

HD HELİN DEMİR

ÜRÜNLERİ SAN. TİC. LTD. ŞTİ.

TEKNİK TABLOLAR VE BİLGİLER



TEKNİK TABLOLAR
DETAYLI VE GÜNCEL BİLGİLER



ÜRÜN STANDARTLARI
TEKNİK ÖZELLİKLER



KESİT HESAPLAMALARI
DAYANIM VE YÜK DEĞERLERİ



MÜHENDİSLİK VERİLERİ
PROJELERİNİZ İÇİN GÜVENİLİR
KAYNAK



ÜRÜN GRUPLARIMIZ



KUTU PROFİLLER
T DEMİRLER / HEA / HEB / IPE



NERVÜRLÜ BETON
ÇELİK ÇUBUKLAR



ÇELİK HASIR
TABLOLARI



TEKNİK TABLOLAR
VE BİLGİLER



SU - GAZ KAZAN BORUSU



KARE VE DİKDÖRTGEN
PROFİL BORULAR

SU VE GAZ BORULARI

EBAT	DIŞ ÇAP	ET KALINLIK mm	SİYAH Kg.mt.
1/2	21.3	2.65	1.220
3/4	26.9	2.65	1.580
1"	33.7	3.25	2.440
1.1/4	42.4	3.25	3.140
1.1/2	48.3	3.25	3.610
2"	60.3	3.65	5.100
2.1/2	76.1	3.65	6.510
3"	88.9	4.05	8.470
4"	114.3	4.50	12.100
5"	139.7	4.85	16.200
6"	165.1	4.85	19.200
8"	219.1	4.50	23.800
8"	219.1	5	26.400
8"	219.1	5.6	29.500
10"	273	5	33.000
10"	273	5.6	36.900
10"	273	6.3	41.400
12"	323.9	4.5	
12"	323.9	5	
12"	323.9	5.6	
12"	323.9	6.3	49.300

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KAZAN BORULARI

İÇ/DİŞ ÇAP mm	ET KALINLIK mm	1 mt./Kg.
39.5/44.5	2.5	2.600
46/51	3.0	3.600
51.57	3.0	4.000
57/63	3.0	4.500
64.70	3.0	4.950
70/76	3.0	5.450
76/83	3.25	6.460
83/89	3.25	6.850
95.102	3.75	9.100
102/108	3.75	9.700
108/114	3.75	10.200
119/127	4.0	12.200
125/133	4.0	12.700
133/140	4.0	13.500
150/159	4.5	17.200

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DİKDÖRTGEN PROFİLLER

EBAT **1 mt./Kg.**

10x20x1.00	0.440
10x30x1.00	0.600
15x25x1.00	0.600
20x30x1.00	0.760
20x30x1.20	0.900
20x30x1.50	1.110
20x40x1.00	0.910
20x40x1.20	1.090
20x40x1.50	1.340
20x40x2.00	1.760
25x15x1.20	0.708
25x15x1.50	0.868
25x40x1.20	1.180
25x40x1.50	1.460
25x40x2.00	1.920
30x40x1.00	1.070
30x40x1.20	1.270
30x40x1.50	1.580
30x40x2.00	2.070
30x40x3.00	2.860
30x50x1.00	1.210
30x50x1.20	1.440
30x50x1.50	1.810

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KARE PROFİLLER

EBAT	1 mt./Kg.
60x60x5.00	8.130
70x70x3.20	6.310
70x70x4.00	8.020
70x70x5.00	9.700
80x80x2.00	4.890
80x80x2.50	6.070
80x80x3.20	7.250
80x80x4.00	9.280
80x80x5.00	11.300
90x90x2.00	5.520
90x90x2.50	6.860
90x90x4.00	10.500
90x90x5.00	12.800
100x100x3.00	9.050
100x100x4.00	12.100
100x100x5.00	13.500
100x100x6.30	17.500

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KARE PROFİLLER

EBAT	1 mt./Kg.
10x10x1.00	0.280
15x15x1.00	0.400
20x20x1.00	0.600
20x20x1.20	0.660
25x25x1.00	0.750
25x25x1.20	0.900
25x25x1.50	1.110
30x30x1.00	0.910
30x30x1.20	1.080
30x30x1.50	1.340
30x30x2.00	1.760
40x40x1.10	1.210
40x40x1.20	1.460
40x40x1.50	1.810
40x40x2.00	2.390
40x40x2.50	2.940
40x40x3.00	3.490
40x40x4.00	4.090
50x50x1.50	2.280
50x50x2.00	3.020
50x50x2.50	3.730
50x50x3.00	4.430
50x50x4.00	5.510
50x50x5.00	6.560
60x60x2.00	3.640
60x60x2.50	4.510
60x60x3.20	5.370
60x60x4.00	6.760

