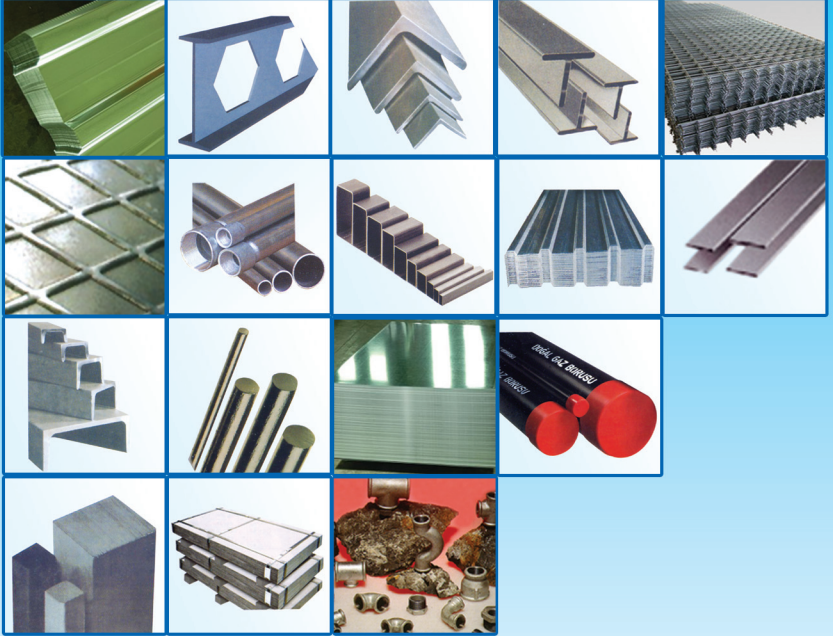


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# MALZEME - AĞIRLIK KATALOĞU



DEMİR PROFİL SAN. VE TİC. LTD. ŞTİ.

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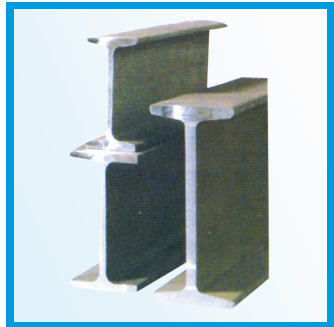
## NPU DEMİR



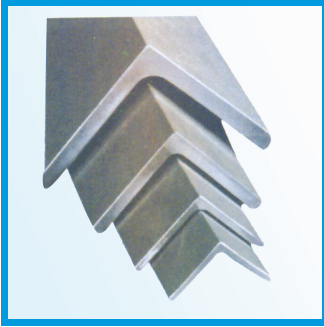
NPU / DEMİR	kg / mt.
40 x 20 x 5,00	2,87
50 x 25 x 5,00	3,86
65 x 42 x 5,00	7,09
80 x 45 x 6,00	8,65
100 x 50 x 6,00	10,60
120 x 55 x 7,00	13,30
140 x 60 x 7,00	16,00
160 x 65 x 7,50	18,90
180 x 70 x 8,00	22,00
200 x 75 x 8,50	25,30
220 x 80 x 9,00	29,40
240 x 85 x 9,50	33,20
260 x 90 x 10,00	37,90
280 x 95 x 10,00	41,90
300 x 100 x 10,00	46,10
320 x 100 x 14,00	59,50
350 x 100 x 14,00	60,60
380 x 102 x 13,30	62,60

NPI / DEMİR	kg / mt.
80 x 42 x 3,90	5,94
100 x 50 x 4,50	8,34
120 x 58 x 5,10	11,10
140 x 66 x 5,70	14,30
160 x 74 x 6,30	17,90
180 x 82 x 6,90	21,90
200 x 90 x 7,50	26,20
220 x 98 x 8,10	31,10
240 x 106 x 8,70	36,20
260 x 113 x 9,40	41,90
280 x 119 x 10,10	47,90
300 x 125 x 10,80	54,20
320 x 131 x 11,50	61,00
340 x 137 x 12,20	68,14
360 x 143 x 13,00	76,20
380 x 149 x 13,70	84,00
400 x 155 x 14,40	92,50

## NPI DEMİR



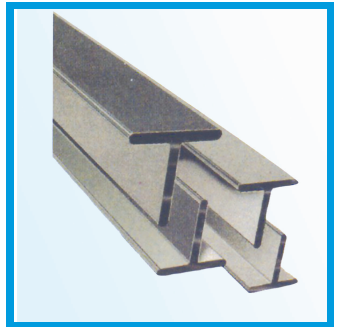
## KÖŞEBENTLER



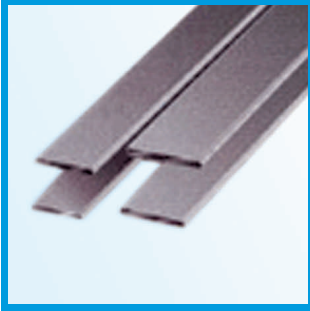
KÖŞEBENTLER	kg / mt.
25 x 25 x 3 mm	1,120
30 x 30 x 3 mm	1,360
40 x 40 x 4 mm	2,420
50 x 50 x 5 mm	3,770
60 x 60 x 6 mm	5,420
70 x 70 x 7 mm	7,380
80 x 80 x 8 mm	9,660
100 x 100 x 10 mm	15,100
120 x 120 x 12 mm	21,600
140 x 140 x 14 mm	31,400
150 x 150 x 15 mm	33,750
200 x 200 x 20 mm	59,900

## T - DEMİRLERİ

T DEMİR	kg / mt.
25 x 25 x 3 mm	1,290
30 x 30 x 3 mm	1,340
35 x 35 x 4 mm	2,000
40 x 40 x 4 mm	2,380
50 x 50 x 4 mm	3,720



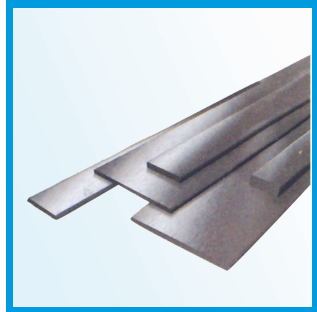
## LAMALAR



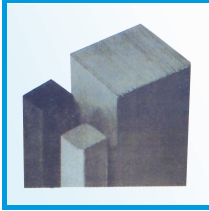
Lamalar	kg / mt.	Lamalar	kg / mt.
20 x 10	1,570	60 x 12	5,650
25 x 10	1,960	60 x 16	7,100
30 x 10	2,360	60 x 20	9,420
35 x 10	2,750	60 x 25	11,780
40 x 8	2,510	60 x 30	14,130
40 x 10	3,140	70 x 10	5,500
40 x 12	3,770	70 x 20	11,000
40 x 15	4,710	80 x 10	6,280
40 x 20	6,280	80 x 20	12,560
40 x 25	7,850	80 x 25	15,700
50 x 8	3,130	80 x 30	18,840
50 x 10	3,930	90 x 10	7,065
50 x 12	4,710	100 x 10	7,850
50 x 16	6,280	100 x 15	11,770
50 x 20	7,850	100 x 20	15,700
50 x 25	9,800	100 x 25	19,620
50 x 30	11,790	100 x 30	23,550
60 x 10	4,710	120 x 10	9,420

