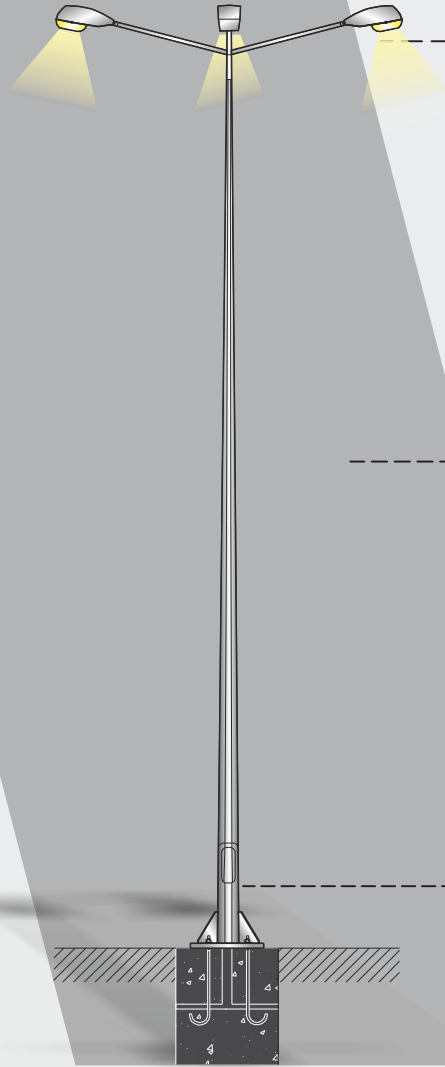
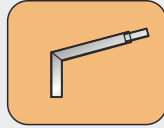