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DİKDÖRTGEN PROFİLLER

EBAT	1 mt./Kg.
80x160x4.00	14.200
80x160x5.00	17.500
80x160x6.00	20.700
80x160x8.00	26.400
80x160x10.00	31.800
100x180x4.00	16.800
100x180x5.00	20.700
100x180x6.00	24.500
100x180x8.00	31.400
100x180x10.00	38.100
100x200x4.00	18.000
100x200x5.00	22.300
100x200x6.00	26.400
100x200x8.00	33.900
100x200x10.00	41.300
120x200x4.00	19.300
120x200x5.00	23.800
120x200x6.00	28.300
120x200x8.00	36.500
120x200x10.00	44.400
150x250x5.00	30.100

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DİKDÖRTGEN PROFİLLER

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EBAT	1 mt./Kg.
50x100x2.50	5.680
50x100x3.00	6.630
50x100x4.00	8.650
60x80x2.60	6.310
60x80x3.20	6.310
60x100x2.50	6.070
60x100x3.00	7.100
60x100x4.00	9.280
60x120x4.00	10.500
60x120x5.00	12.800
80x100x2.50	6.860
80x100x3.00	8.020
80x100x4.00	10.500
80x120x3.00	8.960
80x120x4.00	11.700
80x120x5.00	14.400
100x150x4.00	14.900
100x150x5.00	18.300
100x150x6.00	21.700
100x150x8.00	27.700
100x150x10.00	33.400



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DİKDÖRTGEN PROFİLLER

EBAT	1 mt./Kg.
30x50x2.00	2.390
30x50x2.50	2.930
30x50x3.00	3.330
30x70x2.60	3.730
30x70x3.20	4.430
40x30x3.00	2.860
40x60x1.50	2.250
40x60x2.00	3.010
40x60x2.50	3.730
40x60x3.20	4.430
40x60x4.00	5.510
40x80x2.00	3.640
40x80x2.60	4.510
40x80x3.20	5.370
40x80x4.00	6.760
40x100x2.60	5.300
40x100x3.20	6.310
40x100x4.00	7.970
50x70x2.00	3.640
50x70x2.60	4.510
50x70x3.20	5.370
50x90x2.60	5.300
50x90x3.20	6.310

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SANAYİ BORULARI

CİNSİ	Kg./m
38x1.2	1.100
38x1.3	1.340
38x1.5	1.350
38x2	1.776
42x1.2	1.220
42x1.5	1.460
42x2	2.000
42x2.5	2.940
42x3	3.350
45x1.2	1.320
45x1.5	1.620
48x1.5	1.720
48x2	1.600
48x2.5	3.690
48x3	4.425
51x1.2	1.500
51x1.5	1.820
51x2	2.390
51x2.5	2.990
60x1.5	2.160
60x2	2.800
60x1.2	4.650
60x2.5	5.500
60x3	5.500
63x2	3.010
76x2	3.740
76x2.5	4.650
76x3	5.500
89x2	4.360
89x2.5	5.500
89x3	6.550
114x2	5.580
114x2.5	7.010
114x3	8.415
114x4	11.000

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SANAYİ BORULARI

CİNSİ	Kg./m
13x1	280
13x1.2	0.349
13x1.5	0.425
16x1	370
16x1.2	450
16x1.5	0.536
17x2	740
19x1	440
19x1.2	550
19x1.5	0.647
21x1	510
21x1.2	600
21x1.5	740
21x2	980
21x2.5	1.300
21x3	1.628
25x1	600
25x1.2	720
25x1.5	890
25x2	1.190
25x2.5	1.387
27x1.5	1.960
27x2	2.350
27x2.5	1.212
32x1	780
32x1.2	890
32x1.5	1.150
32x2	1.540
32x2.5	1.617
34x3	2.020
34x1.5	2.425
34x2	2.590
34x2.5	3.110
34x3	2.355
38x1	930