## SİLME DEMİRLER

SİLMELER	kg / mt.
16 x 3	0,376
20 x 3	0,470
25 x 3	0,588
30 x 3	0,700
20 x 5	0,784
25 x 5	0,980
30 x 5	1,375
40 x 5	1,570
50 x 5	1,960
60 x 5	2,356



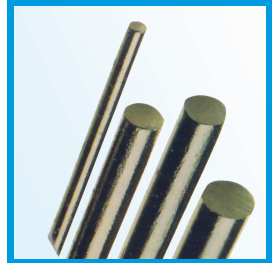
## KARE DEMİRLER



## DÜZ YUVARLAK DEMİRLER

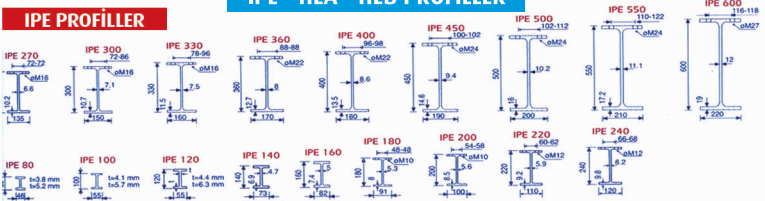
Ebat mm.	Kg / mt.	Ebat mm.	Kg / mt.
1,00	0,006	24,00	3,551
1,50	0,014	25,00	3,853
2,00	0,025	26,00	4,168
2,50	0,039	27,00	4,495
3,00	0,055	28,00	4,834
3,50	0,076	29,00	5,185
4,00	0,099	30,00	5,549
4,50	0,125	32,00	6,313
5,00	0,154	34,00	7,127
6,00	0,222	36,00	7,990
7,00	0,302	38,00	8,903
8,00	0,395	40,00	9,865
9,00	0,499	45,00	12,485
10,00	0,617	50,00	15,412
11,00	0,746	55,00	18,650
12,00	0,888	60,00	22,195
13,00	1,042	65,00	26,050
14,00	1,208	70,00	30,210
15,00	1,387	75,00	34,680
16,00	1,578	80,00	39,458
17,00	1,782	100,00	61,700
18,00	1,998	110,00	74,600
19,00	2,226	120,00	88,800
20,00	2,466	130,00	104,200
21,00	2,719	140,00	120,800
22,00	2,984	150,00	138,700
23,00	3,261		

Kareler	kg / mt.
10 x 10	0,785
12 x 12	1,130
14 x 14	1,539
16 x 16	2,010
18 x 18	2,543
20 x 20	3,140
25 x 25	4,906
30 x 30	7,065
40 x 40	12,560
50 x 50	19,625
60 x 60	28,260
70 x 70	38,460
75 x 75	44,160
80 x 80	50,240
90 x 90	63,580
100 x 100	78,500

