
60	60	60	8	7.03
70	70	70	9	9.26
80	80	80	10	11.8
90	90	90	10	13.4
100	100	100	11	16.4
120	120	120	13	23.2
140	140	140	15	31.3



KARE DEMİRLERİ

TS 1378
DIN 1014

Ebat / Size axa mmxmm	Ağırlık Weight kg/m
8x8	0.50
10x10	0.79
12x12	1.13
14x14	1.54
16x16	2.00
18x18	2.54
20x20	3.14
22x22	3.80
25x25	4.91
30x30	7.07
35x35	9.62
40x40	12.6
45x45	15.9
50x50	19.6
55x55	23.8
60x60	28.3
65x65	33.2
70x70	38.5
75x75	44.2
80x80	50.2
85x85	56.7
90x90	63.6
100x100	78.5
110x110	95.0
120x120	113.0
130x130	132.7
140x140	153.9
150x150	176.6
160x160	201.0
170x170	226.9
180x180	254.3
190x190	283.4
200x200	314.0
250x250	490.6





SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

SACLAR

Kalınlık Thickness mm	Ebat (mm)		Size (mm)
	1000x2000	1200x2400	1500x6000
	Ağırlık (kg)	Weight (kg)	
0.40	6.28		
0.45	7.07		
0.50	7.85		
0.60	9.42		
0.70	10.99	15.83	
0.75	11.78	16.96	
0.80	12.56	18.09	
0.90	14.13	20.35	
1.00	15.70	22.61	
1.20	18.84	27.13	
1.25	19.63	28.26	
1.50	23.55	33.91	
2.00	31.40	45.22	
2.25	35.33	50.87	
2.50	39.25	56.52	
2.75	43.18	62.17	
3.00	47.10	67.82	211.95
3.50	54.95	79.13	247.28
4.00	62.80	90.43	282.60
4.50	70.65	101.74	317.93
5.00	78.50	113.04	353.25
6.00	94.20	135.65	423.90
7.00	109.90	158.26	494.55

Kalınlık Thickness mm	Ebat (mm)		Size (mm)
	1000x2000	1500x6000	2000x8000
	Ağırlık (kg)	Weight (kg)	
8.00	125.6	565.2	
9.00		635.85	1130.4
10.0		706.5	1256
11.0		777.15	1381.6
12.0		847.8	1507.2
13.0		918.45	1632.8
14.0		989.1	1758.4
15.0		1059.75	1884
16.0		1130.4	2009.6
17.0		1201.05	2135.2
18.0		1271.7	2260.8
19.0		1342.35	2386.4
20.0		1413	2512
22.0		1554.3	2763.2
25.0		1766.25	3140
28.0		1978.2	3515.8
30.0		2119.5	3768
32.0		2260.8	4019.2
35.0		2472.75	4396
40.0		2826	5024
50.0		3532.5	6280
60.0		4239	7536
80.0		5652	10048

Kalınlık (mm)	0.4	0.45	0.5	0.6	0.7	0.75	0.8	0.9	1
kg/m ²	3.14	3.53	3.93	4.71	5.50	5.89	6.28	7.07	7.85
Kalınlık (mm)	1.2	1.25	1.5	2	2.5	3	3.5	4	4.5
kg/m ²	9.42	9.81	11.78	15.70	19.63	23.55	27.48	31.40	35.33
Kalınlık (mm)	5	6	7	8	9	10	11	12	13
kg/m ²	39.25	47.1	54.95	62.8	70.65	78.5	86.35	94.2	102.05
Kalınlık (mm)	14	15	16	18	20	24	25	30	35
kg/m ²	109.9	117.75	125.6	141.3	157	188.4	196.25	235.5	274.75
Kalınlık (mm)	40	45	50	60	65	70	80	90	100
kg/m ²	314	353.25	392.5	471	510.25	549.5	628	706.5	785

BAKLAVALI SACLAR

Ebat (mm)	Kalınlık (mm)							
	2 / 3	3 / 4	4 / 5	5 / 6	5.5 / 7	6.5 / 8	7.5 / 9	8.5 / 10
1000 x 2000	41.2 kg	55 kg	68.7 kg	82.5 kg	96.2 kg	110 kg	123.7 kg	137.5 kg
1200 x 2400	59.3 kg	79.2 kg	98.9 kg	118.8 kg	138.5 kg	158.4 kg	178.1 kg	198 kg