AYDINLATMA DİREĞİ TANIMLAMA / LIGHTING POLE DEFINITIONS

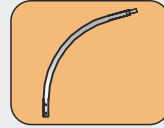


KONSOLLAR / ARMS

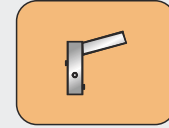
STANDART KONSOLLAR
STANDARD ARMS



BÜKME KONSOLLAR
BENDING ARMS



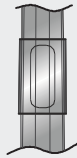
KISA KONSOLLAR
SHORT ARMS



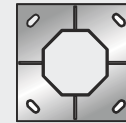
KESİTLER / CROSS SECTIONS



ANKRAJ CİVATASI
ANCHOR BOLT



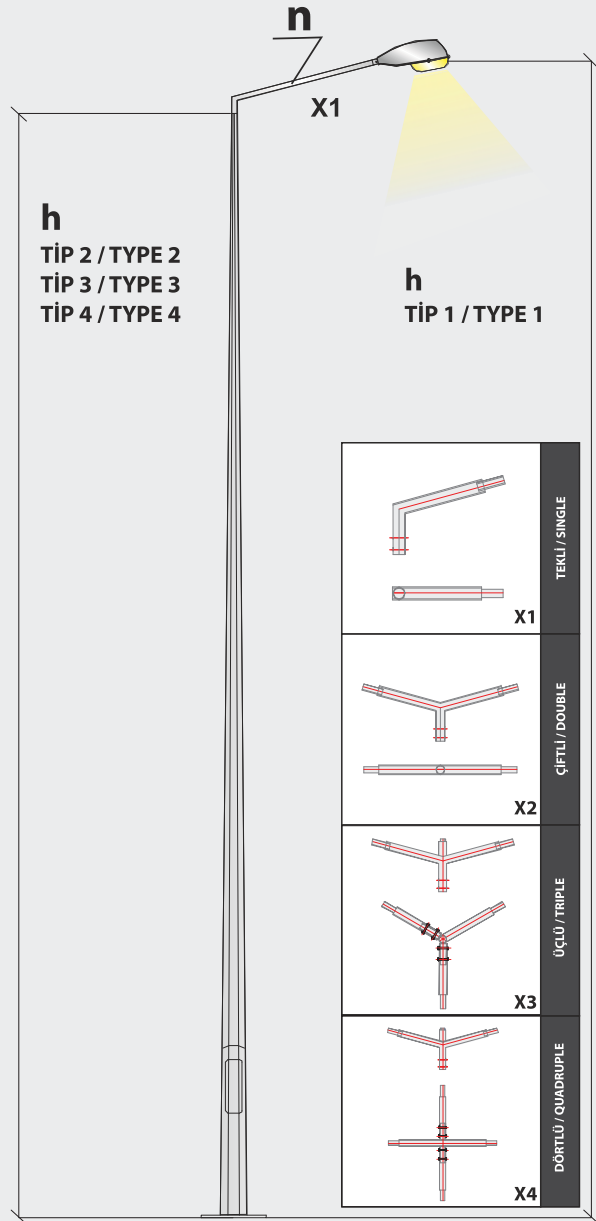
SİGORTA KAPAĞI
FUSE COVER



TABAN PLAKASI
BASE PLATE



TAKVİYE PLAKASI
GUSSET PLATE



$$AD \quad \boxed{X} \quad - \quad \boxed{h} \quad / \quad \boxed{n}$$

KONSOL SAYISI

DİREK ÜZERİNE BAĞLANACAK KONSOLLARIN
(90°-180°-270°-360° BAZ ALINARAK)
KAÇ ADET OLACAĞI TANIMLANIR.

X = 1 ADET , X = 2 ADET
X = 3 ADET , X = 4 ADET

NUMBER OF ARMS

CLARIFY NUMBER OF ARMS USE ON THE POLE
(ACCORDING TO THE 90°-180°-270°-360° DEGREES)

X = 1 UNIT , X = 2 UNITS
X = 3 UNITS , X = 4 UNITS

DİREK BOYU

DİREK GÖVDESİNİN BOYU DESİMETRE
(dm) CİNSİNDEN TANIMLANIR.

POLE HEIGHT

POLE HEIGHT IS DEFINED IN
DECIMETERS (dm).

KONSOL BOYU

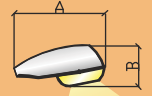
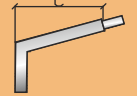
KONSOLUN BOYU DESİMETRE
(dm) CİNSİNDEN TANIMLANIR.

ARM LENGTH

ARM LENGTH IS DEFINED IN
DECIMETERS (dm).

ÖRNEKLER / EXAMPLES

- | | | | | |
|----------------------|-------------------|--------|-----------------------------|--------------------|
| 1) AD1 - 100 / 20 : | 10 METRE BOYUNDA, | 1 ADET | 2 METRE KONSOLU OLAN, | AYDINLATMA DİREĞİ. |
| : | 10 METER LENGTH, | 1 UNIT | 2 METER ARM LENGTH, | LIGHTING POLE. |
| 2) AD2 - 80 / 10 : | 8 METRE BOYUNDA, | 2 ADET | 1 METRE KONSOLU OLAN, | AYDINLATMA DİREĞİ. |
| : | 8 METER LENGTH, | 2 UNIT | 1 METER ARM LENGTH, | LIGHTING POLE. |
| 3) AD3 - 150 / 25 : | 15 METRE BOYUNDA, | 3 ADET | 2,5 METRE KONSOLU OLAN, | AYDINLATMA DİREĞİ. |
| : | 15 METER LENGTH, | 3 UNIT | 2,5 METER ARM LENGTH, | LIGHTING POLE. |
| 4) AD4 - 120 / 15 : | 12 METRE BOYUNDA, | 4 ADET | 1,5 METRE KONSOLU OLAN, | AYDINLATMA DİREĞİ. |
| : | 12 METER LENGTH, | 4 UNIT | 1,5 METER ARM LENGTH, | LIGHTING POLE. |
| 5) AD1 - 80 / 10 B : | 8 METRE BOYUNDA, | 1 ADET | 1 METRE BÜKME KONSOLU OLAN, | AYDINLATMA DİREĞİ |
| : | 10 METER LENGTH, | 1 UNIT | 2 METER ARM LENGTH | LIGHTING POLE. |