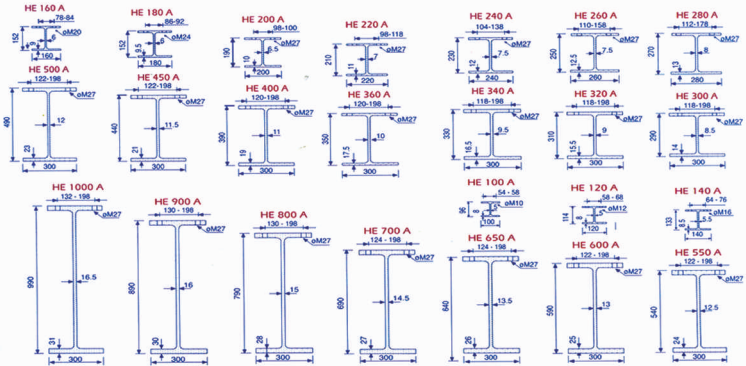


## IPE - HEA - HEB PROFİLLER

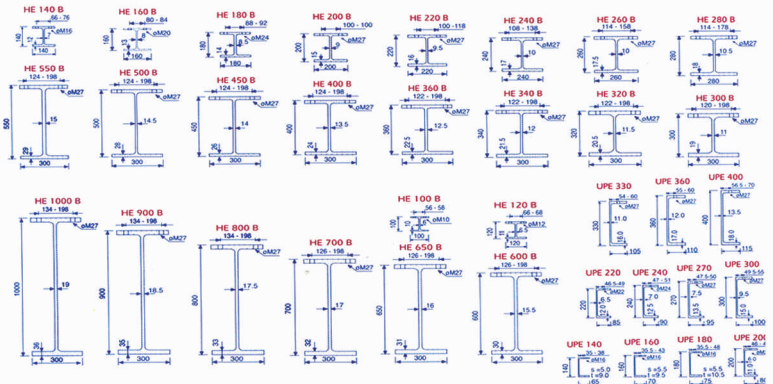
### IPE PROFİLLER



### HEA PROFİLLER



### HEB PROFİLLER

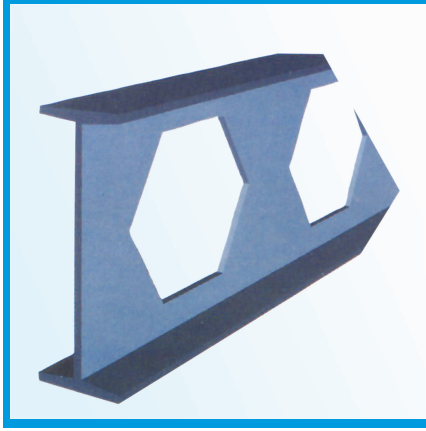


**HEA - HEB - IPE PROFİLLER**

Kesit	Boyut mm	G-Birim Ağırlık kg/m	h: Yükseklik mm	b: Genişlik mm	tw: Gövde kalınlığı mm	tf: Flaş kalınlığı mm	r: İç köşe yarıçapı mm	1 Çubuk A. kg/±12,1 m	1 Ton için Top.Boy m/ton
HEA	100	16.7	96	100	5.0	8.0	12	202	62
HEA	120	19.9	114	120	5.0	8.0	12	241	50
HEA	140	24.7	133	140	5.5	8.5	12	299	40
HEA	160	30.4	152	160	6.0	9.0	15	368	33
HEA	180	35.5	171	180	6.0	9.5	15	430	28
HEA	200	42.3	190	200	6.5	10.0	18	512	24
HEA	220	50.5	210	220	7.0	11.0	18	611	20
HEA	240	60.3	230	240	7.5	12.0	21	730	17
HEA	260	68.2	250	260	7.5	12.5	24	825	15
HEA	280	76.4	270	280	8.0	13.0	24	924	13
HEA	300	88.3	290	300	8.5	14.0	27	1068	11
HEA	320	97.6	310	300	9.0	15.5	27	1181	10
HEA	340	105.0	330	300	9.5	16.5	27	1271	10
HEA	360	112.0	350	300	10.0	17.5	27	1355	9
HEA	400	125.0	390	300	11.0	19.0	27	1513	8
HEA	450	140.0	440	300	11.5	21.0	27	1694	7
HEA	500	155.0	490	300	12.0	23.0	27	1876	6
HEA	550	166.0	540	300	12.5	24.0	27	2009	6
HEA	600	178.0	590	300	13.0	25.0	27	2154	6
HEB	100	20.4	100	100	6.0	10.0	12	247	49
HEB	120	26.7	120	120	6.5	11.0	12	323	37
HEB	140	33.7	140	140	7.0	12.0	12	408	30
HEB	160	42.6	160	160	8.0	13.0	15	515	23
HEB	180	51.2	180	180	8.5	14.0	15	620	20
HEB	200	61.3	200	200	9.0	15.0	18	742	16
HEB	220	71.5	220	220	9.5	16.0	18	865	14
HEB	240	83.2	240	240	10.0	17.0	21	1007	12
HEB	260	93.0	260	260	10.0	17.5	24	1125	11
HEB	280	103.0	280	280	10.5	18.0	24	1246	10
HEB	300	117.0	300	300	11.0	19.0	27	1416	9
HEB	320	127.0	320	300	11.5	20.5	27	1537	8
HEB	340	134.0	340	300	12.0	21.5	27	1621	7
HEB	360	142.0	360	300	12.5	22.5	27	1718	7
HEB	400	155.0	400	300	13.5	24.0	27	1876	6
HEB	450	171.0	450	300	14.0	26.0	27	2069	6
HEB	500	187.0	500	300	14.5	28.0	27	2263	5
HEB	550	199.0	550	300	15.0	29.0	27	2408	5
HEB	600	212.0	600	300	15.5	30.0	27	2565	5
IPE	100	8.1	100	55	4.1	5.7	7	98	123
IPE	120	10.4	120	64	4.4	6.3	7	126	96
IPE	140	12.9	140	73	4.7	6.9	7	156	78
IPE	160	15.8	160	82	5.0	7.4	9	191	63
IPE	180	18.8	180	91	5.3	8.0	9	227	53
IPE	200	22.4	200	100	5.6	8.5	12	271	45
IPE	220	26.2	220	110	5.9	9.2	12	317	38
IPE	240	30.7	240	120	6.2	9.8	15	371	33
IPE	270	36.1	270	135	6.6	10.2	15	437	28
IPE	300	42.2	300	150	7.1	10.7	15	511	24
IPE	330	49.1	330	160	7.5	11.5	18	594	20
IPE	360	57.1	360	170	8.0	12.7	18	691	18
IPE	400	66.3	400	180	8.6	13.5	21	802	15
IPE	450	77.6	450	190	9.4	14.6	21	939	13
IPE	500	90.7	500	200	10.2	16.0	21	1097	11
IPE	550	106.0	550	210	11.1	17.2	24	1283	9
IPE	600	122.0	600	220	12.0	19.0	24	1476	8



## PETEK KİRİŞLER



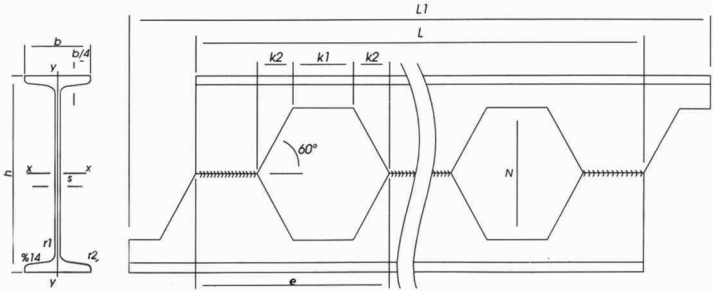
### BAŞLICA KULLANIM ALANLARI:

Çatı Kirişleri, Kat Kirişleri, Kolonlar, Otoparklar, Prefabrik Yapılar, Fabrika Binaları, Üst Geçitler, Hangarlar vb. Çelik Konstrüksiyon Uygulamaları...

### AVANTAJLARI:

- Oluşan ve istenen mimarinin en az malzeme ile yapımını sağlar.
- Kiriş gözenekleri tesisatın daha kolay döşenmesine olanak vererek, yapı yüksekliğinden tasarruf sağlar.
- Yapıya esneklik ve estetik katar.
- Yapının bitim süresini kısaltarak zaman tasarrufu sağlar.
- Yapıdaki mal, can ve iş güvenliğini arttırarak aydınlık, ferah iç mekanlar oluşturur.
- Taşıma kabiliyeti sayesinde yapıya % 40'a varan ağırlık tasarruf sağlar.
- Yapılıının maliyetini düşürerek, minimum maliyetle geniş ve açık alanlar oluşturur.
- Eksenal yüklerin hafif olduğu durumlarda çok etkilidir.  
(Kalkan duvar direkleri, rüzgar direkleri gibi.)



