



Metal Structures

Shayan Bargh Industrial Group



**Shayan Bargh
Industrial Group**

A Company with purpose

Our mission is to move steadily Orienteering and moving steadily towards becoming a client-oriented, designer and creative organization that can bring beauty, pleasure and health with its various, high quality products.

- ◆ Customer satisfaction with the quality of design and manufacture of products, right prices, market value and after-sales service.
- ◆ Society satisfaction with the organization's efforts to promote the level of mental health of consumers and the beauty of the environment.
- ◆ Shareholders satisfaction with economic transparency and financial health and the increasing development of the organization.
- ◆ Personnel satisfaction with effort in a dynamic, educational and competent environment.
- ◆ Suppliers satisfaction with collaboration based on trust and mutual interests.

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Catalog shayan bargh

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Introduction

SHAYAN BARGH GROUP

shayanbargh company was established in 1993, In order to design and produce of Electronic products Including Wideboards for Display texts And moving images by using LED And computer and As Pioneer And large manufacturers This Product Took An important part of New markets of This product. The major products (highway warning signs VMS And Efficient information displays of Levels of air pollution, Voice Etc.) Is installed in streets and many squares In the capital and other major cities And regions of the Country. It works good after years. In 1379 with Change And increase Shareholders, Engineers And more experienced managers were shared in guidance of the Successful company. The result of it Was Development And diversity of Product (Making outdoor E-Decorating Like Trees and Symbols LED colorful decoration.) And supply several thousands kind Of these products to municipalities It caused the Decorate and Beauty Hundreds of Square In the country .and happiness people. Also, It was followed Facilities and Equipment The production And the building of our great factories in Industrial Ind zone No.3. The Company Became The biggest of Innovator manufacturer for offer Various products by using LED

Technique. Construction Light towers, highway and street lights, outdoor fitness equipment And many new products (By adding Sections And broad and equipped Salons for construction of steel structures), also Unique Features of Production OF Electronics and LED products Created Finally " Industry Group SHAYANBARGH" (As craftsman, dynamic, model, entrepreneur and best in the area). Special attention to development of research, Innovation, Design and Engineering And customer-oriented And supply Modern products with benefit and Public use In order to save And interests of consumers, Introduced The company as a pioneer And a major manufacturer of Ultra low-power LED lighting products in the country. Now And for the first time Is produced kind of led hightbay light, led street light, led park light, LED projectors, led tube light and others LED Household production and.... This products be provided With Quality and efficiency Higher than of external samples By engineers And Valuable Professionals of the company.

It is a pleasure The company's products In addition Is welcome The optimal (The country), also The country's borders Has opened In order to Exports to foreign (Neighbors countries, khaliq fars, CIS and Europe) And Has created Industry Group shayanbargh As the best exporter in markazi Industrial State in Consecutive years.

Champer Of Management group:

1. Mr. Morteza Badie: chairman Of The board.
2. Mr. Mohammad Biranvand: Managin director
3. Mr. mohammad mehdi jamal zadeh: Director Of finance
4. Mr. Abbas Rabizadeh: procurement Manager

Address And Specifications Factories:

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Tel: +98-86-33553248-9 (20 line)

Tehran Office:

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+9821-88709264-8



Introduction

SOME OF UNITS

Introducing a Number Of Units

Research and Development Unit

As a high-powered group, the unit offers new methods for the production of high-quality and modern products, synchronized with the state-of-the-art technology. Through its research and development activities, this unit creates the field of making products better than before and unique, which increases the productivity of the product line. These activities are interconnected with other factors of production.

Design and Engineering Unit

Using the most advanced engineering software in the field of electrical, electronics, mechanical and metallurgical software, the unit is always trying to meet the needs of customers in referral projects. In addition, the unit applies international standards related to metal structures and lighting fixtures.

Quality Control Units

The main purpose of these units is to ensure the production of quality products in accordance with national and international standards. Therefore, the task of this unit is to accurately and continuously monitor raw materials and production processes.



Manufacturing Units:

This unit has two main parts, Production of metallic structures And manufacturing, electronics assembly. Planning, Control, Production, Warehouse, Maintenance and Repair by using Machinery and Modern tools, Has caused The company's products supply Customer needs quickly and Quality. Manufacturing and electronics assembly unit is equipped to production lines, Electronic boards, SMD, THT and Automatic Controllers and mechanized Tables. This equipment Increases Accuracy And speed of Production and Products Quality. the manufacturing sector of metallic structures has large and efficient machines, bending, welding, Machining and ...



Electrical and photometry Laboratory unit:

Laboratory of Shayanbargh company has Modern and precision equipment In order to performance electrical And photometry various tests, temperature and humidity. The purpose of this lab is Control and increase quality of product and laboratory services .to Other Companies

Marketing

AGENCY & SUPPORT

Marketing, sale and Products distribution unit:

the unit has Experienced experts in Field of Sales and Marketing of products with two main part: internal sales and external sales(export). This unit has Close and enduring relationship with The company's customers And tries To know and resolve Diverse needs of Broad range of clients.

Installation And Service after the sale Unit:

the unit has Experienced And Worthy experts.they Are In all parts of the country.They Do Betimes Services of Warranty And support and Technical that Requested by the customers.

Agency Unit:

shayanbargh Industry Group Offers part of their products Through Wide network of Agents In all parts of the country.for Request of agency, please Contact with the unit.

Administrative and Support units:

The unit Consists of Leading experts In finance, Office Business, Management of Human Resource s and ... they help to Facilitate and Acceleration In Administrative and Operations and Support affairs. Staff of shayanbargh company included:Nearly Thirty-five Engineers and Experienced experts, with the large number Expert And personnel of production , Installation and technical support , Administrative and Finance



Join Permission , The Community

Permission , Join The Community

- Certificate of appreciation of Top Industrial unit in 2008 - 2018.
- Membership in the Task Force to develop technical specifications standard setting in the Energy Consumption Optimization Organization.
- Operating licenses 5651, 5652 and 5653 from the Ministry of Industry, Mine and Trade of Iran.
- Rated 3 in the field of electrical Energy from the Management and Planning Organization of Iran.
- R&D license 29060 from the Ministry of Industry, Mine and Trade of Iran.
- Membership in the Research and Development Association of the Ministry of Industry, Mine and Trade of Iran.
- Certificate of appreciation of Top Entrepreneur in 2007-2010.
- Certificate of appreciation of Top Entrepreneur in 2010.
- Certificate of appreciation of Top Exporter in 2011-2014.
- Certificates of UL, CE MARKING, ISO 10002(2004), OHSAS 18001(2017), ISO 14001, and ISO9001.



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RoHS

WWW.SHAYANELECTRIC.COM



SHAYAN BARGH
INDUSTRIAL GROUP

JOIN THE COMMUNITY

Permission





EC-Declaration of conformity

Certification Number: ERQC/CE/9938

This is to certify that described organization

SHAYAN BARGH COMPANY

Khair Abad Ind Zone, 25km of road Arak-Tehran, Iran.

Which has met the requirements according to declaration No EC-128-8 to European Council 2006/95/EC under his own responsibility

For the scope of activities

Manufacture of LED Street lighting

Brand name: N/A

The mentioned directive is regarding to

Low Voltage Directive 73/23/EEC as amended by 98/68/EEC

EMC Directive 89/336/EEC as amended by 92/31/EEC and 93/68/EEC

Regarding to below test methods:

EN 50115:2006 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61547:1995+A1:2000 Equipment for general lighting purposes, EN 61000-3-2:2006

Electromagnetic compatibility (EMC)

EN 61000-3-3:1995+A1:2001 Harmonics Standards for Commercial Electronic Products

The CE mark can be affixed on the product after preparation of necessary conformity documentation, as stipulated in article 19 of the Council Directive 93/68/EEC. The certification applies to the samples which maintained no technical document required by the organization.

Signature
Date: 17 April 2018
Valid Until: 17 April 2021

Arvick house, Houghton hall park, Houghton Regis, Bedfordshire, Beds, UK, ERQC

This is to certify that, according to the European council directive 2006/95/EC

DIRECTIVE 2006/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 13 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC

We, here at **SHAYAN BARGH COMPANY**

Declare under our own responsibility, that Manufacture of LED street lighting

To which this declaration relates, conforms to the following standards:

DIRECTIVE 2006/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL, of 12 December 2004 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits

By conformance with the standards referenced, the product meets the provisions of the EU

Directives Low Voltage Directive 73/23/EEC as amended by 98/68/EEC EMC Directive

89/336/EEC as amended by 92/31/EEC and 93/68/EEC Regarding to below test methods:

EN 50115:2006 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61547:1995+A1:2000 Equipment for general lighting purposes

EN 61000-3-2:2006 - Electromagnetic compatibility (EMC)

EN 61000-3-3:1995+A1:2001 Harmonics Standards for Commercial Electronic Products

Applicable standard(s):

EN 60598-1:2004

EN 60598-2-3:2003

Performed all notification duties and responsibilities as the European Authorized Representative of:

Khair Abad Ind Zone, 25km of road Arak-Tehran.

Sign:

Date:

No EC-128-8

Certificates

High Mast Lighting Towers with Mobile Basket



High mast lighting towers are used to light large areas such as parking lots, wharf and so on. In High mast lighting towers, floodlights or projectors are installed on tower baskets. In terms of performance mechanism, these products have two Mobile and Fixed Basket groups.