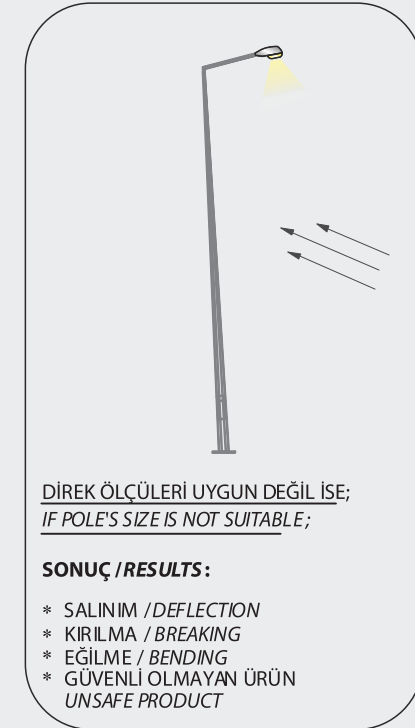
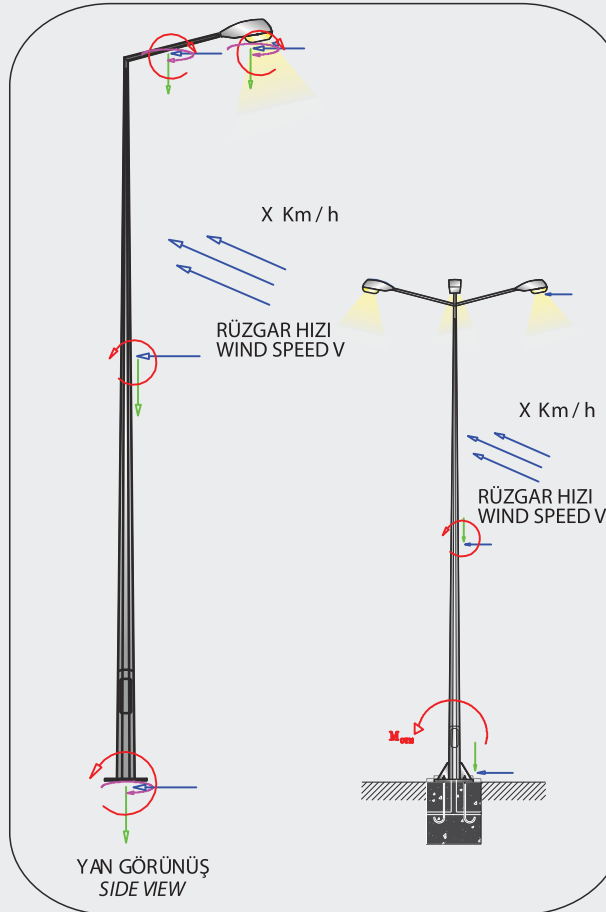
1 RÜZGAR HIZI SEÇİMİ WIND SPEED SELECTION	2 ARMATÜR VE KONSOL ÖLÇÜLERİ LUMINAIRE DIMENSIONS	3 HESAP STANDARDI SEÇİMİ DESIGN CODE SELECTION
TASARIM İÇİN RÜZGAR HIZINI BELİRTİNİZ PLEASE SPECIFY THE WIND SPEED FOR POLE DESIGN	LÜTFEN ARMATÜR VE KONSOL ÖLÇÜLERİNİ BELİRTİNİZ. PLEASE SPECIFY LUMINARY AND ARM DIMENSIONS	LÜTFEN HESAP STANDARDINI SEÇİNİZ. PLEASE CHOOSE DESIGN CODE
☐ 130 Km / h 36,11 m/s ☐ ☐ 145 Km / h 40,27 m/s ☐ ☐ 152 Km / h 42,22 m/s ☐ ☐ 160 Km / h 44,44 m/s ☐ ☐ ... Km / h ... m/s ☐	A = ... cm B = ... cm C = ... cm AĞIRLIK L = ... kg WEIGHT L   YAN GÖRÜNÜŞ SIDE VIEW YAN GÖRÜNÜŞ SIDE VIEW	☐ ASCE MANUEL 72 STANDARTLARI ☐ ASCE MANUEL 72 STANDARDS ☐ TIA - EIA 222F STANDARTLARI ☐ TIA - EIA 222F STANDARDS ☐ TS-EN STANDARTLARI ☐ TS-EN STANDARDS

AKSESUARLARDAN GELEN KUVVETLER VE MOMENTLER
EXTERNAL LOADS AND MOMENTS FROM ACCESSORIES

-  BURULMA MOMENTİ (Nm)
TORSION (Nm)
 YATAY YÜK (N)
HORIZONTAL FORCE (N)
 DÜŞEY YÜK (N)
VERTICAL LOAD (N)
 EĞİLME MOMENTİ
BENDING MOMENT (Nm)
DİREK EKSENİ / AXIS OF POLE
- DİŞ YÜKLERE SEBEP OLAN AKSESUARLAR;
ACCESSORIES THAT CAUSE EXTERNAL LOADS;
* KONSOL / ARM
* ARMATÜR / LUMINAIRE
* DİĞER / OTHER