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DİKDÖRTGEN PROFİLLER

EBAT	1 mt./Kg.
150x250x6.00	35.800
150x250x8.00	46.500
150x250x10.00	57.000
180x260x5.00	33.200
180x260x6.30	41.200
180x260x8.00	51.500
180x260x10.00	63.200
100x300x6.00	35.800
100x300x8.00	46.500
100x300x10.00	57.000
150x300x6.00	40.500
150x300x8.00	52.800
150x300x10.00	64.800
200x300x6.00	52.200
200x300x8.00	59.100
200x300x10.00	72.700
250x350x6.00	54.700
250x350x8.00	71.600
250x350x10.00	88.400

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GALVANİZLİ SACLAR

EBAT	Adet/Kg.
0.30x1000x2000	5.000
0.35x1000x2000	5.500
0.40x1000x2000	6.300
0.45x1000x2000	6.900
0.50x1200x2000	7.700
0.55x1000x2000	8.500
0.60x1000x2000	9.100
0.65x1000x2000	9.200
0.70x1000x2000	10.500
0.75x1000x2000	11.500
0.80x1000x2000	12.300
0.85x1000x2000	13.000
0.90x1000x2000	13.700
0.95x1000x2000	14.500
1.00x1000x2000	15.200
1.25x1000x2000	17.500
1.50x1000x2000	22.000
2.00x1000x2000	30.000



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LEVHA SACLAR

EBAT	Adet/Kg.
5.00x1500x6000	360.000
6.00x1500x6000	432.000
7.00x1500x6000	504.000
8.00x1500x6000	576.000
10.00x1500x6000	720.000
12.00x1500x6000	864.000
14.00x1500x6000	1.008.000
16.00x1500x6000	1.152.000
20.00x1500x6000	1.440.000
22.00x1500x6000	1.584.000
25.00x1500x6000	1.800.000
30.00x1500x6000	2.160.000
35.00x1500x6000	2.520.000
40.00x1500x6000	2.880.000
50.00x1500x6000	3.600.000
60.00x1500x6000	4.320.000
70.00x1500x6000	5.040.000
80.00x1500x6000	5.760.000
100x1500x6000	7.200.000

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SİYAH DKP SACLAR

EBAT	Adet/Kg.
0.40x1000x2000	6.400
0.50x1000x2000	8.000
0.60x1000x2000	9.600
0.70x1000x2000	11.200
0.70x1200x2400	16.130
0.80x1000x2000	12.800
0.80x1200x2400	18.430
0.90x1000x2000	14.400
0.90x1200x2400	20.740
1.00x1000x2000	16.000
1.00x1200x2400	23.040
1.20x1000x2000	19.200
1.20x1200x2400	27.650
1.50x1000x2000	24.000
1.50x1200x2400	34.560
2.00x1000x2000	32.000
2.00x1200x2400	46.080
2.50x1000x2000	40.000
2.50x1200x2400	57.600
3.00x1000x2000	48.000
3.00x1200x2400	69.120
3.00x1500x6000	213.300
4.00x1000x2000	64.000
4.00x1200x2400	92.160
4.00x1500x6000	288.000
5.00x1000x2000	80.000
5.00x1200x2400	115.200
6.00x1000x2000	96.000
6.00x1200x2400	138.000

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NPU DEMİRLER

EBAT	1 mt./Kg.
40x20x4.00	2.700
50x25x5.00	4.320
50x38x5.00	5.590
65x42x5.50	7.090
80x45x6.00	8.640
100x50x6.00	10.600
120x55x7.00	13.400
140x60x7.00	16.000
160x65x7.50	18.800
180x70x8.00	22.000
200x75x8.50	25.300
220x80x9.00	29.400
240x85x9.50	33.200
260x90x10.00	37.900
280x95x10.00	41.800
300x100x10.00	46.200
400 U	71.800

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BAKLAVALI SACLAR

KALINLIK	Kg./Adet
2/3 1000x2000	41.2
2/3 1200x2400	59.32
3/4 1000x2000	55.00
3/4 1200x2400	79.2
4/5 1000x2000	68.7
4/5 1200x2400	98.92
5/6 1000x2000	82.5
5/6 1200x2400	118.8
5.5/7 1000x2000	96.2
5.5/7 1200x2400	138.52
6.5/8 1000x2000	110
6.5/8 1200x2400	158.4
7.5/9 1000x2000	123.7
7.5/9 1200x2400	178.12
8.5/10 1000x2000	137.5
8.5/10 1200x2400	198

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KÖŞEBENTLER

CİNSİ	Km./m
20x20x3	0.880
25x25x3	1.120
30x30x3	1.330
30x30x4	1.780
35x35x4	2.100
40x40x3	1.815
40x40x4	2.420
50x50x5	3.770
60x60x6	5.420
65x65x7	6.830
65x65x9	8.620
70x70x7	7.380
75x75x6	6.870
75x75x7	7.940
80x80x8	9.660
80x80x10	11.900
90x90x9	12.200
100x100x10	15.100
110x110x10	16.600
120x120x10	18.200
120x120x11	19.900
120x120x12	21.600
150x150x14	31.600
150x150x16	35.900



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SİLMELER

EBAT

1 mt./Kg.