SERTDEMİR
ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

SANAYİ BORULARI

TS 6476
DIN 2394-2458

DIŞ ÇAP Outside Diameter (mm)	Et kalınlığı (mm)																Wall Thickness (mm)			
	0.6	0.7	0.8	0.9	1	1.2	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	8	
	Birim Ağırlık (kg/m)																Unit Weight (kg/m)			
10	0.11	0.15	0.18	0.20	0.22	0.26	0.31													
13	0.18	0.21	0.24	0.27	0.30	0.35	0.42													
16	0.23	0.26	0.30	0.34	0.37	0.44	0.54													
17	0.24	0.28	0.32	0.36	0.40	0.47	0.57	0.74												
18	0.26	0.30	0.34	0.38	0.42	0.50	0.61	0.79	0.96											
19	0.27	0.32	0.36	0.40	0.44	0.53	0.65	0.84	1.02											
20	0.29	0.33	0.38	0.42	0.47	0.56	0.68	0.89	1.08											
21	0.30	0.35	0.40	0.45	0.49	0.59	0.72	0.94	1.14											
22	0.32	0.37	0.42	0.47	0.52	0.62	0.76	0.99	1.20											
25	0.36	0.42	0.48	0.53	0.59	0.70	0.87	1.13	1.39											
27	0.39	0.45	0.52	0.58	0.64	0.76	0.94	1.23	1.51	1.77										
28	0.40	0.47	0.54	0.60	0.67	0.79	0.98	1.28	1.57	1.84										
30		0.51	0.58	0.65	0.72	0.85	1.05	1.38	1.70	2.00										
32		0.54	0.62	0.69	0.77	0.91	1.13	1.48	1.82	2.15										
35		0.59	0.68	0.76	0.84	1.00	1.24	1.63	2.00	2.37										
38			0.73	0.82	0.91	1.09	1.35	1.78	2.19	2.59										
40			0.77	0.87	0.96	1.15	1.42	1.87	2.31	2.74	3.15	3.55								
42			0.81	0.91	1.01	1.21	1.50	1.97	2.44	2.89	3.32	3.75								
45			0.87	0.98	1.09	1.30	1.61	2.12	2.62	3.11	3.58	4.04								
48				1.05	1.16	1.38	1.73	2.27	2.81	3.33	3.84	4.34								
50				1.09	1.20	1.44	1.79	2.37	2.93	3.48	4.01	4.54								
51				1.11	1.23	1.47	1.83	2.42	2.99	3.55	4.10	4.64								
57					1.38	1.65	2.05	2.71	3.36	4.00	4.62	5.23	5.83							
60					1.45	1.74	2.16	2.86	3.55	4.22	4.88	5.52	6.16	6.78	7.39					
63					1.53	1.83	2.28	3.01	3.72	4.44	5.14	5.82	6.49	7.14	7.79					
70						2.03	2.53	3.35	4.16	4.96	5.74	6.51	7.27	8.01	8.75					
72						2.09	2.60	3.45	4.28	5.10	5.91	6.71	7.51	8.25	9.02					
76						2.21	2.75	3.65	4.53	5.40	6.26	7.10	7.93	8.75	9.56					
80							2.90	3.85	4.78	5.70	6.60	7.50	8.38	9.25	10.10					
83							3.01	3.99	4.96	5.92	6.86	7.79	8.74	9.61	10.51					
89							3.24	4.29	5.33	6.36	7.38	8.38	9.38	10.36	11.50					
96							3.49	4.64	5.76	6.88	7.98	9.07	10.15	11.22	12.27					
100							3.64	4.83	6.01	7.18	8.33	9.47	10.60	11.70	12.80	13.90				
108							3.94	5.22	6.50	7.76	9.01	10.25	11.50	12.70	13.90	15.10				
114								5.52	6.87	8.21	9.54	10.84	12.20	13.43	14.70	16.00	17.20	18.50		
120								5.82	7.24	8.66	10.10	11.40	12.80	14.20	15.50	16.90	18.20	19.50		
127								6.16	7.68	9.17	10.6	12.10	13.60	15.00	16.48	17.90	19.31	20.71		
133								6.46	8.05	9.62	11.2	12.70	14.30	15.80	17.30	18.90	20.30	21.80		
140								6.76	8.42	10.10	11.75	13.40	15.00	16.60	18.15	19.80	21.24	22.79		
159								7.74	9.65	11.50	13.40	15.30	17.20	19.00	20.80	22.60	24.50	26.20		
168									10.20	12.21	14.20	16.18	18.14	20.09	22.04	23.97	25.89	27.79		
193.7												18.70	20.99	23.30	25.52	27.80	30.00	32.23	36.60	
219												21.20	23.80	26.40	28.95	31.50	34.06	36.60	41.60	
244.5														26.40	32.41	35.30	38.15	41.00	46.70	
273														33.00	36.28	39.50	42.72	45.90	52.30	
324														39.30	43.20	47.05	50.89	54.72	62.34	

