

MAX RÜZGÂR MENZİLİ TABLOSU ($a_w < 200m$)

Boy Tip	10	11	12	13	14	15	16	17
2	146	145	146	128	-	-	-	-
2,5	190	189	184	172	-	-	-	-
3	229	226	221	208	202	196	190	-
3,5	273	270	266	252	246	240	235	-
4	317	307	302	297	290	284	279	272
5	399	396	390	385	379	373	367	360

$a_w > 200 m$ için MAX RÜZGÂR MENZİLİ Tablosu

Boy Tip	10	11	12	13	14	15	16	17
3	248	243	236	214	204	-	-	-
3,5	322	317	310	288	277	267	258	-
4	395	379	370	361	351	341	332	320
5	532	526	518	509	498	488	479	467

KÖŞEDE TAŞIYICI DİREKLER

1. VARSAYIM :

$$P_d = Z \cdot 2 \cos \alpha / 2$$

$$Z = \text{Max cer kuvveti} (3 \times 342,54)$$

$$Z = 1027,62 \text{ kg}$$

$$\cos \alpha / 2 = \frac{P_d}{2 \cdot Z}$$

TEPE KUVVETİ	200	250	300	350
3 SWALLOW	168°30'	166°02'	163°12'	160°23'

KÖŞEDE DURDURUCU DİREKLER

α	I. VARSAYIM	DİREK TİPİ
(180° - 156°)	$R = 1027,62 \sqrt{0,5625 + \cos^2 \alpha / 2} = 799,78 \text{ kg}$	8
(156° - 128°40')	$R = \dots = 890 \text{ kg}$	9
(128°40' - 121°46')	$R = 2055,24 \cos \alpha / 2 = 1000,05 \text{ kg}$	10
(121°46' - 115°17')	$R = \dots = 1100,00$	11
(115°17' - 108°33')	$R = \dots = 1200,00$	12
(108°33' - 101°31')	$R = \dots = 1300,00$	13
(101°31' - 94°07')	$R = \dots = 1400,00$	14
(94°07' - 86°15')	$R = \dots = 1500,00$	15

DURDURUCU DİREKLER

I. VARSAYIM :

$$P_d = 0,75 \cdot 3 \cdot 342,54 = 770,7 \text{ kg} \quad (\text{DİREK TİPİ : 8})$$

SON DİREKLER

I. VARSAYIM :

$$P_d = 3 \cdot 342,54 = 1027,62 \text{ kg} \quad (\text{DİREK TİPİ : 11})$$

TRAVERS BOYU

$$L = 0,20 + 2D$$

$$L = 0,20 + 2 \cdot \left(0,5 \sqrt{3,317 \cdot 10^{-4} \cdot a^3 + \frac{35}{150}} \right) = 0,666 + 1,821 \cdot 10^{-2} a$$

$$M_b = 1/3 \cdot T_{\max} \left(\frac{L}{2} - 0,10 \right)$$

L (m)	O (m)	M _b
200	73	61,63
220	84	68,50
240	95	75,35
260	106	82,20
280	117	89,06
300	128	95,91

L (cm)	σ (m)	M ₆
300	127	95,91
320	132	102,76
340	137	109,61
360	142	116,46
390	147	123,31
400	152	130,16

TASIYICI TRAVERSLERİN SEÇİM CETVELİ

KULLANMA MENZİLİ			G ₁			İSG. ZİLİK MENZİLİ G _{2, max} (m)		
σ (m)	L (cm)	ρ ₀ (cm)	T/27	T/50	T/80	T/27	T/50	T/80
73	200	90	65	100	145	185	-	-
84	220	100	70	105	155	161	-	-
95	240	110	75	110	165	121	-	-
106	260	120	80	115	170	79	-	-
117	280	130	80	120	180	79	283	-
127	300	140	85	125	190	62	232	-
132	320	150	90	130	200	-	204	-
137	340	160	90	135	210	-	160	-
142	360	170	95	140	215	-	156	372
147	380	180	95	145	225	-	132	320
152	400	190	100	150	235	-	122	273

DURDURUCU ve NİHAYET TRAVERSLERİ TAYİNİ

$$M_1 = \rho_0 = 342,54$$

TİP	M ₁ (kg/cm)	ρ ₀ (cm)	L	
N/70	70000	204,95	0 - 4,00 m	İçin N/70 tipi süratler
N/170	170000	496,29	4,00 - 5,00 m	N/170