16x3.00

0.360

20x3.00

0.470

20x5.00

0.780

25x5.00

0.970

30x5.00

1.160

35x5.00

1.360

40x5.00

1.550

50x5.00

1.940

60x5.00

2.330

70x5.00

2.747

80x5.00

3.140

100x5.00

3.925

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LAMALAR

EBAT	1 mt./Kg.
20x10	1.550
25x10	1.940
30x10	2.350
35x10	2.720
40x10	3.110
40x12	3.770
40x15	4.660
40x20	6.220
45x10	3.500
50x10	3.890
50x12	4.710
50x16	6.280
50x20	7.820
60x8	3.730
60x10	4.670
60x15	7.040
60x20	9.340
60x25	11.670
70x8	4.360
70x10	5.450
80x8	4.980
80x10	6.230
80x15	9.330
80x20	12.460
100x10	7.780
100x25	19.480
120x10	9.330
120x12	11.300

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NPI DEMİRLER

EBAT	1 mt./Kg.
80x42x3.90	5.950
100x50x4.50	8.320
120x58x5.10	11.200
140x66x5.70	14.400
160x74x6.30	17.900
180x82x6.90	21.900
200x90x7.50	26.300
220x98x8.10	31.100
240x106x8.70	36.200
260x113x9.40	41.900
280x119x10.10	48.000
300x125x10.80	54.200
320x131x11.50	61.100
340x137x12.20	68.100
360x143x13.00	76.200
380x149x13.70	84.000
400x155	92.400
500x185	141.000
600x215	199.000

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DÖRTKÖŞE (KARE) DEMİRLER

EBAT	1 mt./Kg.
5x5	0.196
6x6	0.283
7x7	0.385
8x8	0.502
10x10	0.785
12x12	1.130
14x14	1.539
16x16	2.010
18x18	2.543
20x20	3.140
22x22	3.799
24x24	4.522
26x26	5.307
30x30	7.065
35x35	9.616
40x40	12.560
45x45	15.896
50x50	19.625
60x60	28.260
75x75	44.160
100x100	78.500
120x120	111.000
140x140	154.000
150x150	177.000

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YUVARLAK DEMİRLER

EBAT	1 mt./Kg.
28.00	4.834
29.00	5.185
30.00	5.549
32.00	6.313
34.00	7.127
36.00	7.990
38.00	8.903
40.00	9.865
45.00	12.485
50.00	15.413
55.00	18.650
60.00	22.195
65.00	26.050
70.00	30.210
75.00	34.680
80.00	39.458
100	61.700
105	68.000
110	74.600
115	81.500
120	88.800
125	96.300
130	104.000
135	112.000
140	121.000
145	130.000
150	139.000
160	158.000
170	178.000
180	200.000
190	223.000
200	247.000

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YUVARLAK DEMİRLER

EBAT	1 mt./Kg.
01.00	0.006
01.50	0.014
02.00	0.025
02.50	0.039
03.00	0.055
03.50	0.076
04.00	0.099
04.50	0.125
05.00	0.154
06.00	0.222
07.00	0.302
08.00	0.395
09.00	0.499
10.00	0.617
11.00	0.746
12.00	0.888
13.00	1.042
14.00	1.208
15.00	1.387
16.00	1.578
17.00	1.782
18.00	1.988
19.00	2.226
20.00	2.466
21.00	2.719
22.00	2.984
23.00	3.261
24.00	3.551
25.00	3.853
26.00	4.163
27.00	4.495