**SERTDEMİR**

ENDÜSTRİ ÜRÜNLERİ DEMİR ÇELİK ve SAN. TUR. LTD. ŞTİ.

SU VE GAZ BORULARI**Orta Seri****Medium Series****TS 301/3
DIN 2440**

Anma Çapı Nominal Diameters		Dış Çap Outside Diameters	Et Kalınlığı Wall thickness	Siyah Dişli Manşonlu Black threaded and coupled kg/m	Galvanizli Manşonlu Galvanised threaded and coupled kg/m	Siyah düz uçlu Black plain end kg/m	Galvanizli düz uçlu Galvanised plain end kg/m
inc.	mm	mm	mm				
3/8	10	17.2	2.35	0.86	0.89	0.85	0.89
1/2	15	21.3	2.65	1.23	1.29	1.22	1.27
3/4	20	26.9	2.65	1.59	1.66	1.58	1.65
1	25	33.7	3.25	2.46	2.57	2.44	2.55
1 1/4	32	42.4	3.25	3.17	3.31	3.14	3.28
1 1/2	40	48.3	3.25	3.65	3.81	3.61	3.77
2	50	60.3	3.65	5.17	5.40	5.10	5.33
2 1/2	65	76.1	3.65	6.63	6.93	6.51	6.80
3	80	88.9	4.05	8.64	9.03	8.47	8.85
4	100	114.3	4.50	12.4	13.0	12.1	12.6
5	125	139.7	4.85	16.7	17.5	16.2	16.9
6	150	165.1	4.85	19.8	20.7	19.2	20.1

Ağır Seri**Heavy Series****TS 301/4
DIN 2441**

Anma Çapı Nominal Diameters		Dış Çap Outside Diameters	Et Kalınlığı Wall thickness	Siyah Dişli Manşonlu Black threaded and coupled kg/m	Galvanizli Manşonlu Galvanised threaded and coupled kg/m	Siyah düz uçlu Black plain end kg/m	Galvanizli düz uçlu Galvanised plain end kg/m
inc.	mm	mm	mm				
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	10.7	10.1	10.6
4	100	114.3	5.40	14.7	15.3	14.4	15.0
5	125	139.7	5.40	18.3	18.7	17.8	18.6
6	150	165.1	5.40	21.8	22.3	21.2	22.2