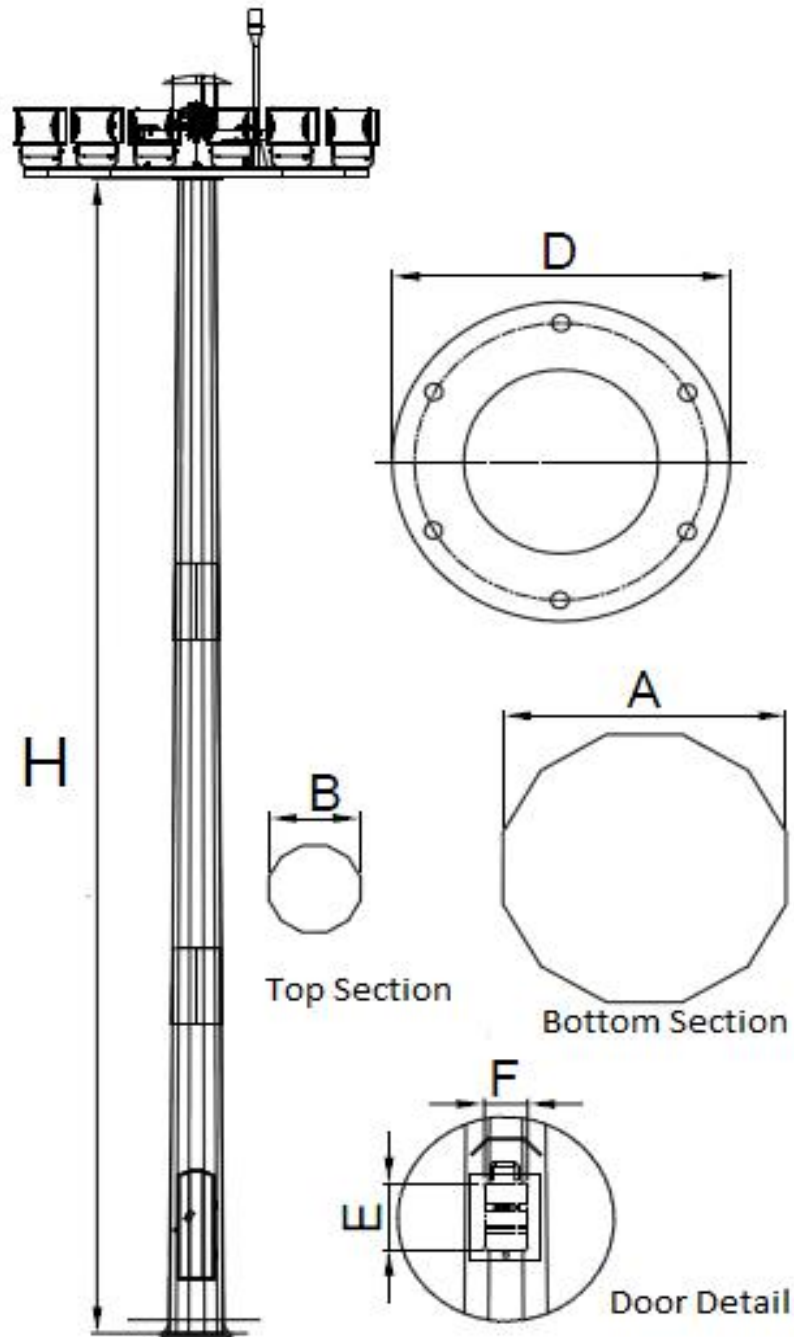
In order to select the appropriate product, the following should be considered: Lighting design, installation height (6 to 45 meters) and angle, number and type of floodlight or projector, dimensions and weight of the floodlight or projector, connecting parts overlapped, the kind of parts that are hot galvanized, performance mechanism, and the application conditions of the High Mast lighting tower.

Mobile Basket High mast lighting towers with the ability to install a 200 watt LED projector or 400 watt HID projector

Description	Technical Specifications of the Lighting Tower															
Tower height (m)	50m-MG-A	45m-MG-A	30m-MG-A	25m-MG-A	21m-MG-A	18m-MG-A	15m-MG-A	12m-G-C	12m-MG-B	12m-MG-A	9m-MG-C	9m-MG-B	9m-MG-A	9m-G-A	6m-MG-A	6m-G-A
Top section diameter (mm)	50	45	30	25	21	18	15	12	12	12	9	9	9	9	6	6
Bottom section diameter (mm)	250	350	243	229	210	155	191	136	152	152	140	130	130	130	130	130
Number of pieces	1150	1200	668	588	516	400	400	230	380	380	230	275	275	275	275	275
Height of columns (m)	10	9	6	5	4	4	3	2	2	3	2	2	2	2	1	1
Thickness (mm)	6,6,6,6,6,6,6,6,6,6	6,6,6,6,6,6,6,6,6,6	6,6,6,6,6,5	5,2,6,6,6,6	6,6,6,6	2,8,6,6,6,6	5,6,6,6	6,6	6,6	1,4,6,6,6	3,6	3,6	3,5,6	3,5,6	6	6
Dimensions of base plate (mm^3)	3,3,4,4,5,6,6,6,8,10	4,4,4,5,5,5,6,6,8	3,3,3,4,4,5	3,3,3,4,5	3,3,3,4,4	3,3,3,4	3,3,3,3	2,3	3,3	3,3,3,3	2,3	2,3	3,3	3,3	3	3
Access door dimensions (mm^2)	ø1750 x 40	ø1650 x 40	ø970 x 30	ø800 x 30	ø752 x 30	ø615 x 20	ø615 x 20	ø440 x 15	ø600 x 20	ø600 x 20	ø500 x 20	ø500 x 20	ø500 x 20	ø500 x 20	400*400*15	400*400*15
Wind speed at design basis (Km/h)	1040*460	1000*390	1000*340	1000*340	1000*340	900*290	900*290	700*270	900*290	900*290	700*270	700*270	700*270	700*270	700*270	700*270
Number of Bolts	110	110	110	110	110	110	110	90	110	110	90	90	110	110	110	110
PCD (Pitch Circle Diameter)	24	24	12	12	12	6	6	6	6	6	6	6	6	6	4	4
Number of faces (Polyhedron)	1638	1500	870	720	672	534	534	380	516	516	420	420	420	420	300*300	300*300
Basket diameter	12	12	12	12	12	12	12	8	12	12	8	8	8	8	8	8
Locking system	4525	3100	2715	2715	2020	1745	1745	1165	1165	1165	1165	1165	1165	1165	1200	1200
Gearbox type	✓	✓	✓	✓	✓	x	x	x	x	x	x	x	x	x	x	x
Wire rope diameter (mm)	MVF49/86	MVF49/86	MVF49/86	MVF49/62	MVF49/62	MVF49/49	MVF49/49	VF50	MVF49/49	MVF49/49	MVF49	MVF49	MVF49	VF49	MVF49	VF49
Maximum number of projector	8	8	8	8	8	6	6	6	6	6	6	6	6	6	6	6
Description	32*400W	24*1000W	24*400W 24*200W-LED	24*400W 24*200W-LED	18*400W 18*200W-LED	16*400W 16*200W-LED	16*400W 16*200W-LED	8*400W 8*200W-LED	12*400W 12*200W-LED	12*400W 12*200W-LED	8*400W 8*200W-LED	8*400W 8*200W-LED	8*400W 8*200W-LED	8*400W 8*200W-LED	6*400W 6*200W-LED	6*400W 6*200W-LED

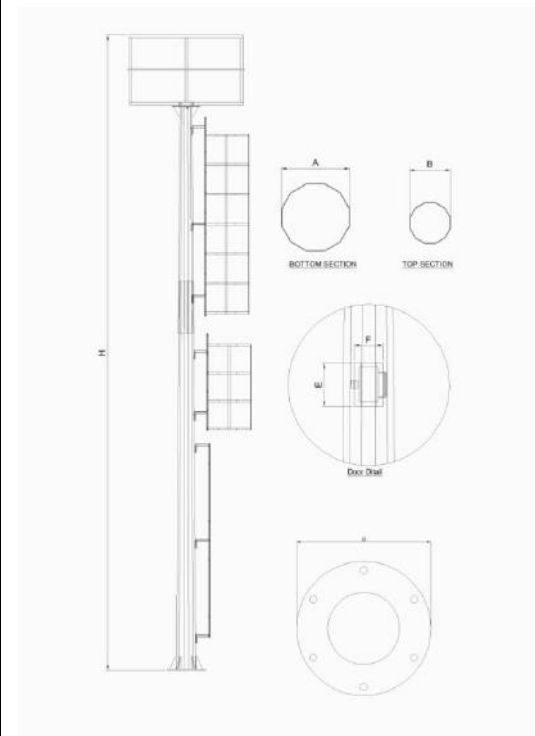
Technical Specifications of the Tower Foundation