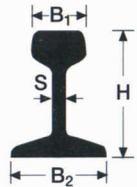
**TEKNİK BİLGİLER:**


Malzeme: ST - 37.2 (DIN 1025/1)

Standart NPI	Petek Kiriş	GEOMETRİK ÖLÇÜLER											Eğilme Eksenli x-x			Alan F cm <sup>2</sup>	Ağırlık kg/m(G)						
		h mm	tolerans mm	b mm	tolerans mm	t mm	rt=rs mm	tolerans mm	r2 mm	r3 mm	L mm	tolerans mm	l1 mm	tolerans mm	Petek								
80	120	120		42		5.9	3.9		2.3	5	5938 11938		6061 12061		80	123.2	38.5	23.1	185	31	7.57	5.94	
100	140	140		50		6.8	4.5		2.7	5	5938 11938		6061 12061		80	123.2	38.5	23.1	358	51.2	10.6	8.34	
120	180	180		58		7.7	5.1		3.1	7	5906 11906		6094 12094		120	188.5	59.6	34.6	776	86.3	14.2	11.1	
140	200	200		66		8.6	5.7		3.4	7	5906 11906		6094 12094		120	188.5	59.6	34.6	1248	124	18.2	14.3	
160	245	245	±2	74	±2	9.5	6.3	±0.5	3.8	10	5873 11873		6127 12127	±50	170	255	85	42.5	2307	187	22.8	17.9	
180	265	265		82		10.4	6.9		4.1	10	5873 11873	0	6127 12127	0	170	255	85	42.5	3305	250	27.9	21.9	
200	305	305		90		11.3	7.5		4.5	12	5845 11845		6155 12155		210	310	100	55	5024	335	33.4	26.2	
220	325	325		98		12.2	8.1		4.9	12	5845 11845		6155 12155		210	310	100	55	6879	430	39.5	31.1	

**RAY DEMİRLERİ**

	H mm	B1: mm	B2: mm	S mm	kg/m
S 10	75	35	56	10	11.00
S 12	80	34	65	7	12.00
S 14	80	38	70	9	14.00
S 18	93	43	82	10	18.30
S 20	100	44	82	10	20.00
S 24	115	53	90	10	24.43
S 33	134	58	105	11	33.47
S 41	138	67	125	12	40.95
S 49	149	67	125	14	49.43
S 54	154	67	125	16	54.54
S 64	172	74	150	16	64.92



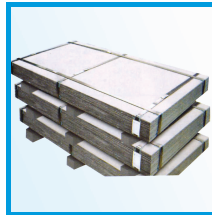
## SİYAH SAÇLAR



Siyaş Saçlar	Kg	Siyaş Saçlar	Kg
1,50. mm. 1000x2000	23,550	4,00. mm. 1250x2500	98,125
1,50. mm. 1200x2400	33,912	5,00. mm. 1000x2000	78,500
1,50. mm. 1250x2500	36,796	5,00. mm. 1200x2400	113,040
2,00. mm. 1000x2000	31,400	5,00. mm. 1250x2500	122,657
2,00. mm. 1200x2400	45,216	6,00. mm. 1000x2000	94,200
2,00. mm. 1250x2500	49,063	6,00. mm. 1200x2400	135,650
2,50. mm. 1000x2000	39,250	6,00. mm. 1250x2500	147,188
2,50. mm. 1200x2400	56,520	8,00. mm. 1000x2000	125,600
2,50. mm. 1250x2500	61,330	8,00. mm. 1200x2400	180,864
3,00. mm. 1000x2000	47,100	8,00. mm. 1250x2500	196,250
3,00. mm. 1200x2400	67,830	10,00. mm. 1000x2000	157,000
3,00. mm. 1250x2500	73,594	10,00. mm. 1200x2400	226,080
4,00. mm. 1000x2000	62,800	10,00. mm. 1250x2500	245,313
4,00. mm. 1200x2400	90,432		

Levha Saçlar	Kg
3,00.mm.1500 x 6000	212,00
4,00.mm.1500 x 6000	282,60
5,00.mm.1500 x 6000	353,25
6,00.mm.1500 x 6000	423,90
7,00.mm.1500 x 6000	494,55
8,00. mm.1500 x 6000	565,20
9,00.mm.1500 x 6000	635,85
10,00.mm.1500 x 6000	706,50
11,00.mm.1500 x 6000	777,15
12,00.mm.1500 x 6000	847,80
13,00.mm.1500 x 6000	918,45
14,00.mm.1500 x 6000	989,10
15,00.mm.1500 x 6000	1059,75
16,00.mm.1500 x 6000	1130,04
18,00.mm.1500 x 6000	1271,70
20,00.mm.1500 x 6000	1413,00
22,00.mm.1500 x 6000	1554,30
24,00.mm.1500 x 6000	1695,60
25,00.mm.1500 x 6000	1766,25
26,00.mm.1500 x 6000	1836,90
28,00.mm.1500 x 6000	1978,20
30,00.mm.1500 x 6000	2119,50
35,00.mm. 1500 x 6000	2472,75
40,00.mm.1500 x 6000	2826,00
45,00.mm.1500 x 6000	3179,25
50,00.mm.1500 x 6000	3532,50
60,00.mm.1500 x 6000	4239,00

## LEVHA SAÇLAR



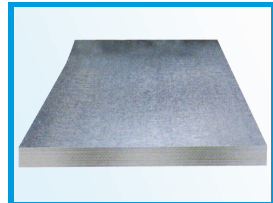
## DKP SAÇLAR



## GALVANİZLİ DÜZ SAÇLAR

Galvanizli Saçlar	Kg/m <sup>2</sup>
0,30 mm. 1000 x 1000	2,355
0,35 mm. 1000 x 1000	2,747
0,40 mm. 1000 x 1000	3,140
0,50 mm. 1000 x 1000	3,925
0,60 mm. 1000 x 1000	4,710
0,70 mm. 1000 x 1000	5,495
0,80 mm. 1000 x 1000	6,280
0,90 mm. 1000 x 1000	7,065
1,00 mm. 1000 x 1000	7,850
1,20 mm. 1000 x 1000	9,420
1,50 mm. 1000 x 1000	11,775
2,00 mm. 1000 x 1000	15,700
2,50 mm. 1000 x 1000	19,625
3,00 mm. 1000 x 1000	23,550
4,00 mm. 1000 x 1000	31,400

Dkp Saçlar	Kg
0,25 mm. 1000 x 2000	3,925
0,30 mm. 1000 x 2000	4,710
0,35 mm. 1000 x 2000	5,495
0,40 mm. 1000 x 2000	6,280
0,50 mm. 1000 x 2000	7,850
0,60 mm. 1000 x 2000	9,420
0,70 mm. 1000 x 2000	10,990
0,80 mm. 1000 x 2000	12,560
0,90 mm. 1000 x 2000	14,130
0,90 mm. 1200 x 2400	20,347
0,90 mm. 1250 x 2500	22,078
0,90 mm. 1500 x 3000	31,800
1,00 mm. 1000 x 2000	15,700
1,00 mm. 1200 x 2400	22,610
1,00 mm. 1250 x 2500	24,531
1,20 mm. 1000 x 2000	18,840
1,20 mm. 1200 x 2400	27,130
1,20 mm. 1250 x 2500	29,438
1,50 mm. 1000 x 2000	23,550
1,50 mm. 1200 x 2400	33,912
1,50 mm. 1250 x 2500	36,800
2,00 mm. 1000 x 2000	31,400
2,00 mm. 1200 x 2400	45,216
2,00 mm. 1250 x 2500	49,063