DİREK GÖVDESİNDEN GELEN KUVVETLER VE MOMENTLER
INTERNAL LOADS AND MOMENTS FROM POLE BODY

-  YATAY YÜK (N)
HORIZONTAL FORCE (N)
 DÜŞEY YÜK (N)
VERTICAL LOAD (N)
 EĞİLME MOMENTİ
BENDING MOMENT (Nm)
DİREK EKSENİ / AXIS OF POLE
- İÇ YÜKLERE SEBEP OLAN PARÇALAR;
PARTS THAT CAUSE INTERNAL LOADS;
* DİREK GÖVDESİ / POLE BODY



KONSOL TİPLERİ / ARM TYPES

STANDART KONSOLLAR / STANDARD ARMS

Ø60 Ø42-Ø48-Ø60 $\alpha = 0^\circ - 5^\circ - 10^\circ - 15^\circ$ * VEYA ÖZEL ÖLÇÜLER / OR SPECIAL DIMENSIONS	TEKLİ KONSOL / SINGLE ARM
Ø60 Ø42-Ø48-Ø60	ÇİFTLİ KONSOL / DOUBLE ARM
Ø60 Ø42-Ø48-Ø60	ÜÇLÜ KONSOL / TRIPLE ARM
Ø60 Ø42-Ø48-Ø60	DÖRTLÜ KONSOL / QUADRUPLE ARM

BÜKME KONSOLLAR / BENDING ARMS

Ø60 Ø42-Ø48-Ø60 $\alpha = 0^\circ - 15^\circ$	TEKLİ BÜKME KONSOL / SINGLE BENDING ARM
Ø60 Ø42-Ø48-Ø60	ÇİFTLİ BÜKME KONSOL / DOUBLE BENDING ARM

KISA KONSOLLAR / SHORT ARMS

Ø76 (Ø60-Ø48-Ø42)	TEKLİ KISA KONSOL / SINGLE SHORT ARM
Ø76 (Ø60-Ø48-Ø42)	ÇİFTLİ KISA KONSOL / DOUBLE SHORT ARM
Ø76 (Ø60-Ø48-Ø42)	ÜÇLÜ KISA KONSOL / TRIPLE SHORT ARM
Ø76 (Ø60-Ø48-Ø42)	DÖRTLÜ KISA KONSOL / QUADRUPLE SHORT ARM

ÖN GÖRÜNÜŞ / FRONT VIEW

ÜST GÖRÜNÜŞ / TOP VIEW

STANDART KONSOLLAR / STANDARD ARMS

BOY / LENGTH

- * 500 mm
- * 1000 mm
- * 1500 mm
- * 2000 mm
- * 2500 mm
- * Özel ölçü / Special dimension (mm)

BÜKME KONSOLLAR / BENDING ARMS

BOY / LENGTH

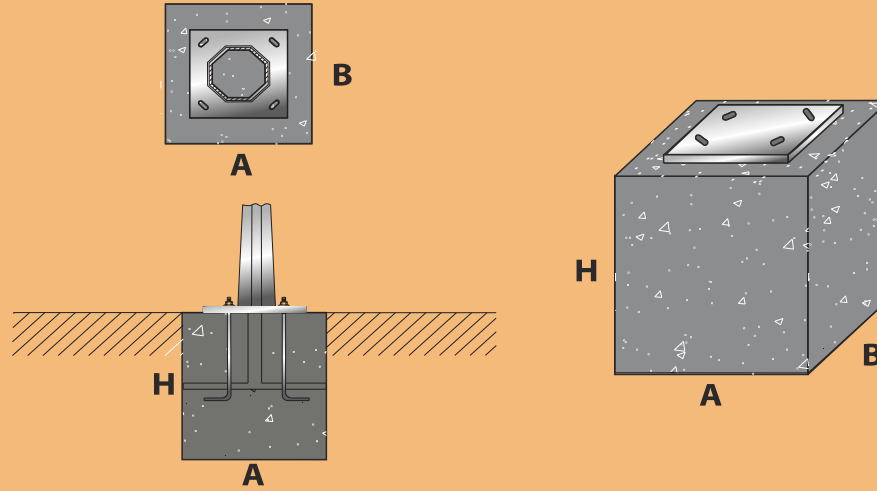
- * 500 mm
- * 1000 mm
- * 1500 mm
- * 2000 mm
- * 2500 mm
- * Özel ölçü / Special dimension (mm)