SATIŞI YAPILAN ÜRÜNLER

İMALAT GENEL YAPI-KİTLE ÇELİKLERİNDE DIN: 17100 GRUBUNDA

ST 37-2/ST 37-3/ST 42-2/ST 44-2/ST 50-2/ST 52-3/ST 60-2/ST 70-2
Ç.1010/Ç.1015/Ç.1020/Ç.1025/Ç.1030/Ç.1040/Ç.1050/CK 35/CK 40/CK 45/CK 50/CK 60
Q 12 MM İLE Q 1200 MM ÇAPLARINDA-KUTURUNDA YERLİ VE İTHAL OLARAK
SOĞUK ÇEKİLMİŞ YUVARLAK İMALAT ÇELİKLERİ, SICAK HADDELENMİŞ YUVARLAK İMALAT ÇELİKLERİ,
KABUK SOYULMUŞ YUVARLAK İMALAT ÇELİKLERİ, TAŞLANMIŞ YUVARLAK İMALAT ÇELİKLERİ,
KUMLANMIŞ YUVARLAK İMALAT ÇELİKLERİ.
8X7 MM İLE 400X40 MM EBATLARI ARASINDA SOĞUK ÇEKİLMİŞ LAMALAR
20X5 MM İLE 200X80 MM EBATLARI ARASINDA SICAK ÇEKİLMİŞ LAMALAR
205X20 MM İLE 1500X300 MM EBATLARI ARASINDA PLATİNALAR-LATALAR
6X6 MM İLE 70X70 MM EBATLARI ARASINDA SOĞUK ÇEKİLMİŞ KARELER
6X6 MM İLE 400X400 MM EBATLARI ARASINDA SICAK ÇEKİLMİŞ KARELER
LAMA VE KARELERDE İSTENİLEN KALİTE VE EBATLARDAN ÖZEL ÜRETİM YAPTIRILMAKTADIR
3 MM İLE 205 MM ARASINDA SOĞUK/SICAK ÇEKİLMİŞ ALTİKÖŞELER

ISLAH ÇELİKLERİ GRUBUNDA DIN: 17200

34 CR 4/37 CR 4/41 CR 4/52 CRMO 4/34 CR MO 4/, 42 CRMO 4/50 CRMO 4/36 CR NI MO 8/
34 CRNIM06/50CRV4/Ç.5130/Ç.5140/Ç.4125/Ç.4137/Ç.4140/Ç.4340/Ç.4150/Ç.6150/
Q 14 MM İLE Q 1200 MM ÇAPLARINDA-KUTURUNDA,
SICAK HADDELENMİŞ YUVARLAK ISLAH ÇELİKLERİ, KABUK SOYULMUŞ YUVARLAK ISLAH ÇELİKLERİ,
SICAK ÇEKİLMİŞ KARE ISLAH ÇELİKLERİ, SICAK ÇEKİLMİŞ LAMA ISLAH ÇELİKLERİ.

SEMENTASYON ÇELİKLERİ GRUBUNDA DIN: 17210

15 CR 3/16 MN CR 5/13 NI CR 4/15 CR NI 6/18 CR NI 8/21 NI CRM02/, Ç.5015/Ç.5115/Ç.5120/Ç.3115/Ç.3316/Ç.3115/Ç.3220/Ç.8620/
Q 14 MM İLE Q 1100 MM ÇAPLARINDA-KUTURUNDA, SICAK HADDELENMİŞ YUVARLAK SEMENTASYON ÇELİKLERİ, KABUK
SOYULMUŞ YUVARLAK SEMENTASYON ÇELİKLERİ, SICAK ÇEKİLMİŞ KARE SEMENTASYON ÇELİKLERİ,
SICAK ÇEKİLMİŞ LAMA SEMENTASYON ÇELİKLERİ.

ASİL ÇELİK MAMÜLLERİ

CARBON-YAYLIK-OTOMAT-ISLAH-SEMENTASYON-RULMAN-SICAK SOĞUK TAKIM ÇELİKLERİ
Q 22 MM İLE 220 MM ARASINDA YUVARLAK ÇELİKLER, SAE 1020-1030-1040-1050-C 35 C 45 CK 45 VAKUMSUZ ÇELİKLER
DEĞİŞİK EBATLARDAN KARELER VE LAMALAR, EREĞLİ D.Ç.-CEMTAŞ VE M.K.E. ÜRÜNLERİ
PASLANMAZ ÇELİKLER, SU GAZ KAZAN VE SANAYİ BORULARI, KARE VE DİKDÖRTGEN PROFİLLER İPE-HEA-VE HEB PROFİLLERİ
SİYAH, DKP, LEVHA, ALÜMİNYUM, GALVANİZLİ, BAKLAVALI VE PASLANMAZ SAÇLAR
KÖŞEBENT-NPU-NPI-T DEMİRLER-NERVÜRLÜ BETON ÇELİK ÇUBUKLAR-ÇELİK HASIRLAR
TOPTAN PERAKENDE KESİMLİ VE BÜKÜMLÜ SATIŞLAR YAPILMAKTADIR.



SERTDEMİR

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