PCD	Total weight of the Rebars (Kg)	Weight of the Rebars(Kg)	Total weight of the Bolts(Kg)	Number of Bolts	Thread diameter (mm)	Bolt diameter (mm)	Total weight of the Foundation (Kg)	Concrete volume (m3)	Crown dimensions (m)			Footing dimensions (m)			Foundation Specification Code	No.
									Height	Width	Length	Height	Width	Length		
300	23	6	17	4	22	24	1,440	0.60	0.4	0.5	0.5	0.5	1	1	6m-G,MG-A	1
420	32	6	26	6	22	24	1,788	0.75	0.5	0.7	0.7	0.5	1	1	9m-G,MG-A	2
516	65	39	26	6	22	24	3,288	1.37	0.5	0.7	0.7	0.5	1.5	1.5	12m-MG-A	3
420	65	39	26	6	22	24	3,288	1.37	0.5	0.7	0.7	0.5	1.5	1.5	12m-MG-B	4
380	27	6	21	6	22	24	1,853	0.77	0.4	0.7	0.7	0.4	1.2	1.2	12m-G-C	5
534	158	100	58	6	27	28	4,004	1.67	0.65	0.7	0.7	0.6	1.5	1.5	15m-MG-A	6
534	158	100	58	6	27	28	6,202	2.58	1	0.8	0.8	0.6	1.8	1.8	18m-MG-A	7
672	219	103	116	12	27	28	8,160	3.40	1	1	1	0.6	2	2	21m-MG-A	8
720	340	188	152	12	30	32	12,979	5.41	0.8	1	1	0.8	2.4	2.4	25m-MG-A	9
870	437	285	152	12	30	32	17,510	7.30	0.8	1.2	1.2	0.8	2.4	3.2	30m-MG-A	10
1500	1400	946	454	24	30	32	84,000	35.00	1.6	2.5	2.5	1	5	5	40m-MG-A	11
1638	1554	914	640	24	36	40	72,701	30.29	1.2	2.1	2.1	1	5	5	50m-MG-A	12



Fixed Basket High mast lighting towers (Stadium Lighting)

Description	35m-st	25m-st	21m-st	18m-st	15m-st	12m-st	9m-st	
Tower height (m)	35	25	21	18	15	12	9	H
Top section diameter (mm)	500	504	300	170	152	152	190	B
Bottom section diameter (mm)	1150	950	600	400	360	360	300	A
Number of pieces	6	5	4	3	3	2	2	
Height of columns (m)	5,6,6,6,6,6	6,6,6,6,3,5	6,6,6,4,5	6,6,6	6,6,2,7	6,6	2,8,6	
Thickness (mm)	10,8,6,6,6,6	8,8,6,6,6	5,4,3,3	5,4,3	3,3,3	3,3	3,3	
Dimensions of base plate (mm^3)	Ø1620*40	Ø1380*40	Ø800*30	Ø615*21	Ø600*20	Ø600*20	Ø500*20	ØD* C
Access door dimensions (mm^2)	1180*330	1180*330	1180*330	240*130	240*130	240*130	240*130	E*F
Wind speed at design basis (Km/H)	110	110	90	90	110	110	110	
Number of Bolts	34	27	12	6	6	6	6	
PCD (Pitch Circle Diameter)	1500	1260	720	534	516	516	420	
Number of faces (Polyhedron)	18	18	12	12	12	12	12	
Maximum number of projector	2000*36W	2000*24W	400*12W	400*12W	400*12W	400*8W	400*8W	
			200*12WLED	200*12W-LED	200*12W-LED	200*8W-LED	200*8W-LED	



Street Lighting Pole



This product is used with the arm to install a variety of streetlights for street lighting.

In order to select the appropriate product, after selecting the appropriate arm and with regard to the effective height of the arm, the urban furniture and street design, the Lighting Pole should be selected.

Selecting the proper coverage for this product is done according to climatic conditions as well as conditions of urban furniture and street design.

Technical Specifications of the Polyhedron Light Poles

Technical Specifications of the Polyhedron Light Poles (3m-6m)

Description	6m - Fix - C	6m - Fix - B	6m - Fix - A	6m - Fix - AT	5m - Fix - C	5m - Fix - B	5m - Fix - A	4m - Fix - C	4m - Fix - B	4m - Fix - A	3.5m - Fix - C	3.5m - Fix - B	3.5m - Fix - A	3m - Fix - C	3m - Fix - B	3m - Fix - A
Tower height (m)	6	6	6	6	5	5	5	4	4	4	3.5	3.5	3.5	3	3	3
Top section diameter (mm)	70	70	90	110	70	70	90	70	70	90	70	70	90	70	70	90
Bottom section diameter (mm)	150	160	180	230	150	150	150	140	140	140	140	140	140	140	140	140
Number of pieces	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Height of columns (m)	6	6	6	6	5	5	5	4	4	4	3.5	3.5	3.5	3	3	3
Thickness (mm)	2	3	3	3	2	3	3	2	3	3	2	3	3	2	3	3
Dimensions of base plate (mm^3)	300*300*6	300*300*8	300*300*10	400*400*15	300*300*6	300*300*8	300*300*8	205*205*6	205*205*6	205*205*6	205*205*6	205*205*6	205*205*6	205*205*6	205*205*6	205*205*6
PCD (Pitch Circle Diameter)	235*235	235*235	235*235	300*300	235	235	235	157*157	157*157	157*157	157*157	157*157	157*157	157*157	157*157	157*157
Wind speed at design basis (Km/H)	90	110	110	130	90	110	110	90	110	110	90	110	110	90	110	110
Number of Bolts	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Bolt diameter (mm)	20	20	24	24	20	20	20	14	14	14	14	14	14	14	14	14
Number of faces (Polyhedron)	8	8	8	8	8	8	8	6	6	6	6	6	6	6	6	6
Gussets plate Weight	1.1	1.1	1.1	2.53	1	1	1									
Columns Weight	35.2	52.4	61.8	129	28	41.75	45.65	22.28	33.26	36.5	19.6	29.1	31.95	16.8	24.9	27.39
Galvanized Weight	2	2.915	3.4285	7.4145	1.635	2.3775	2.5725	1.186	1.735	1.897	1.052	1.527	1.6695	0.912	1.317	1.4415

Technical Specifications of the Polyhedron Light Poles (7m-10.5m)

Description	10.5m - Fix - B	10.5m - Fix - AT	10m - Fix - B	10m - Fix - A	9m - Fix - C	9m - Fix - B2	9m - Fix - B1	9m - Fix - A	9m - Fix - AT	8m - Fix - C	8m - Fix - B	8m - Fix - A	7m - Fix - C	7m - Fix - B	7m - Fix - A
Tower height (m)	10.5	10.5	10	10	9	9	9	9	9	8	8	8	7	7	7
Top section diameter (mm)	80	105	80	100	75	75	90	90	107	70	70	100	70	70	90
Bottom section diameter (mm)	180	210	180	215	180	180	180	200	215	160	180	200	150	160	180
Number of pieces	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Height of columns (m)	5 , 6	5 , 6	4.5 , 6	4.5 , 6	4.5 , 5	3.5 , 6	3.5 , 6	3.5 , 6	3.5 , 6	2.5 , 6	2.5 , 6	2.5 , 6	1.5 , 6	1.5 , 6	1.5 , 6
Thickness (mm)	3 , 3	3 , 3	3 , 3	3 , 3	2 , 3	3 , 3	3 , 3	3 , 3	3 , 3	2 , 3	3 , 3	3 , 3	2 , 3	3 , 3	3 , 3
Dimensions of base plate (mm^3)	400*400*15	400*400*15	400*400*15	400*400*15	400*400*12	400*400*12	400*400*12	400*400*15	400*400*15	400*400*10	400*400*12	400*400*12	300*300*6	300*300*8	300*300*10
PCD (Pitch Circle Diameter)	300*300	300*300	300*300	300*300	300*300	300*300	300*300	300*300	300*300	300*300	300*300	300*300	235*235	235*235	235*235
Wind speed at design basis (Km/H)	100	110	100	110	90	100	100	105	110	90	110	110	90	110	110
Number of Bolts	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Bolt diameter (mm)	28	28	24	24	24	24	24	24	24	24	24	24	20	20	24
Number of faces (Polyhedron)	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Galvanized Weight	6.4285	7.607	6.161	7.2885	4.8665	5.3685	5.652	6.1855	6.7785	4.0845	4.757	5.5495	3.1375	2.59	4.059
Pole + Galvanized Weight	134.9985	159.747	129.381	153.0585	102.1965	112.7385	118.692	129.8955	142.3485	85.7745	99.897	116.5395	65.8875	54.39	85.239

Technical Specifications of the Polyhedron Light Poles (11m-15m)