KISA KONSOLLAR / SHORT ARMS

BOY / LENGTH

- * 200 mm
- * 300 mm
- * Özel ölçü / Special dimension (mm)

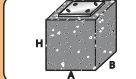
AYDINLATMA DİREĞİ TEMEL ÖLÇÜLERİ / LIGHTING POLE FOUNDATION DIMENSIONS



DİREK BOYU POLE LENGTH (m)	P ₀ (ZEMİN EMNİYET GERİLMESİ - (Kg/cm ²) -) FLOOR SAFETY STRESS		
	0,6	1	1,6
	(A x B x H) (mm)	(A x B x H) (mm)	(A x B x H) (mm)
3	500 x 500 x 600	400 x 400 x 600	400 x 400 x 500
4	500 x 500 x 600	400 x 400 x 600	400 x 400 x 500
5	600 x 600 x 600	500 x 500 x 600	400 x 400 x 600
6	600 x 600 x 600	500 x 500 x 600	400 x 400 x 600
7	700 x 700 x 600	600 x 600 x 600	400 x 400 x 600
8	800 x 800 x 600	700 x 700 x 600	400 x 400 x 600
9	ÖZEL ÖLÇÜ SPECIAL DIMENSION	800 x 800 x 700	700 x 700 x 700
10		800 x 800 x 800	700 x 700 x 800
11		800 x 800 x 800	700 x 700 x 800
12		800 x 800 x 800	700 x 700 x 800
13		1000 x 1000 x 1000	800 x 800 x 1000
14		1000 x 1000 x 1000	800 x 800 x 1000
15		1000 x 1000 x 1000	800 x 800 x 1000

POLİGONAL VE DAİRESEL KONİK AYDINLATMA DİREKLERİ TEKNİK BİLGİLER

POLYGONAL AND ROUND CONICAL LIGHTING POLES TECHNICAL DATA

DİREK TİPİ / TYPE OF POLE ROUND OR POLYGONAL CONIC		GÖVDE ÖZELLİKLERİ POLE BODY SPECIFICATIONS							TABAN PLAKASI BASE PLATE		ANKRAJ CİVATASI ANCHOR BOLT		TAKVİYE REINFORCEMENT PLATE	TEMEL ÖLÇÜLERİ FOUNDATION DIMENSIONS		YÜKLER / LOADS		ARMATÖR LANTERN
																		