## BAKLAVALI SAÇ



Baklavali Saç	Kg/m <sup>2</sup>
2/3. mm. 1000 x 1000	19,625
3/4. mm. 1000 x 1000	27,475
4/5. mm. 1000 x 1000	35,325
5/6. mm. 1000 x 1000	43,175
6/7. mm. 1000 x 1000	51,025
7/8. mm. 1000 x 1000	58,875
8/9. mm. 1000 x 1000	66,725
9/10. mm. 1000 x 1000	74,575

## ÇETA SAÇ - BAKLAVALI SAÇ

Çeta Baklavali Saç	Kg/m <sup>2</sup>
2/3. mm. 1000 x 1000	17,663
3/4. mm. 1000 x 1000	25,513
4/5. mm. 1000 x 1000	33,363
5/6. mm. 1000 x 1000	41,213
6/7. mm. 1000 x 1000	49,063
7/8. mm. 1000 x 1000	56,913
8/9. mm. 1000 x 1000	64,763
9/10. mm. 1000 x 1000	72,613

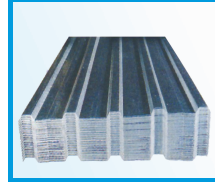


## TRAPEZ SAÇLAR

### Galvanizli Trapez Levha

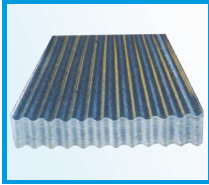
Galvanizli Trapez Levhaların Teknik Değerleri

- Levha Kalınlığı; min. 0.30 mm, max. 1.25 mm,
- Levha Uzunluğu; min. 1000 mm, max. 12000 mm,
- Levha faydalı alan genişliği; 795 mm,  
(Tolerans  $\pm$  10 mm)



GALVANİZLİ SAÇ KALINLIĞI (mm)	0,30	0,35	0,40	0,45	0,50	0,55	0,65	0,75	0,85	0,95	1,05	1,25
1 m. Boy Ağırlığı (kg/m)	2,38	2,53	2,93	3,34	3,75	4,15	4,98	5,77	6,56	7,35	8,14	9,78
Kullanım Alanı Ağırlığı (kg/m <sup>2</sup> )	2,99	3,18	3,69	4,20	4,72	5,22	6,26	7,26	8,25	9,25	10,24	12,30

## GALVANİZLİ OLUKLU SAÇ



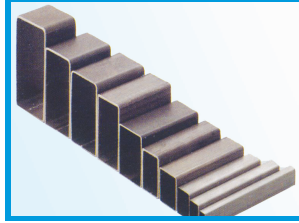
### Galvanizli Oluklu Levha

Galvanizli Oluklu Levhaların Teknik Değerleri

- Levha Kalınlığı; min. 0.30 mm, max. 1.25 mm,
- Levha Uzunluğu; min. 1000 mm, 0.30 mm-0.50 mm arası max. 3300 mm, 0.55 mm - 1.25 mm arası max. 4000 mm
- Levha faydalı alan genişliği; 815 mm,  
(Tolerans + 25 mm, - 15 mm'dir.)
- Çinko kaplama miktarı Türk ve dünya standartlarına uygun olarak yapılır.

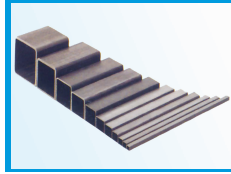
GALVANİZLİ SAÇ KALINLIĞI (mm)	0,30	0,35	0,40	0,45	0,50	0,55	0,65	0,75	0,85	0,95	1,05	1,25
1 m. Boy Ağırlığı (kg/m)	2,38	2,53	2,93	3,34	3,75	4,15	4,98	5,77	6,56	7,35	8,14	9,78
Kullanım Alanı Ağırlığı (kg/m <sup>2</sup> )	2,83	3,03	3,51	4,00	4,52	5,02	6,04	6,99	7,95	8,96	9,93	11,92
Atalet Momenti (J: cm <sup>4</sup> )	1,24	1,45	1,65	1,86	2,07	2,28	2,69	3,10	3,52	3,93	4,14	4,97
Mukavemet Momenti (W: cm <sup>3</sup> )	1,38	1,61	1,84	2,07	2,30	2,53	2,99	3,45	3,91	4,37	4,60	5,52

## DİKDÖRTGEN KUTU PROFİL <MT-KG> AĞIRLIK



EBAT	ET KALINLIĞI											
	0,8 mm	0,9 mm	1,00mm	1,2 mm	1,5 mm	2,00mm	2,5 mm	3,00mm	4,00mm	5,00mm	6,00mm	
10 x 20	0,356	0,399	0,420	0,520								
10 x 30	0,482	0,539	0,580	0,708	0,830							
15 x 25	0,482	0,539	0,580	0,708	0,830							
20 x 30	0,608	0,681	0,753	0,896	1,070	1,380						
20 x 40	0,733	0,822	0,890	1,085	1,300	1,680						
25 x 40			0,970	1,180	1,420	1,850						
30 x 40			1,050	1,273	1,540	2,010						
30 x 50			1,210	1,462	1,780	2,310	2,820	3,300	4,200			
40 x 60				1,810	2,250	2,930	3,600	4,250	5,450	6,560		
40 x 80						3,560	4,390	5,190	6,710	8,130		
40 x 100						4,190	5,170	6,130	7,970	9,700		
50 x 70						3,560	4,390	5,190	6,710	8,130		
50 x 90						4,190	5,170	6,130	7,970	9,700		
50 x 100								6,600	8,590	10,500		
60 x 80						4,190	5,170	6,130	7,970	9,700		
60 x 100							5,960	7,070	9,220	11,300		
60 x 120							6,740	8,010	10,500	12,800		
80 x 100								8,010	10,500	12,800		
80 x 120							7,770	9,173	12,091	14,682	17,026	
80 x 140								9,990	13,108	16,532	18,803	
80 x 160								11,030	14,810	17,643	21,023	
100x140								11,030	14,810	17,643	21,023	
100x150								11,500	15,300	19,000	21,616	
100x200								14,100	18,720	22,455	26,798	
150x200								15,990	21,230	26,403	31,535	
150x250									24,200	29,900	37,200	
200x300										30,500	37,800	47,100