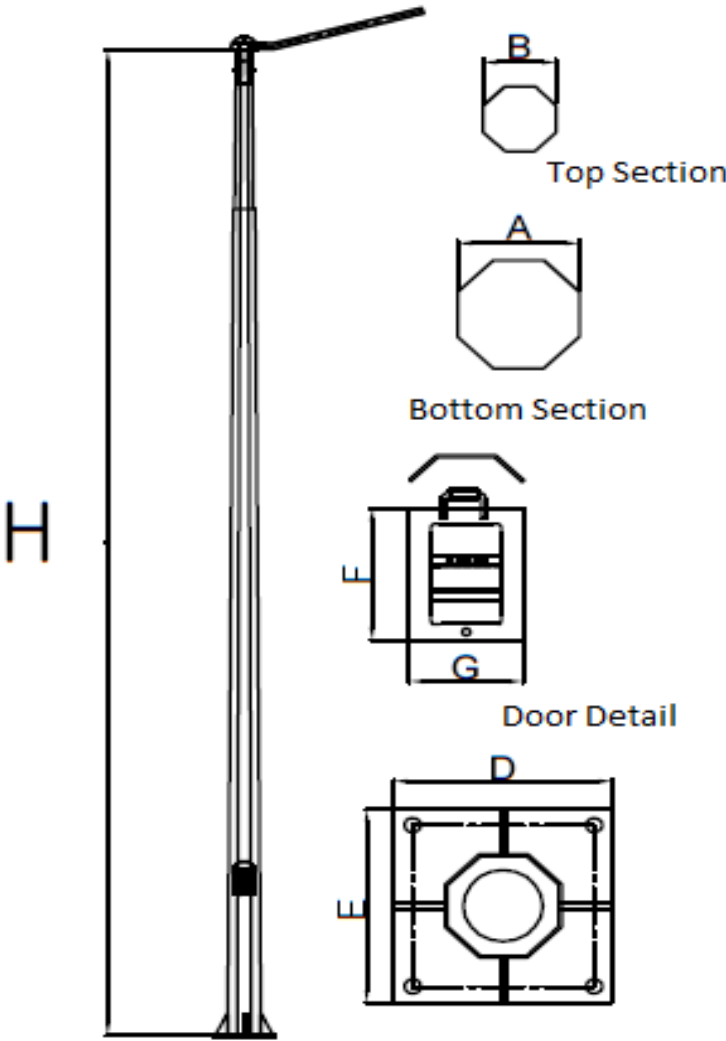
Description	15m - Fix - B	15m - Fix - A	14m - Fix - B	14m - Fix - A	13.5m - Fix - A	13.5m - Fix - AT	12m - Fix - B	12m - Fix - A	12m - Fix - AT	11.5m - Fix - C	11.5m - Fix - B	11.5m - Fix - A	11m - Fix - B	11m - Fix - A
Tower height (m)	15	15	14	14	13.5	13.5	12	12	12	11.5	11.5	11.5	11	11
Top section diameter (mm)	120	130	120	120	105	105	90	105	105	70	100	110	70	110
Bottom section diameter (mm)	300	300	270	270	240	240	200	225	225	180	200	220	180	215
Number of pieces	3	3	3	3	3	3	3	3		2	2	2	2	2
Height of columns (m)	4.5, 6, 6	4.5, 6, 6	3.5, 6, 6	3.5, 6, 6	2.5, 6, 6	2.5, 6, 6	1, 6, 6	1, 6, 6	1, 6, 6	6, 6	6, 6	6, 6	5.5, 6	5.5, 6
Thickness (mm)	3, 3, 3	3, 3, 4	3, 3, 3	3, 3, 4	3, 3, 3	3, 3, 4	3, 3, 3	3, 3, 3	3, 3, 4	3, 3	3, 3	3, 3	3, 3	3, 3
Dimensions of base plate (mm^3)	550*550*20	550*550*20	500*500*20	500*500*20	430*430*20	430*430*20	400*400*15	400*400*15	430*430*20	400*400*15	400*400*15	400*400*15	400*400*15	400*400*15
PCD (Pitch Circle Diameter)	450	450	400	400	330	330	300*300	300*300	330	300*300	300*300	300*300	300*300	300*300
Wind speed at design basis (Km/H)	100	110	100	110	100	110	90	100	110	95	100	110	95	110
Number of Bolts	6	6	6	6	6	6	4	4	6	4	4	4	4	4
Bolt diameter (mm)	28	28	25	25	25	25	28	28	24	28	28	28	28	28
Number of faces (Polyhedron)	12	12	8	8	8	8	8	8	8	8	8	8	8	8
Total Weight	315.294	361.347	278.46	315.525	200.844	259.9485	165.3645	186.354	227.0415	141.288	165.8895	179.823	135.7755	171.3915

Technical Specifications of the Polyhedron Light Poles Foundation

Technical Specifications of the Light Poles Foundation																
PCD	Total weight of the Rebars (Kg)	Weight of the Rebars (Kg)	Total weight of the Bolts (Kg)	Number of Bolts	Thread diameter (mm)	Bolt diameter (mm)	Total weight of the Foundation (Kg)	Concrete volume (m3)	Crown dimensions (m)			Footing dimensions (m)			Foundation Specification Code	No.
									Height	Width	Length	Height	Width	Length		
157*157	2.56	0.63	1.93	4	12	14	346	0.14	0	0	0	0.4	0.6	0.6	3 - 4 m - Fix	1
235*235	15.75	5.1	10.65	4	22	24	982	0.41	0.375	0.54	0.54	0.3	1	1	5 - 7 m - Fix	2
300*300	20	5.68	14.32	4	22	24	1,200	0.50	0.4	0.5	0.5	0.4	1	1	8 - 10 m - Fix	3
300*300	29.42	6.24	23.18	4	27	28	1,470	0.61	0.45	0.5	0.5	0.5	1	1	10.5 - 12 m - Fix	4
330	40	12.3	27.7	6	24	25	1,814	0.76	0.5	0.6	0.6	0.4	1.2	1.2	13.5 m - Fix	5
400	80	52.3	27.7	6	24	25	2,160	0.90	0.5	0.6	0.6	0.5	1.2	1.2	14 m - Fix	6
450	95	60.2	34.8	6	27	28	2,498	1.04	0.4	0.7	0.7	0.5	1.3	1.3	15 m - Fix	7

Standards

DIN 17100	STEELS QUALITY STANDARD
EN440-DIN8559-AWS/ASM	Welding Wire Standard
ASCE SEL 7-10,UBC 97,AASHTO,BS 5649	Design and Construction Standard
ASTM A36/A36M,ASTM A575,ASTM A576,ANSI C136.3	National Building Regulations
ASTM A123/A123M,ASTMA153/A153M,FS TT-P-38,FS TT-P-645	Coverage Standard
ISO262-ISO263 ISO261	SCREW THREADS Standard
DINEN10255(2440)-JIS G3444-BS1387M-DIN2349-JIS G3445-BS1387L	Tube Standard



Decorative Street Lighting Pole

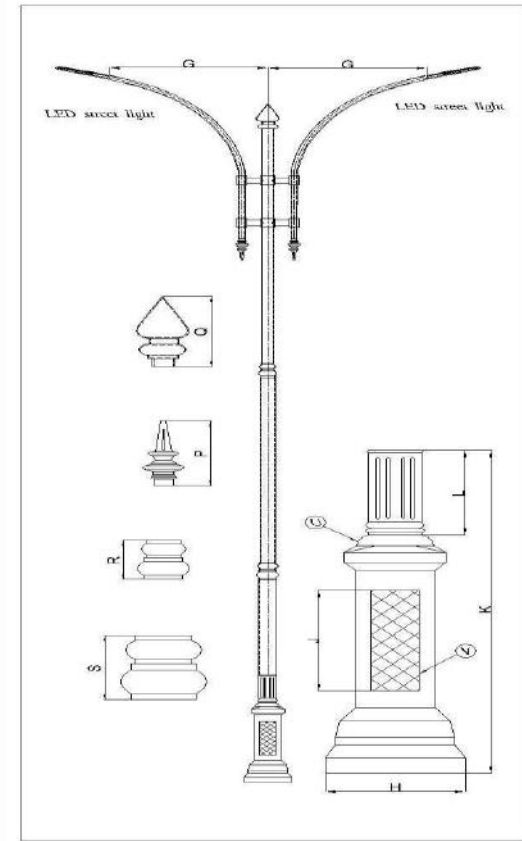


This product is used with the arm to install a variety of streetlights for street lighting.

In order to select the appropriate product, after selecting the appropriate arm and with regard to the effective height of the arm, the urban furniture and street design, the Lighting Pole should be selected.

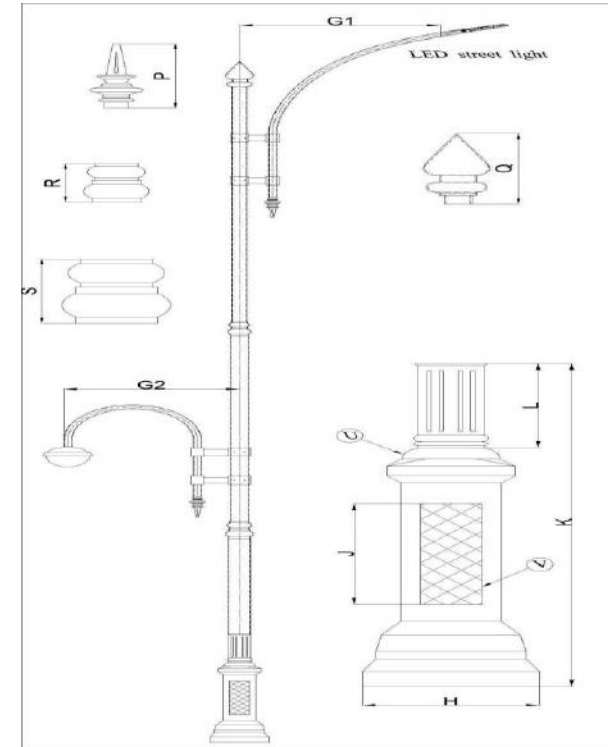
Selecting the proper coverage for this product is done according to climatic conditions as well as conditions of urban furniture and street design.