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HEA PROFİL

BOYUT

EBAT

	G kg/m	h mm	b mm	t _w mm	t _f mm	r mm
100 B	16.7	96	100	5	8	12
120 B	19.9	114	120	5	8	12
140 B	24.7	133	140	5.5	8.5	12
160 B	30.4	152	160	6	9	15
180 B	35.5	171	180	6	9.5	15
200 B	42.3	190	200	6.5	10	18
220 B	50.5	210	220	7	11	18
240 B	60.3	230	240	7.5	12	21
260 B	68.2	250	260	7.5	12.5	24
280 B	76.4	270	280	8	13	24
300 B	88.3	290	300	8.5	14	27
320 B	97.6	310	300	9	15.5	27
340 B	105	330	300	9.5	16.5	27
360 B	112	350	300	10	17.5	27
400 B	125	390	300	11	19	27
450 B	140	440	300	11.5	21	27
500 B	155	490	300	12	23	27
550 B	166	540	300	12.5	24	27

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IPE PROFİLLERİ (Ekonomik)

BOYUT

EBAT

	G kg/m	h mm	b mm	t _w mm	t _t mm	r mm
100	8.1	100	55	4.1	5.7	7
120	10.4	120	64	4.4	6.3	7
140	12.9	140	73	4.7	6.9	7
160	15.8	160	82	5	7.4	9
180	18.8	180	91	5.3	8	9
200	22.4	200	100	5.6	8.5	12
220	26.2	220	110	5.9	9.2	12
240	30.7	240	120	6.2	9.8	15
270	36.1	270	135	6.6	10.2	15
300	42.2	300	150	7.1	10.7	15
330	49.1	330	160	7.5	11.5	18
360	57.1	360	170	8	12.7	18
400	66.3	400	180	8.6	13.5	21
450	77.6	450	190	9.4	14.6	21
500	90.7	500	200	10.2	16	21
550	106	550	210	11.1	17.2	24
600	122	600	220	12	19	24
750x147	173	753	265	13.2	17	17

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T DEMİRLER

CİNSİ	Kg./m
20x20x3	0.880
25x25x3	1.250
30x30x3	1.500
30x30x4	1.870
35x35x4	1.900
40x40x4	2.240
50x50x5	3.770
50x50x6	4.440
60x60x6	5.420
60x60x7	6.230
70x70x7	8.320
80x80x8	10.675
90x90x9	13.420
100x100x11	16.400
120x120x13	23.200
140x140x15	31.300

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ÇELİK HASIR TABLOSU

Hasır Cinsi	cm ² /m		
	Boy	En	Kg/m ²
Q 106/106 150.150.4.5.4.5	1.06	1.06	1.70
Q 131/131 150.150.5.0.5.0	1.31	1.31	2.09
Q 158/131 150.150.5.5.5.0	1.58	1.31	2.32
Q 158/158 150.150.5.5.5.5	1.58	1.58	2.54
Q 188/131 150.150.6.0.5.0	1.88	1.31	2.57
Q 188/158 150.150.6.0.5.5	1.88	1.58	2.78
Q 188/188 150.150.6.0.6.0	1.88	1.88	3.01
Q 221/131 150.150.6.5.5.0	2.21	1.31	2.83
Q 221/158 150.150.6.5.5.5	2.21	1.58	3.05
Q 221/188 150.150.6.5.6.0	2.21	1.88	3.28
Q 221/221 150.150.6.5.6.5	2.21	2.21	3.53
Q 257/131 150.150.7.0.5.0	2.57	1.31	3.12
Q 257/158 150.150.7.0.5.5	2.57	1.58	3.34
Q 257/188 150.150.7.0.6.0	2.57	1.88	3.57
Q 257/221 150.150.7.0.6.5	2.57	2.21	3.82
Q 257/257 150.150.7.0.7.0	2.57	2.57	4.10

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NERVÜRLÜ BETON ÇELİK ÇUBUKLAR

Anma Çapı (D)/(mm)	Çevre Uzunluğu (U)/(cm)	Kesit Alanı (F)/(cm ²)	Teorik Ağırlık (G)/(kg/m)
8	2.51	0.503	0.395
10	3.14	0.785	0.617
12	3.77	1.13	0.888
14	4.40	1.54	1.21
16	5.03	2.01	1.58
18	5.65	2.54	2.00
20	6.28	3.14	2.47
22	6.91	3.80	2.98
24	7.54	4.52	3.55
25	7.85	4.91	3.85
26	8.17	5.31	4.17
28	8.79	6.16	4.84
30	9.42	7.07	5.55
32	10.05	8.04	6.31