		Direk Boyu Pole Length (m)	Kesit Section	Kesit Section	Üst Çap Top Diameter (mm)	Alt Çap Base Diameter (mm)	Kalınlık 1 Thickness 1 (mm)	Kalınlık 2 Thickness 2 (mm)	Ölçü (mm) Dimensions	Adet - Ø Pcs- Ø (mm)	Boy Length (mm)	Takviye Kullanımı Gusset Plate Usage	Temel Ölçüleri Po = 1 Foundations Dimensions Po = 1	Dikey Yük Vertical Load (N)	Rüzgar Hızı Wind Speed (Km/h)	Etki Yüzeyi Projected Surface (a x b...cm)		
3 METRE AYDINLATMA DİREĞİ 3 METER LIGHTING POLE	TYPE 1	2,5	8	-	60	105	3	-	220 x 220 x 8	4 - M12	432	√	400 x 400 x 600	1	618,15	130	30 x 60	
	TYPE 2	3	8	-	60	105	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	130	30 x 60	
	TYPE 3	3	-	0	60	90	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	120	30 x 60	
	TYPE 4	3	-	0	76	106	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	130	30 x 60	
4 METRE AYDINLATMA DİREĞİ 4 METER LIGHTING POLE	TYPE 1	3,5	8	-	60	105	3	-	220 x 220 x 8	4 - M12	432	√	400 x 400 x 600	1	618,15	130	30 x 60	
	TYPE 2	4	8	-	60	105	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	130	30 x 60	
	TYPE 3	4	-	0	60	100	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	120	30 x 60	
	TYPE 4	4	-	0	76	116	3	-	220 x 220 x 8	4 - M12	432	OPSİYONEL/OPTIONAL	400 x 400 x 600	1	618,15	130	30 x 60	
5 METRE AYDINLATMA DİREĞİ 5 METER LIGHTING POLE	TYPE 1	4,5	8	-	60	105	3	-	250 x 250 x 10	4 - M16	500	√	500 x 500 x 600	1	691,95	130	30 x 60	
	TYPE 2	5	8	-	60	125	3	-	220 x 220 x 12	4 - M12	432	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	145	30 x 60	
	TYPE 3	5	-	0	60	110	3	-	220 x 220 x 10	4 - M12	432	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	130	30 x 60	
	TYPE 4	5	-	0	76	126	3	-	220 x 220 x 10	4 - M16	500	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	130	30 x 60	
6 METRE AYDINLATMA DİREĞİ 6 METER LIGHTING POLE	TYPE 1	5,5	8	-	60	105	3	-	250 x 250 x 10	4 - M16	500	√	500 x 500 x 600	1	691,95	130	30 x 60	
	TYPE 2	6	8	-	60	140	3	-	260 x 260 x 10	4 - M16	576	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	145	30 x 60	
	TYPE 3	6	-	0	60	120	3	-	250 x 250 x 10	4 - M16	500	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	130	30 x 60	
	TYPE 4	6	-	0	76	136	3	-	250 x 250 x 10	4 - M16	500	OPSİYONEL/OPTIONAL	500 x 500 x 600	1	691,95	145	30 x 60	
7 METRE AYDINLATMA DİREĞİ 7 METER LIGHTING POLE	TYPE 1	6,5	8	-	60	125	3	-	250 x 250 x 10	4 - M16	500	√	600 x 600 x 600	1	871,25	130	30 x 60	
	TYPE 2	7	8	-	60	170	3	-	280 x 280 x 12	4 - M16	576	OPSİYONEL/OPTIONAL	600 x 600 x 600	1	871,25	145	30 x 60	
	TYPE 3	7	-	0	60	130	3	-	250 x 250 x 10	4 - M16	500	OPSİYONEL/OPTIONAL	600 x 600 x 600	1	871,25	130	30 x 60	
	TYPE 4	7	-	0	76	146	3	-	260 x 260 x 12	4 - M16	500	OPSİYONEL/OPTIONAL	600 x 600 x 600	1	871,25	130	30 x 60	
8 METRE AYDINLATMA DİREĞİ 8 METER LIGHTING POLE	TYPE 1	7,5	8	-	60	138	3	-	250 x 250 x 10	4 - M16	500	√	700 x 700 x 600	1	871,25	130	30 x 60	
	TYPE 2	8	8	-	60	180	3	-	300 x 300 x 14	4 - M16	576	OPSİYONEL/OPTIONAL	700 x 700 x 600	1	871,25	145	30 x 60	
	TYPE 3	8	-	0	60	140	3	-	250 x 250 x 10	4 - M16	500	OPSİYONEL/OPTIONAL	700 x 700 x 600	1	871,25	130	30 x 60	
	TYPE 4	8	-	0	76	156	3	-	280 x 280 x 12	4 - M16	500	OPSİYONEL/OPTIONAL	700 x 700 x 600	1	871,25	130	30 x 60	

POLİGONAL VE DAİRESEL KONİK AYDINLATMA DİREKLERİ TEKNİK BİLGİLER

POLYGONAL AND ROUND CONICAL LIGHTING POLES TECHNICAL DATA

DİREK TİPİ / TYPE OF POLE ROUND OR POLYGONAL CONIC		GÖVDE ÖZELLİKLERİ POLE BODY SPECIFICATIONS							TABAN PLAKASI BASE PLATE		ANKRAJ CİVATASI ANCHOR BOLT		TAKVİYE REINFORCEMENT PLATE	TEMEL ÖLÇÜLERİ FOUNDATION DIMENSIONS		YÜKLER /LOADS		ARMATÜR LANTERN
																		