	B				
Description	12m Tayeb	11m Tayeb	10m Tayeb	9m Tayeb	8m Tayeb
Height of H	12	11	10	9	8
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: Z (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: W	34	34	29	29	29
Base tubes diameter	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168
Length of base tubes (m)	3 , 3 , 4	3 , 3 , 4	3 , 3 , 3	2 , 3 , 3	2 , 2 , 3
Tubes Thickness	3 , 3 , 4	3 , 3 , 4	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60 - 76	60 - 76	60	60	60
Arm length: Y	3500	3500	2500	1500	1000
Length of H (mm)	500	500	500	50	500
Length of K (mm)	1230	1230	1230	1230	1230
Length of L (mm)	580	580	580	580	580
Length of J (mm)	590	590	590	590	590
Length of Q (mm)	600	600	600	600	600
Length of P (mm)	345	345	345	345	345
Length of R (mm)	310	310	310	310	310
Length of S (mm)	300	300	300	300	300
Thickness of the piece U	3	3	3	3	3
Thickness of the piece V	5	5	5	5	5



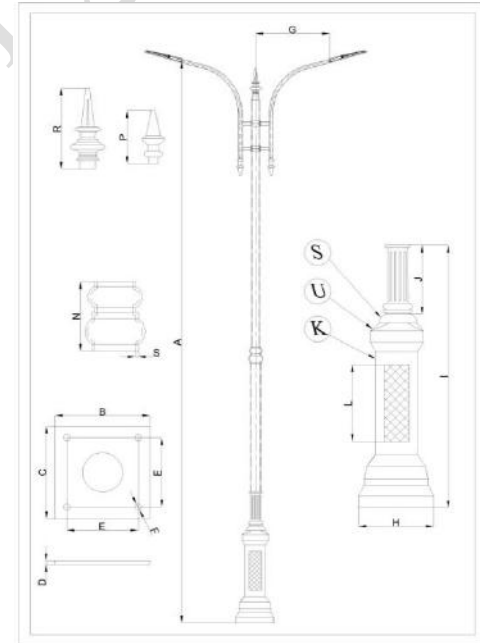
“Toos” 8m-12m Decorative Double Arm Lighting Pole (Street & Garden Arms)

	B				
Description	12m Toos	11m Toos	10m Toos	9m Toos	8m Toos
Street light Height: H	12	11	10	9	8
Garden light Height: A2	5.5	5.5	5	4.5	4
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: Z (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: W	34	34	29	29	29
Base tubes diameter	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168
Length of base tubes (m)	3 , 3 , 4	3 , 3 , 4	3 , 3 , 3	2 , 3 , 3	2 , 2 , 3
Tubes Thickness	3 , 3 , 4	3 , 3 , 4	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60	60	60	60	60
Arm length: G1	3500	3500	2500	1500	1000
Arm length: G2	2000	2000	1500	1500	1000
Length of K (mm)	1230	1230	1230	1230	1230
Length of L (mm)	580	580	580	580	580
Length of J (mm)	360	360	360	360	360
Length of Q (mm)	600	600	600	600	600
Length of P (mm)	345	345	345	345	345
Length of R (mm)	310	310	310	310	310
Length of S (mm)	300	300	300	300	300
Thickness of the piece U	3	3	3	3	3



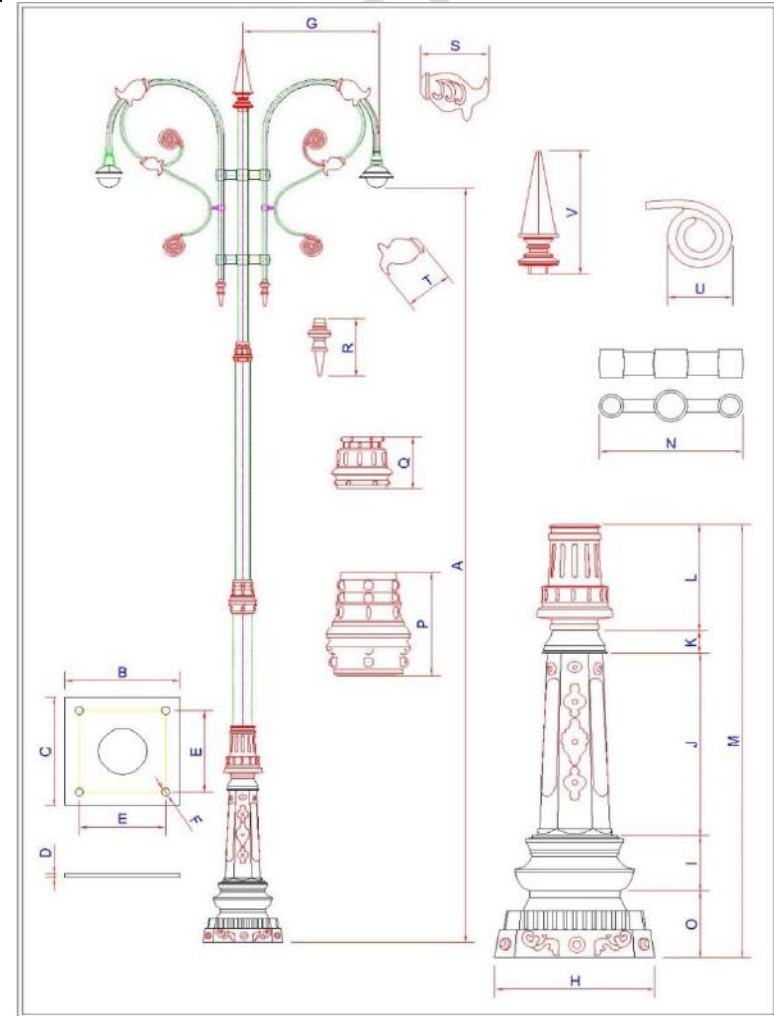
“Gahar” 5m-7m Decorative Single or Double Arm Lighting Pole

Description	7m Gohar	6m Gohar	5m Gohar
Height of A	7	6	5
Gussets plate	90x90x06	90x90x06	90x90x06
Dimensions of base flange (D x E x C)	300 x 300 x 12	300 x 300 x 12	300 x 300 x 12
PCD: Z	235 x 235	235 x 235	235 x 235
(Pitch Circle Diameter)	29	29	29
Flange hole: W	90 , 114	90 , 114	90 , 114
Base tubes diameter	3000 , 3000	3000 , 3000	2000 , 3000
Length of base tubes (m)	3.3	3 , 3	3 , 3
Tubes Thickness	42	42	42
Arms diameter	G=1500 Extended: 2000	G=1000 Extended: 1500	G=600 Extended: 1000
Arm length: G			
Tube adapter Ø90 to Ø60	345		
Length of H (mm)		1275	
Length of I (mm)	390		
Length of J (mm)	3		
Thickness of the piece K	390		
Length of L (mm)	250		
Length of N (mm)	220		
Length of P (mm)	340		
Length of R (mm)	5		
Length of S (mm)	250		

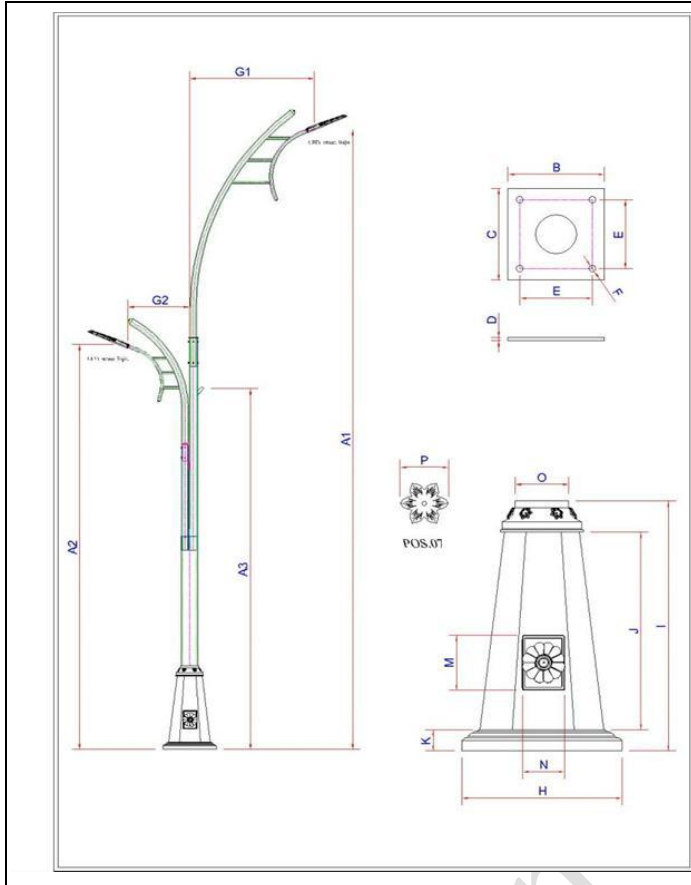


“Homa2” 9m-12m Decorative Three-Arms Lighting Pole

Description	12m Homa2	11m Homa2	10m Homa2	8m Homa2
Height of A	12	11	10	8
Gussets plate	150*90*12	150*90*12	150*90*12	150*90*12
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: Z (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: W	32	32	32	32
Base tubes diameter	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219
Length of base tubes (m)	4000 , 3000 , 4000	3000 , 3000 , 4000	2000 , 3000 , 3000	2000 , 3000 , 3000
Tubes Thickness	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60	60	60	60
Arm length: G	1500	1500	1500	1500
Length of H (mm)	900	900	900	900
Length of I (mm)	410	410	410	410
Length of J (mm)	1090	1090	1090	1090
Thickness of the piece K	136	136	136	136
Length of L (mm)	653	653	653	653
Length of M (mm)	2680	2680	2680	2680
Length of N (mm)	590	590	590	590
Length of O (mm)	400	400	400	400
Length of P (mm)	360	360	360	360
Length of Q (mm)	310	310	310	310
Length of R(mm)	344	344	344	344
Length of S (mm)	400	400	400	400
Length of T (mm)	483	483	483	483
Length of U (mm)	Ø200	Ø200	Ø200	Ø200