## KARE KUTU PROFİL <MT-KG> AĞIRLIK



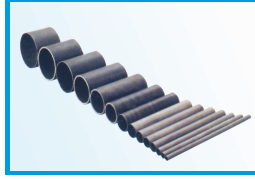
EBAT	ET KALINLIĞI										
	0,8 mm	0,9 mm	1,00mm	1,2 mm	1,5 mm	2,00mm	2,5 mm	3,00mm	4,00mm	5,00mm	6,00mm
10 x 10	0,231	0,257	0,282	0,338							
15 x 15	0,356	0,399	0,438	0,516	0,632						
20 x 20	0,482	0,539	0,595	0,708	0,868	1,120					
25 x 25	0,608	0,681	0,753	0,896	1,100	1,440	1,800	2,160			
30 x 30	0,733	0,822	0,909	1,085	1,340	1,750	2,190	2,360			
35 x 35			1,070	1,267	1,570	2,070	2,540	2,860			
40 x 40		1,096	1,218	1,462	1,810	2,380	2,930	3,330	4,250	5,310	
50 x 50				1,616	2,020	2,660	3,290	3,760	4,820	6,430	
60 x 60				2,190	2,730	3,640	4,500	5,220	6,760	8,130	
70 x 70					3,190	4,260	5,290	6,160	8,020	9,700	
75 x 75						4,580	5,680	6,630	8,650	10,500	
80 x 80							6,070	7,100	9,280	11,300	
90 x 90						5,520	6,860	8,040	10,500	12,800	
100x100								8,990	11,800	14,400	17,390
110x110								9,860	13,060	16,170	19,130
120x120								10,820	14,310	17,730	21,150
125x125								11,270	14,890	18,440	22,020
150x150								13,590	17,940	22,270	26,550
175x175									21,090	26,050	31,030
200x200									24,200	29,200	37,200
250x250									30,500	37,800	47,100

## DİKDÖRTGEN ve KARE KUTU PROFİL <MT-KG> AĞIRLIK

EBAT	ET KALINLIĞI			
	0,6 mm	6,30 mm	8,00 mm	10,00 mm
100 x 150		22.400	27.700	33.400
100 x 200		27.400	33.900	41.300
150 x 150		27.400	33.900	41.300
150 x 250		37.200	46.500	57.000
200 x 200	35.800	37.200	46.500	57.000
200 x 300	45.200	47.100	59.100	72.700
250 x 250	45.200	47.100	59.100	72.700
260 x 260	47.100	49.100	61.600	75.800

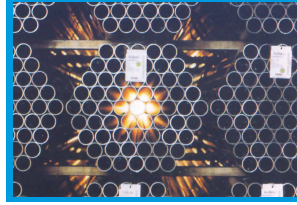


## YUVARLAK SANAYİ BORULARI EN 10219 - 2 - 1997



EBAT	ET KALINLIĞI										
	0,80mm	0,90mm	1,00mm	1,20mm	1,50mm	2,00mm	2,50mm	3,00mm	3,50mm	4,00mm	5,00mm
6	0,102		0,123								
8	0,142		0,173								
9	0,162		0,197								
10	0,181		0,222								
13	0,240	0,266	0,296	0,349							
16	0,299	0,335	0,370	0,438	0,536	0,691					
17	0,320	0,350	0,394	0,468	0,573	0,740					
19	0,359	0,409	0,444	0,527	0,647	0,838					
21	0,398	0,446	0,493	0,586	0,721	0,937					
22	0,418	0,468	0,513	0,616	0,758	0,986					
25	0,447	0,535	0,592	0,704	0,869	1,134					
28	0,546	0,601	0,666	0,793	0,980	1,282					
28.6	0,548	0,614	0,680	0,810	1,002	1,311					
32	0,615	0,690	0,765	0,911	1,128	1,478	1,818	2,144			
35	0,674	0,756	0,838	1,000	1,238	1,626	2,002	2,366			
38	0,734	0,823	0,912	1,088	1,350	1,774	2,188	2,588			
40	0,773	0,867	0,962	1,147	1,423	1,873	2,311	2,736			
42	0,812	0,912	1,028	1,207	1,498	1,972	2,435	2,885	3,321	3,747	
45		0,978	1,085	1,296	1,608	2,120	2,619	3,106	3,508	4,042	
48		1,044	1,158	1,408	1,719	2,268	2,805	3,329	3,839	4,338	5,300
51		1,111	1,232	1,473	1,830	2,416	2,988	3,550	4,098	4,634	5,669
57				1,650	2,052	2,712	3,350	3,993	4,616	5,227	6,409
60				1,739	2,163	2,859	3,543	4,215	4,874	5,521	6,788
63.5				1,828	2,274	3,007	3,728	4,437	5,133	5,817	7,148
76				2,212	2,755	3,649	4,531	5,400	6,257	7,102	8,750
83					3,013	3,993	4,961	5,916	6,859	7,789	9,613
89					3,235	4,290	5,332	6,362	7,379	8,384	10,353
96					3,494	4,634	5,762	6,877	7,980	9,070	11,215
102						4,932	6,134	7,324	8,501	9,666	11,955
108						5,226	6,501	7,764	9,015	10,254	12,694
114						5,521	6,871	8,208	9,533	10,846	13,434

## KONSTRÜKSİYON BORULARI



ÇAP	ET KALINLIĞI mm.	AĞIRLIK kg/mt.
26,9 Siyah Dişsiz Boru	2,50	1,51
33,7 Siyah Dişsiz Boru	2,50	1,92
42,4 Siyah Dişsiz Boru	2,50	2,46
42,4 Siyah Dişsiz Boru	3,00	2,92
48,3 Siyah Dişsiz Boru	2,50	2,82
48,3 Siyah Dişsiz Boru	3,00	3,36
51,0 Siyah Dişsiz Boru	2,50	2,99
60,3 Siyah Dişsiz Boru	2,50	3,56
60,3 Siyah Dişsiz Boru	3,00	4,24
76,1 Siyah Dişsiz Boru	2,50	4,54
76,1 Siyah Dişsiz Boru	3,00	5,40
88,9 Siyah Dişsiz Boru	2,50	5,37
88,9 Siyah Dişsiz Boru	3,00	6,36
114,3 Siyah Dişsiz Boru	3,00	8,24

ÇELİK İSKELE BORULARI BİNA DIŞ CEPHE SIVA BOYA VE TAMİRLERİNDE İSKELE OLARAK KULLANILIP KAYNAKLI OLARAK İMAL EDİLİR.