		Direk Boyu Pole Length (m)	Kesit Section	Kesit Section	Üst Çap Top Diameter (mm)	Alt Çap Base Diameter (mm)	Kalınlık 1 Thickness 1 (mm)	Kalınlık 2 Thickness 2 (mm)	Ölçü (mm) Dimensions	Adet - Ø Pcs-Ø (mm)	Boy Length (mm)	Takviye Kullanımı Gusset Plate Usage	Temel Ölçüleri Po = 1 Foundations Dimensions Po = 1	Dikey Yük Vertical Load (N)	Rüzgar Hızı Wind Speed (Km/h)	Etki Yüzeyi Projected Surface (a x b...cm)		
9 METRE AYDINLATMA DİREĞİ 9 METER LIGHTING POLE	TYPE 1	8,5	8	-	60	155	3	-	300 x 300 x 12	4 - M16	500	√	800 x 800 x 700	1	969,25	130	30 x 60	
	TYPE 2	9	8	-	60	205	3	-	360 x 360 x 16	4 - M20	720	OPSİYONEL/OPTIONAL	800 x 800 x 700	1	969,25	145	30 x 60	
	TYPE 3	9	-	0	60	150	3	-	300 x 300 x 12	4 - M16	500	OPSİYONEL/OPTIONAL	800 x 800 x 700	1	969,25	130	30 x 60	
	TYPE 4	9	-	0	76	166	3	-	300 x 300 x 12	4 - M16	500	OPSİYONEL/OPTIONAL	800 x 800 x 700	1	969,25	130	30 x 60	
10 METRE AYDINLATMA DİREĞİ 10 METER LIGHTING POLE	TYPE 1	9,5	8	-	60	161	3	-	300 x 300 x 12	4 - M16	500	√	800 x 800 x 800	1	969,25	130	30 x 60	
	TYPE 2	10	8	-	60	220	3	-	400 x 400 x 16	4 - M20	720	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	145	30 x 60	
	TYPE 3	10	-	0	60	160	3	-	300 x 300 x 12	4 - M16	500	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	130	30 x 60	
	TYPE 4	10	-	0	76	176	3	-	360 x 360 x 16	4 - M16	500	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	130	30 x 60	
11 METRE AYDINLATMA DİREĞİ 11 METER LIGHTING POLE	TYPE 1	10,5	8	-	60	200	3	-	400 x 400 x 14	4 - M20	600	√	800 x 800 x 800	1	527,8	130	30 x 60	
	TYPE 2	11	8	-	60	235	3	-	420 x 420 x 16	4 - M20	720	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	527,8	145	30 x 60	
	TYPE 3	11	-	0	60	170	3	-	360 x 360 x 16	4 - M20	600	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	527,8	120	30 x 60	
	TYPE 4	11	-	0	76	186	3	-	400 x 400 x 14	4 - M20	600	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	527,8	130	30 x 60	
12 METRE AYDINLATMA DİREĞİ 12 METER LIGHTING POLE	TYPE 1	11,5	8	-	60	220	3	-	400 x 400 x 14	4 - M20	600	√	800 x 800 x 800	1	969,25	130	30 x 60	
	TYPE 2	12	8	-	60	250	3	-	420 x 420 x 16	4 - M20	720	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	145	30 x 60	
	TYPE 3	12	-	0	60	180	3	-	360 x 360 x 16	4 - M20	600	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	120	30 x 60	
	TYPE 4	12	-	0	76	196	3	-	400 x 400 x 14	4 - M20	600	OPSİYONEL/OPTIONAL	800 x 800 x 800	1	969,25	130	30 x 60	
13 METRE AYDINLATMA DİREĞİ 13 METER LIGHTING POLE	TYPE 1	12,5	8	-	60	245	3	3	400 x 400 x 14	4 - M20	600	√	1000 x 1000 x 1000	1	969,25	130	30 x 60	
	TYPE 2	13	8	-	60	225	3	4	440 x 440 x 18	4 - M24	864	OPSİYONEL/OPTIONAL	1000 x 1000 x 1000	1	969,25	145	30 x 60	
14 METRE AYDINLATMA DİREĞİ 14 METER LIGHTING POLE	TYPE 1	13,5	8	-	60	245	3	3	400 x 400 x 14	4 - M20	600	√	1000 x 1000 x 1000	1	969,25	130	30 x 60	
	TYPE 2	14	8	-	60	240	3	4	440 x 440 x 18	4 - M24	864	OPSİYONEL/OPTIONAL	1000 x 1000 x 1000	1	969,25	145	30 x 60	
15 METRE AYDINLATMA DİREĞİ 15 METER LIGHTING POLE	TYPE 1	14,5	8	-	60	245	3	3	400 x 400 x 14	4 - M20	600	√	1000 x 1000 x 1000	1	969,25	130	30 x 60	
	TYPE 2	15	8	-	60	250	3	4	440 x 440 x 18	4 - M24	864	OPSİYONEL/OPTIONAL	1000 x 1000 x 1000	1	969,25	145	30 x 60	