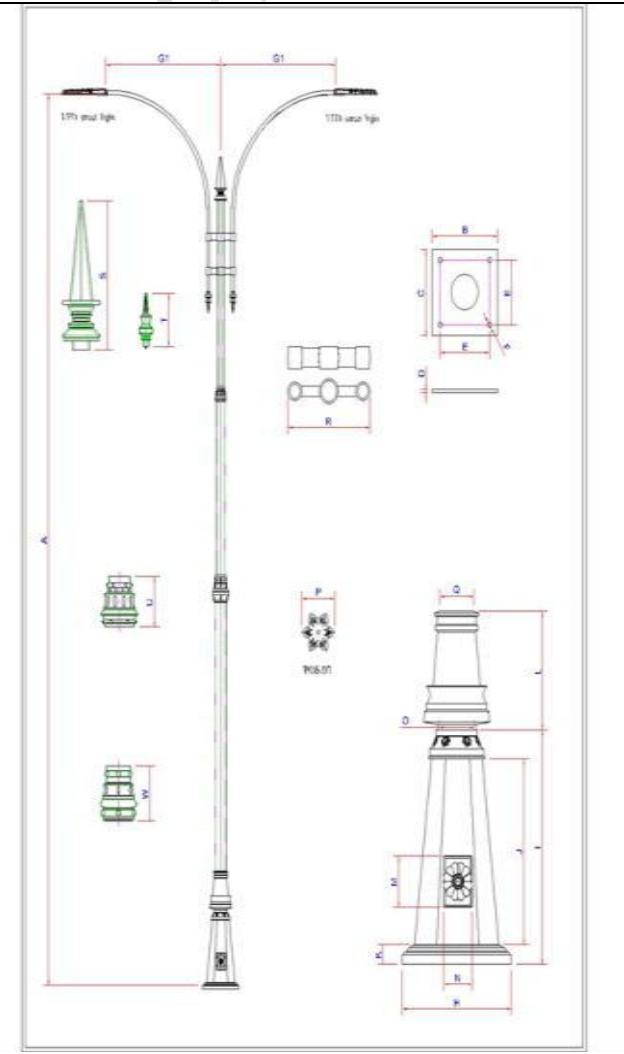
Kosar” 10m-11m Decorative Double Arm Lighting Pole



11m Kosar	10m Kosar	Description
11	9	Height of A1
5.5	4.5	Height of A2
4.2	3.8	Height of A3
150*90*12	150*90*12	Gussets plate
400X400X15	400X400X12	Dimensions of base flange (D x E x
235X235	235X235	PCD: E
29	29	Flange hole: F
90 , 114, 219	90 , 114, 219	Base tubes diameter
4000 , 4000 , 3000	4000 , 4000 , 3000	Length of base tubes (m)
3 , 3 , 3	3 , 3 , 3	Tubes Thickness
42	42	Arms diameter
1200	1200	Arm length: G1
1000	1000	Arm length: G2
718	718	Length of H (mm)
1175	1175	Length of I (mm)
935	935	Length of J (mm)
100	100	Length of K (mm)
260	260	Length of M (mm)
190	190	Length of N (mm)
240	240	Length of O (mm)
65	65	Length of P (mm)

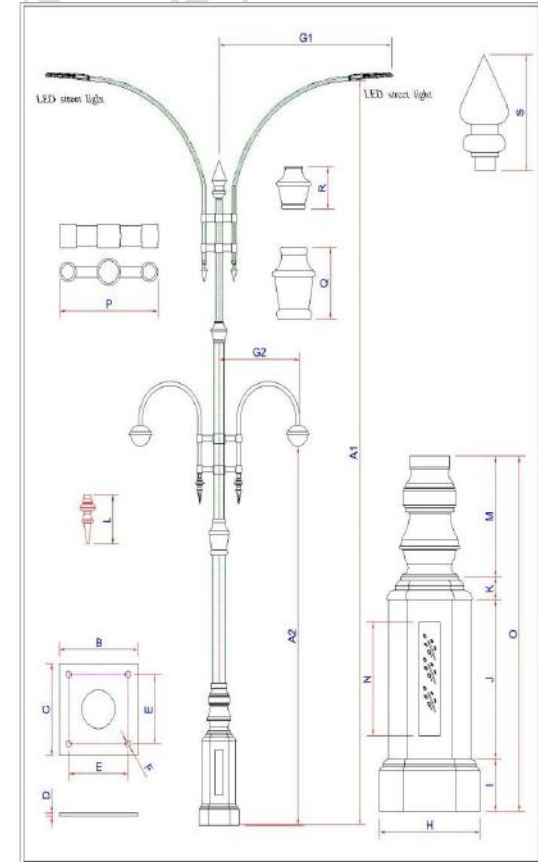
“A’bid” 9m-12m Fantasy Double Arm Lighting Pole

Description	12M A'bid	11M A'bid	10M A'bid	9M A'bid
Height of A	12	11	10	9
Gussets plate	150*90*12	150*90*12	150*90*12	150*90*12
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: E (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: W	29	29	29	29
Base tubes diameter	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219
Length of base tubes (m)	4000 , 3000 , 4000	3000 , 3000 , 4000	3000 , 3000 , 3000	2000 , 3000 , 3000
Tubes Thickness	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60	60	60	60
Arm length: G1	1500	1500	1500	1500
Length of H (mm)	718	718	718	718
Length of I (mm)	1175	1175	1175	1175
Length of J (mm)	935	935	935	935
Length of K(mm)	100	100	100	100
Length of L (mm)	635	635	635	635
Length of M (mm)	260	260	260	260
Length of N (mm)	190	190	190	190
Length of O (mm)	240	240	240	240
Length of P (mm)	65	65	65	65
Length of Q (mm)	222	222	222	222
Length of R(mm)	570	570	570	570
Length of S (mm)	650	650	650	650
Length of T (mm)	340	340	340	340
Length of U (mm)	250	250	250	250
Length of W (mm)	350	350	350	350



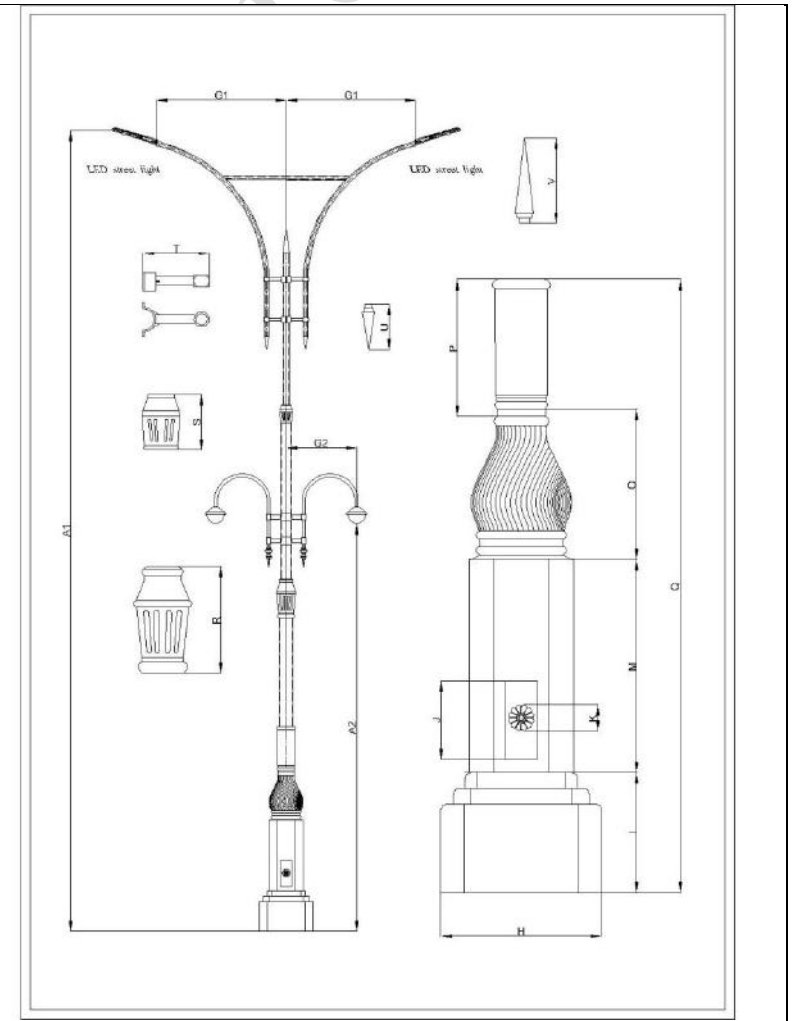
“Shahsavar” 9m-12m Fantasy Lighting Pole

Description	12M Shahsavar	11M Shahsavar	10M Shahsavar	9M Shahsavar
Height of A1	12	11	10	9
Height of A2	5	4.5	4	3.5
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: E (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: F	29	29	29	29
Base tubes diameter	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219	114 , 168 , 219
Length of base tubes (m)	4000 , 3000 , 4000	3000 , 3000 , 4000	3000 , 3000 , 3000	2000 , 3000 , 3000
Tubes Thickness	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60	60	60	60
Arm length: G1	1500	1500	1500	1500
Arm length: G2	1500	1500	1500	1500
Length of H (mm)	660	660	660	660
Length of I (mm)	295	295	295	295
Length of J (mm)	895	895	895	895
Length of K (mm)	142	142	142	142
Length of L (mm)	345	345	345	345
Length of M (mm)	700	700	700	700
Length of N (mm)	640	640	640	640
Length of O (mm)	2000	2000	2000	2000
Length of P (mm)	570	570	570	570
Length of Q (mm)	500	500	500	500
Length of R (mm)	300	300	300	300
Length of S (mm)	600	600	600	600