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HEB PROFİL

BOYUT	EBAT					
	G kg/m	h mm	b mm	t _w mm	t _f mm	r mm
100 B	20.4	100	100	5	8	12
120 B	26.7	120	120	5	8	12
140 B	33.7	140	140	5.5	8.5	12
160 B	42.6	160	160	6	9	15
180 B	51.2	180	180	6	9.5	15
200 B	61.3	200	200	6.5	10	18
220 B	71.5	220	220	7	11	18
240 B	83.2	240	240	7.5	12	21
260 B	93.0	260	260	7.5	12.5	24
280 B	103	280	280	8	13	24
300 B	117	300	300	8.5	14	27
320 B	127	320	300	9	15.5	27
340 B	134	340	300	9.5	16.5	27
360 B	142	360	300	10	17.5	27
400 B	155	400	300	11	19	27
450 B	171	450	300	11.5	21	27
500 B	187	500	300	12	23	27
550 B	199	550	300	12.5	24	27

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ÇELİK HASIR KESİT TABLOSU

Çap	Alan	Kg/m	50 100d	75 150d	Çubuk aralıklarına göre cm ² /m				
					1.26	0.84	0.63	0.50	0.42
4.0	0.126	0.099	2.52	1.68	1.26	0.84	0.63	0.50	0.42
4.5	0.159	0.125	3.18	2.12	1.59	1.06	0.80	0.64	0.53
5.0	0.196	0.154	3.93	2.62	1.96	1.31	0.98	0.78	0.65
5.5	0.238	0.187	4.75	3.17	2.38	1.58	1.19	0.95	0.79
6.0	0.283	0.222	5.65	3.77	2.82	1.88	1.41	1.13	0.94
6.5	0.332	0.260	6.64	4.43	3.31	2.21	1.65	1.33	1.10
7.0	0.385	0.302	7.70	5.13	3.85	2.57	1.92	1.54	1.28
7.5	0.442	0.347	8.84	5.89	4.42	2.95	2.20	1.77	1.47
8.0	0.503	0.395	10.05	6.70	5.03	3.35	2.51	2.01	1.67
8.5	0.567	0.445	11.35	7.57	5.67	3.78	2.84	2.27	1.89

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ÇELİK HASIR TABLOSU TİP

Hasır Cinsi	cm ² /m		
	Boy	En	Kg/m ²
R 106 150.250.4.5.4.5	1.06	0.64	1.37
R 131 150.250.5.0.5.0	1.31	0.78	1.69
R 158 150.250.5.5.5.0	1.58	0.78	1.92
R 188 150.250.6.0.5.0	1.88	0.78	2.16
R 221 150.250.6.5.5.0	2.21	0.78	2.43
R 257 150.250.7.0.5.0	2.57	0.78	2.72
R 295 150.250.7.5.5.0	2.95	0.78	3.04
R 317 150.250.5.5d.5.0	3.17	0.78	2.88
R 377 150.250.6.0d.5.0	3.77	0.78	3.30
R 443 150.250.6.0d.5.5	4.43	0.95	3.89
R 513 150.250.7.0d.6.0	5.13	1.13	4.51

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ÇELİK HASIR TABLOSU

Hasır Cinsi	cm ² /m		
	Boy	En	Kg/m ²
Q 295/131 150.150.7.5.5.0	2.95	1.31	3.44
Q 295/158 150.150.7.5.5.5	2.95	1.58	3.66
Q 295/188 150.150.7.5.6.0	2.95	1.88	3.89
Q 295/221 150.150.7.5.6.5	2.95	2.21	4.14
Q 295/257 150.150.7.5.7.0	2.95	2.57	4.41
Q 295/295 150.150.7.5.7.5	2.95	2.95	4.71
Q 317/131 150.150.5.5d.5.0	3.17	1.31	2.93
Q 317/158 150.150.5.5d.5.5	3.17	1.58	3.15
Q 317/188 150.150.5.5d.6.0	3.17	1.88	3.38
Q 317/221 150.150.5.5d.6.5	3.17	2.21	3.63
Q 317/257 150.150.5.5d.7.0	3.17	2.57	3.91
Q 317/158 150.150.6.0d.5.5	3.77	1.58	3.51
Q 317/188 150.150.6.0d.6.0	3.77	1.88	3.74
Q 377/221 150.150.6.0d.6.5	3.77	2.21	3.99
Q 377/257 150.150.6.0d.7.0	3.77	2.57	4.26
Q 443/188 150.150.6.5d.6.0	4.43	1.88	4.13
Q 443/221 150.150.6.5d.6.5	4.43	2.21	4.38
Q 443/257 150.150.6.5d.7.0	4.43	2.57	4.65

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