## DOĞALGAZ BORULARI TS 6047 NATUREL GAS PIPES



İNÇ	ÇAP	ET KALINLIĞI mm.	kg / mt.	TEST BASINCI kg/cm <sup>2</sup>	KALİTE
2/3"	21,30	2,80	1,280	48	GR-A
3/4"	26,70	2,90	1,700	48	GR-A
1"	33,40	3,40	2,540	48	GR-A
1 1/4"	42,20	3,60	3,420	83	GR-A
1 1/2"	48,30	3,70	4,060	84	GR-A
2"	60,30	3,90	5,420	161	GR- X 42
2 1/2"	73,00	5,20	8,680	172	GR- X 42
3"	88,90	5,50	11,360	154	GR- X 42
4"	114,30	6,00	12,100	152	GR- X 42
5"	141,30	6,60	21,860	135	GR- X 42
6"	168,30	7,10	28,210	123	GR- X 42

MARKALAMA / MARKING 5L - 0322 AP TSE 01/97 TS 6047 168, 13X7.1 HS 6.625 28.22 B PSL 1 E0001

Tel: 282 653 22 44 - 653 20 44 - Fax: 282 653 14 24  
Yeni Sanayi Şube Tel: 282 673 7 673

## POLİETİLEN KAPLAMA STANDARTLARI



DOĞALGAZ BORULARIMIZ, DIN 30670 ve UNI 9099 NORM STANDARTLARINDA POLİETİLEN KAPLANMAKTADIR.

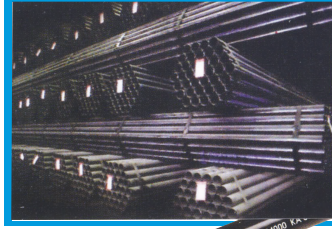
DIN 30670						UNI 9099 NORMU								
NORMAL KAPLAMA			GÜÇLENDİRİLMİŞ KAPLAMA			NORMAL KAPLAMA			GÜÇLENDİRİLMİŞ KAPLAMA			ÖZEL KAPLAMA		
Ebat	Kaplama Kalınlığı	Kaplama Ağırlığı (kg/m)	Ebat	Kaplama Kalınlığı	Kaplama Ağırlığı (kg/m)	Ebat	Kaplama Kalınlığı	Kaplama Ağırlığı (kg/m)	Ebat	Kaplama Kalınlığı	Kaplama Ağırlığı (kg/m)	Ebat	Kaplama Kalınlığı	Kaplama Ağırlığı (kg/m)
21,3	1,8	0,163	21,3	2,5	0,212	21,3	1,2	0,117	21,3	1,8	0,163	21,3	1,8	0,163
26,9	1,8	0,205	26,9	2,5	0,267	26,9	1,2	0,148	26,9	1,8	0,205	26,9	1,8	0,205
33,7	1,8	0,257	33,7	2,5	0,335	33,7	1,2	0,186	33,7	1,8	0,257	33,7	1,8	0,257
42,4	1,8	0,324	42,4	2,5	0,421	42,4	1,2	0,233	42,4	1,8	0,324	42,4	1,8	0,324
48,3	1,8	0,369	48,3	2,5	0,480	48,3	1,2	0,266	48,3	1,8	0,369	48,3	1,8	0,369
60,3	1,8	0,460	60,3	2,5	0,599	60,3	1,2	0,332	60,3	1,8	0,460	60,3	1,8	0,460
76,1	1,8	0,581	76,1	2,5	0,756	76,1	1,2	0,419	76,1	1,8	0,581	76,1	1,8	0,581
88,9	1,8	0,679	88,9	2,5	0,883	88,9	1,2	0,489	88,9	1,8	0,679	88,9	1,8	0,679
101,6	1,8	0,776	101,6	2,5	1,009	101,6	1,2	0,559	101,6	1,8	0,776	101,6	1,8	0,776
114,3	1,8	0,873	114,3	2,5	1,135	114,3	1,2	0,629	114,3	1,8	0,873	114,3	1,8	0,873
139,7	2,0	1,158	139,7	2,7	1,502	139,7	1,5	0,916	139,7	2,0	1,158	139,7	2,0	1,158
165,1	2,0	1,369	165,1	2,7	1,775	165,1	1,5	1,082	165,1	2,0	1,369	165,1	2,0	1,369
168,3	2,0	1,396	168,3	2,7	1,809	168,3	1,5	1,103	168,3	2,0	1,396	168,3	2,0	1,396
219,1	2,0	1,817	219,1	2,7	2,355	219,1	1,5	1,436	219,1	2,0	1,817	219,1	2,0	1,817
273,0	2,0	2,264	273,0	2,7	2,935	273,0	1,5	1,789	273,0	2,0	2,264	273,0	2,0	2,264
323,9	2,2	2,898	323,9	3,0	3,801	323,9	2,0	2,686	323,9	2,2	2,898	323,9	2,2	2,898

## EN 10255 SU VE GAZ BORULARI TSE 301/3 DIN 2440 BS 1387 EN 10255



İNÇ	ANMA ÇAPI	DIŞ ÇAP	KALINLIK	GALVANİZLİ DIŞLİ MANŞONLU	SİYAN DÜZ UÇLU
			MM	KG/MT	KG/MT
1/2"	15	21,3	2,65	1,29	1,22
3/4"	20	26,9	2,65	1,66	1,58
1"	25	33,7	3,25	2,57	2,44
1 1/4"	32	42,4	3,25	3,31	3,14
1 1/2"	40	48,3	3,25	3,81	3,61
2"	50	60,3	3,65	5,40	5,10
2 1/2"	65	76,1	3,65	6,93	6,51
3"	80	88,9	4,05	9,03	12,10
4"	100	114,3	4,50	13,00	16,20
5"	125	139,7	4,85	17,50	19,20
6"	150	165,1	4,85	20,70	20,70
8"	200	219,1	4,00		21,20
8"	200	219,1	4,50		23,80
8"	200	219,1	5,00		26,40
10	250	273,0	5,00		33,00
10	250	273,0	5,60		38,90
12	300	323,9	5,00		39,30
12	300	323,9	5,60		44,00

## EN 10255 SU VE GAZ BORULARI TSE 301/3 DIN 2440 BS 1387 EN 10255

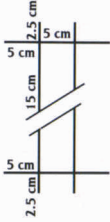


NOMİNAL ÇAP	DIŞ ÇAP	ET KALINLIĞI mm.	AĞIRLIK kg/mt.
46/51	51	3,00	3,60
51/57	57	3,00	4,00
57/63	63	3,00	4,50
64/70	70	3,00	4,95
70/76	76	3,00	5,45
76/83	83	3,25	6,45
83/89	89	3,25	6,85
95/102	102	3,75	9,10
102/108	108	3,75	9,70
108/114	114	3,75	10,20

ALÇAK BASINÇ KALORİFER KAZAN BORULARI OLUP  
70° C / 90° C SİSTEMLERİNDE KULLANILIR.