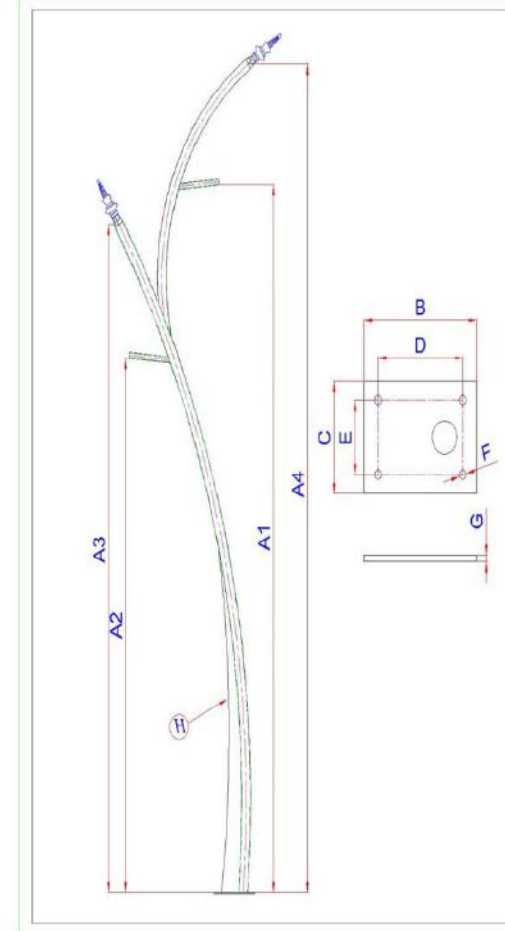
“Sindbad” 9m-12m Fantasy Lighting Pole

Description	12M Sindbad	11M Sindbad	10M Sindbad	9M Sindbad
Height of A1	12000	11000	10000	9000
Height of A2	3500	3500	3500	3500
Dimensions of base flange (D x E x C)	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15	400 x 400 x 15
PCD: E (Pitch Circle Diameter)	300 x 300	300 x 300	300 x 300	300 x 300
Flange hole: F	32	32	29	29
Base tubes diameter	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168	114 , 141 , 168
Length of base tubes (m)	4000 , 3000 , 4000	4000 , 3000 , 3000	3000 , 3000 , 3000	2000 , 2000 , 3000
Tubes Thickness	3 , 3 , 4	3 , 3 , 3	3 , 3 , 3	3 , 3 , 3
Arms diameter	60 - 76	60	60	60
Arm length: G1	3500	2500	1500	1000
Arm length: G2	500	500	500	500
Length of H (mm)	670	670	670	670
Length of I (mm)	450	450	450	450
Length of J (mm)	292	292	292	292
Length of K (mm)	100	100	100	100
Length of M (mm)	850	850	850	850
Length of O (mm)	680	680	680	680
Length of P (mm)	500	500	500	500
Length of Q (mm)	2450	2450	2450	2450
Length of R (mm)	500	500	500	500
Length of S (mm)	462	462	462	462
Length of T (mm)	360	360	360	360
Length of U (mm)				
Length of V (mm)	735	735	735	735

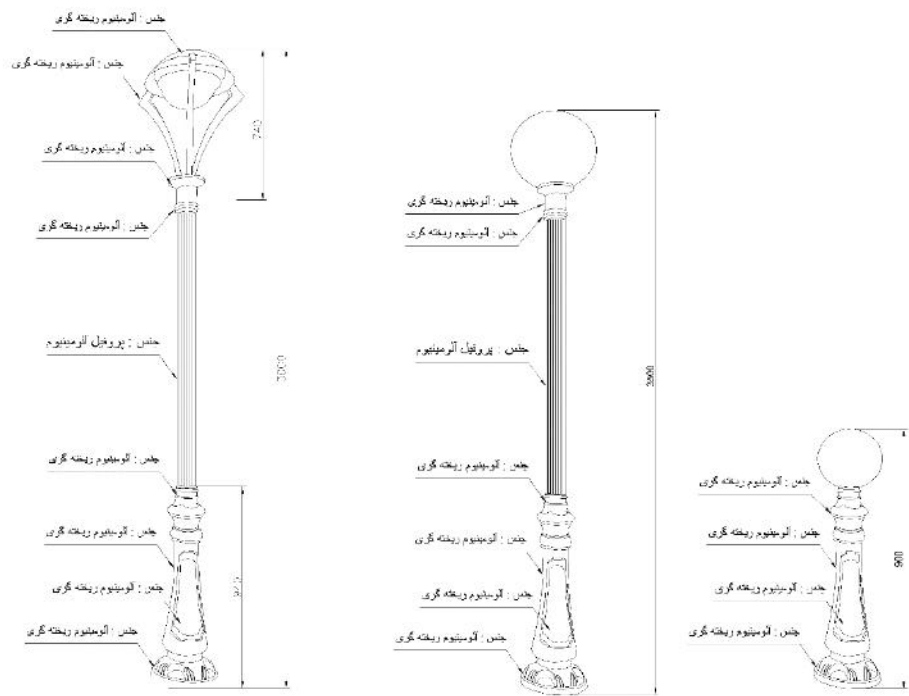


“Lajvar2” 9m-12m Fantasy Lighting Pole

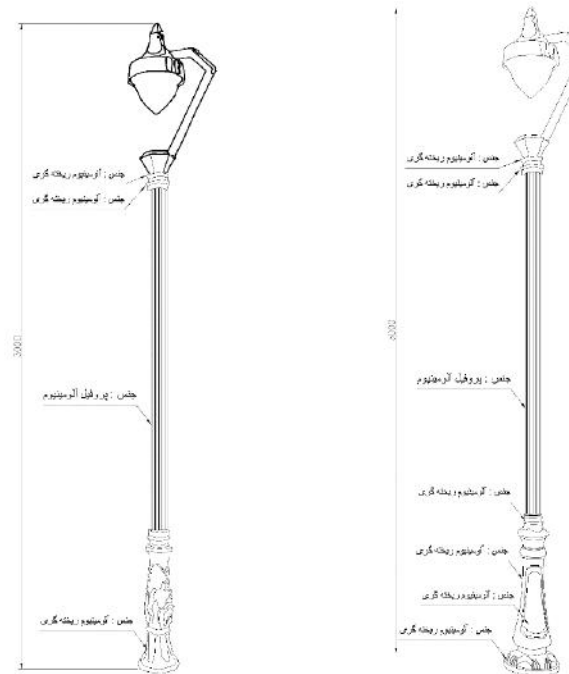
Height of A1	5.3	3.7	2.7
Height of A2	4	2.8	2.3
Height of A3	5	2.5	2.5
Height of A4	6	4	3
Dimensions of base flange (B x C x G)	300*200*8	300*200*8	300*200*8
PCD: E x D (Pitch Circle Diameter)	157*157	157*157	157*157
Flange hole: F	Ø16	Ø16	Ø16
Base tubes diameter	Ø90	Ø90	Ø90
Tubes Thickness	3MM	3MM	3MM
Arms diameter	Ø 42	Ø 42	Ø 42



“Zagros” Lighting Pole / Aluminum profile thickness: 2mm / Profile diameter: 85mm

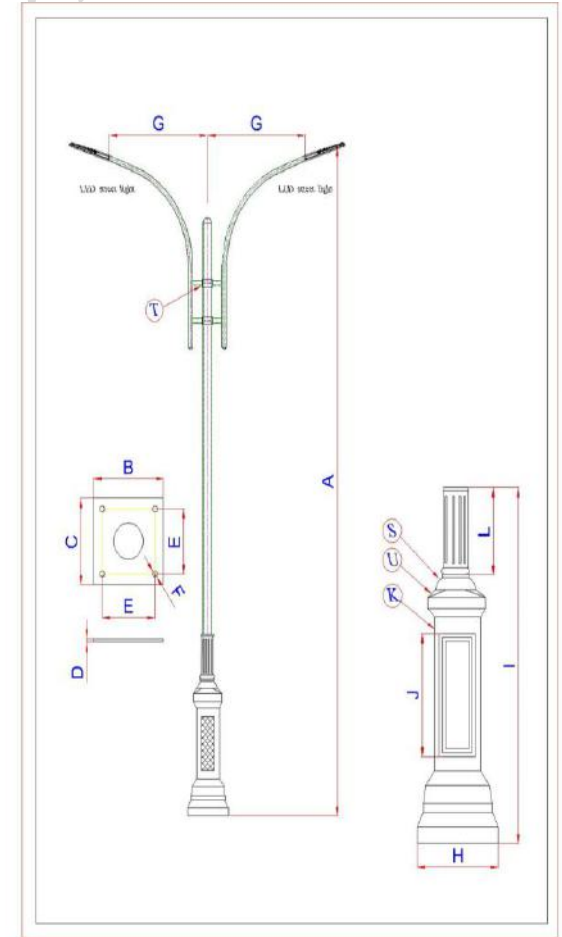


“Alborz” Lighting Pole / Aluminum profile thickness: 2mm / Profile diameter: 73mm



“Gohar” 3m-4m Decorative Double Arm Lighting Pole

Description	Double Arm			Single Arm		
	4m Gohar	3.5m Gohar	3m Gohar	4m Gohar	3.5m Gohar	3m Gohar
Height of A	4	3.5	3	4	3.5	3
Dimensions of base flange (B x C x D)	250 x 250 x 10	250 x 250 x 10	250 x 250 x 10	250 x 250 x 10	250 x 250 x 10	250 x 250 x 10
PCD: E (Pitch Circle Diameter)	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200	200 x 200
Flange hole: F	21	21	21	21	21	21
Base tubes diameter	90	90	90	90	90	90
Length of base tubes (m)	4000	3500	3000	4000	3500	3000
Tubes Thickness	2	2	2	2	2	2
Arms diameter	Ø33	Ø33	Ø33	Ø33	Ø33	Ø33
Arm length: G	1000	1000	1000	1000	1000	1000
Length of H (mm)	236			236		
Dimensions of J (mm)	296X105X8			296X105X8		
Thickness of the piece K	2			2		
Dimensions of U (mm)	200X200X100			200X200X100		
Dimensions of S (mm)	Ø160XØ100X40			Ø165XØ100X40		
Length of I (mm)	970					



Flagpole Tower



These products have a wide variety of dimensions and functional characteristics that are divided into two types: manual movable and electric movable.