## GÜVENLİK ÇİTİ

**Çit Hasırı  
Gözenek Kesiti**



**GÜVENLİK ÇİTİ KESİTİ**

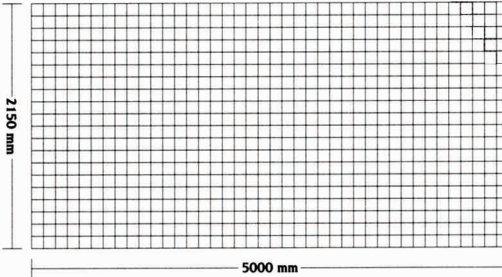


\* 5 X 5 cm göz aralıklı ebatları 1 x 02 mt olan güvenlik çitlerimizde mevcuttur.

### KULLANIM YERLERİ

- Belediye park ve bahçeleri
- Depolar
- Fabrika bahçeleri
- Hayvanat bahçeleri
- Kamyon ve kamyonet kasaları
- Yük asansörleri
- Mağaza içi separatör
- Balkon korkulukları
- Miting bariyerleri
- Şantiye güvenlik seperatörü
- Spor sahaları ve futbol stadyumları
- Karayolları heyelan bariyeri olarak

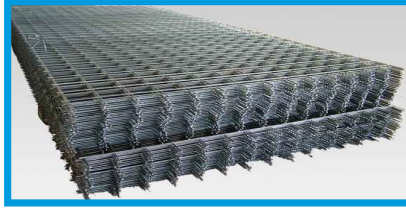
## BETON HASIR TEL



5 mm }  
6 mm } 2150 mm x 5000 mm  
8 mm }

Boyutlar : 1 m x 2 m  
Göz Aralıkları: 50 mm x 50 mm  
Çubuk Çapları: 4 mm x 4 mm  
3 mm x 3 mm

## ÇELİK - ÇİT HASIR



KALINLIK (mm)	EBATLAR	PLAKA/Kg.
5	Q131 215 x 500 15 x 15 cm	22.50
6	Q188 215 x 500 15 x 15 cm	32.00
8	Q335 215 x 500 15 x 15 cm	57.00
5	Çit-215 x 500 5 x 15 cm	46.00
5	Çit-150 x 500 5 x 15 cm	32.00
KALINLIK (mm)	EBATLAR	PLAKA/Kg.
2.3	Kafes Hasır 100 x 200 2 x 2 cm	6.00
2.7	Kafes Hasır 100 x 200 3 x 3 cm	7.00
3	Kafes Hasır 100 x 200 5 x 5 cm	5.00
4	Kafes Hasır 100 x 200 5 x 5 cm	8.00
5	Kafes Hasır 100 x 200 5 x 5 cm	11.00

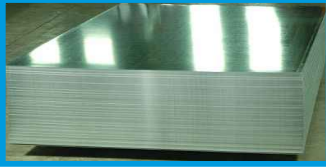


## ALÜM. LEVHA - ÇETA (BAKLAVALI)



KALINLIK (mm)	1000x2000mm kg/m <sup>2</sup>
1,5/2,5	10,0
2/3	12,5
3/4	18,0
4/5	23,5
KALINLIK (mm)	1250x2500mm kg/m <sup>2</sup>
1,5/2,5	15,0
2/3	18,0
3/4	28,0
4/5	38,5
KALINLIK (mm)	1500x3000mm kg/m <sup>2</sup>
1,5/2,5	20,5
2/3	26,5
3/4	39,0

## ALÜMİNYUM LEVHA



KALINLIK (mm)	1000x2000mm kg/m <sup>2</sup>
0,40	2,200
0,50	2,700
0,60	3,300
0,70	3,800
0,80	4,500
1,00	5,500
1,20	6,500
1,50	8,300
2,00	11,000
2,50	14,000
3,00	16,500
4,00	22,000
5,00	27,500
6,00	32,500
8,00	44,000
10,00	55,000
KALINLIK (mm)	1500x3000mm kg/m <sup>2</sup>
1,00	12,500
1,50	18,500
2,00	24,500

## ALÜMİNYUM TRAPEZ LEVHA

KALINLIK (mm)	1000x2000mm kg/m <sup>2</sup>
0,30	1,1
0,40	1,5
0,50	1,8
0,60	2,2
0,70	2,5
0,80	2,9
0,90	3,2
1,00	3,6

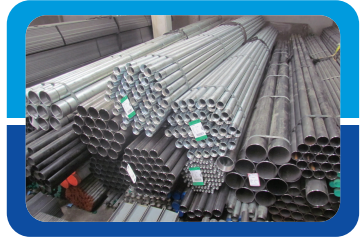
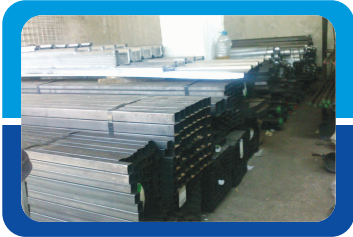
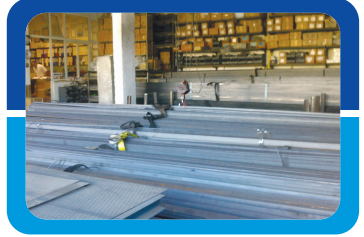


## ALTIKÖŞE DEMİRLER



(mm.)	(Kg./Mt.)	(mm.)	(Kg./Mt.)
5	0.170	24	3.916
6	0.245	25	4.250
7	0.333	26	4.596
8	0.435	27	4.956
9	0.550	28	5.330
10	0.680	29	5.717
11	0.823	30	6.118
12	0.980	31	6.553
13	1.150	32	6.961
14	1.332	33	7.403
15	1.530	34	7.860
16	1.740	35	8.328
17	1.965	36	8.810
18	2.203	37	9.307
19	2.454	38	9.817
20	2.719	39	10.340
21	2.998	40	10.880
21	3.290	45	13.770
22	3.596	50	17.000
23	3.916		





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