An electric type is used for high heights that also has the ability to install an Anti-Twist system (for the flag)

Technical Specifications of the Flagpole Tower

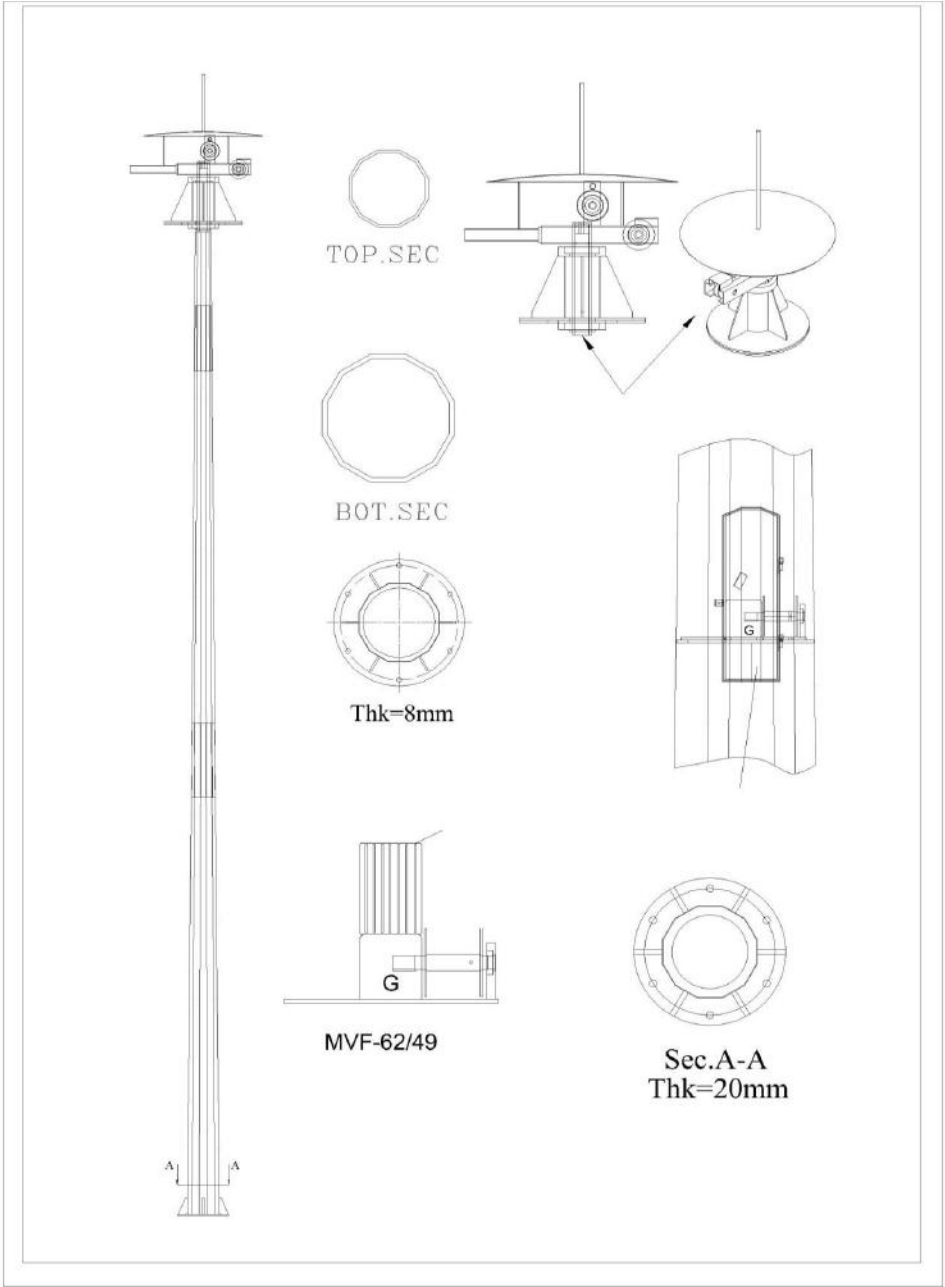
Technical Specifications of the Flagpole Tower											
Description	70m - FT	60m - FT	50m - FT	40m - FT	30m - FT	25m - FT	21m - FT	18m - FT	15m - FT	12m - FT	10m - FT
Tower height (m)	70	60	50	40	30	25	21	18	15	12	10
Top section diameter (mm)	270	180	180	185	185	190	180	186	185	180	186
Bottom section diameter (mm)	1200	940	940	700	628	590	485	380	380	375	280
Number of pieces	16	12	10	8	6	5	4	5	3	3	2
Height of columns (m)	6,6,6,6,6,6,6,6,6,6,6,6,6,6,6,6	5,6,6,6,6,6,6,6,6,6,5,5,6	5,6,6,6,6,6,6,6,6,6,6,6,6,6	3,5,6,6,6,6,6,6,6,6,6,6,6,6	4,4,6,6,6,6,6,6,6,6,6,6,6	4,4,6,6,6,6,6,6,6,6,6,6	6,6,6,6,6,6,6,6,6,6,6,6	2,4,6,6,6,6,6,6,6,6,6,6	4,7,6,6,6,6,6,6,6,6,6	1,7,6,6,6,6,6,6,6,6,6	4,5,6,6,6,6,6,6,6,6,6
Thickness (mm)	3,4,4,4,4,4,5,5,6,6,8,8,8,10,10,12	3,3,3,3,4,5,5,6,6,8,8,10,10	3,3,3,3,4,5,5,6,6,6,6,8	3,3,3,3,4,4,5,5	3,3,3,4,4,5	3,3,3,4,5	3,3,3,4	3,3,3,3	3,3,3	3,3	3,3
Dimensions of base plate (mm ³)	ø1600 x 40	ø1400 x 40	ø1350 x 40	ø1000 x 30	ø970 x 30	ø800 x 30	ø752 x 30	ø615x 20	ø615 x 20	ø600 x 20	ø500 x 20
Access door dimensions (mm ²)	900 x 290										700 x 270
Wind speed at design basis (Km/h)	110										
Number of Bolts	36	24	16	18	12	12	12	6	6	6	6
PCD (Pitch Circle Diameter)	1400	1250	1200	895	870	720	672	534	534	516	420
Number of faces (Polyhedron)	18	12	16	12	12	12	12	12	12	12	8
Gearbox type	MVF 49										
Wire rope diameter (mm)	10	8	8	8	8	6	6	6	6	6	6

Technical Specifications of the Flagpole Tower Foundation

Technical Specifications of the Flagpole Tower Foundation

PCD	Total weight of the Rebars (Kg)	Weight of the Rebars (Kg)	Total weight of the Bolts (Kg)	Number of Bolts	Thread diameter (mm)	Bolt diameter (mm)	Total weight of the Foundation (Kg)	Concrete volume (m3)	Crown dimensions (m)			Footing dimensions (m)			Foundation Specification Code	No.
									Height	Width	Length	Height	Width	Length		
420	32	6	26	6	22	24	1,788	0.75	0.5	0.7	0.7	0.5	1	1	10 m - FT	1
516	65	39	26	6	22	24	3,288	1.37	0.5	0.7	0.7	0.5	1.5	1.5	12m - FT	2
534	65	39	26	6	22	24	4,004	1.67	0.65	0.7	0.7	0.6	1.5	1.5	15 m - FT	3
534	158	100	58	6	27	28	6,202	2.58	1	0.8	0.8	0.6	1.8	1.8	18 m - FT	4
672	219	103	116	12	27	28	8,160	3.40	1	1	1	0.6	2	2	21 m - FT	5
720	340	188	152	12	30	32	12,979	5.41	0.8	1	1	0.8	2.4	2.4	25 m - FT	6
870	437	285	152	12	30	32	17,510	7.30	0.8	1.2	1.2	0.8	2.4	3.2	30 m - FT	7
895	387	213	174	18	27	28	19,987	8.33	0.8	1.5	1.5	0.8	2.4	3.4	40 m - FT	8
1200	694	210	484	16	33	36	29,866	12.44	1.7	1.6	1.6	0.85	2.8	3.4	50 m - FT	9
1250	1418	330	1088	24	36	40	56,074	23.36	3.4	1.8	1.8	0.7	4.2	4.2	60 m - FT	10
1400	2228	500	1728	36	36	40	82,500	34.38	3.5	2.5	2.5	0.5	5	5	70 m - FT	11

Flagpole Tower Details





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