

Hulas Infra Steel Poles



Innovators in Pole Manufacturing

#JamaanaInfraKo

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Pioneers of Pole Manufacturing and Infrastructure Solutions

Since our inception, Hulas Infra has been at the forefront of innovation and quality in the pole manufacturing sector. Our commitment to delivering superior pole products spans across various applications, focusing on strength, design, and environmental stewardship.

Introducing Hulas Infra Swaged Poles

The Perfect Blend of Durability and Design

Hulas Infra's Swaged Poles are precision-engineered to support streetlights, banners, and signage, embodying the perfect blend of durability and design. Our unique swaging process enhances the poles' uniformity and load-bearing capabilities, setting new standards in the industry.

Advantages



Zero maintenance

Zero maintenance and high resilience against environmental factors.



Customization

Customization options to fulfill the unique requirements of diverse projects.



Superior strength

Superior strength-to-weight ratio compared to traditional concrete poles.



Hulas Infra Swaged Poles | Specifications

Overall Height 7.0m Height Above Ground 5.75m Planting Depth 1.25m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	4.0m	1.5m	1.5m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3 mm	H2 mm	H1 mm	Wt. Kg	
HI-410-SP1	114.3 3.65	88.9 3.25	76.1 3.25	62	
HI-410-SP2	114.3 4.50	88.9 4.05	76.1 3.25	73	
HI-410-SP3	114.3 5.40	88.9 4.85	76.1 3.25	85	

Overall Height 7.5m Height Above Ground 6.25m Planting Depth 1.25m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	4.5m	1.5m	1.5m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3 mm	H2 mm	H1 mm	Wt. Kg	
HI-410-SP4	114.3 3.65	88.9 3.25	76.1 3.25	67	
HI-410-SP5	114.3 4.50	88.9 4.05	76.1 3.25	79	
HI-410-SP6	114.3 5.40	88.9 4.85	76.1 3.25	93	
HI-410-SP7	139.7 4.50	114.3 3.65	88.9 3.25	97	
HI-410-SP8	139.7 4.85	114.3 3.65	88.9 3.25	103	
HI-410-SP9	139.7 5.40	114.3 3.65	88.9 3.25	110	

Overall Height 8.0m Height Above Ground 6.5m Planting Depth 1.5m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	4.5m	1.75m	1.75m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3 mm	H2 mm	H1 mm	Wt. Kg	
HI-410-SP10	114.3 3.65	88.9 3.25	76.1 3.25	70	
HI-410-SP11	114.3 4.50	88.9 4.05	76.1 3.25	83	
HI-410-SP12	114.3 5.40	88.9 4.85	76.1 3.25	97	
HI-410-SP13	139.7 4.50	114.3 3.65	88.9 3.25	101	
HI-410-SP14	139.7 4.85	114.3 4.50	88.9 3.25	111	
HI-410-SP15	139.7 5.40	114.3 4.50	88.9 3.25	119	

Overall Height 8.5m Height Above Ground 7.0m Planting Depth 1.5m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.0m	1.75m	1.75m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3 mm	H2 mm	H1 mm	Wt. Kg	
HI-410-SP16	114.3 3.65	88.9 3.25	76.1 3.25	75	
HI-410-SP17	114.3 4.50	88.9 4.05	76.1 3.25	89	
HI-410-SP18	114.3 5.40	88.9 4.85	76.1 3.25	104	
HI-410-SP19	139.7 4.50	114.3 3.65	88.9 3.25	109	
HI-410-SP20	139.7 4.85	114.3 3.65	88.9 3.25	115	
HI-410-SP21	139.7 5.40	114.3 4.50	88.9 3.25	129	
HI-410-SP22	165.1 4.50	139.7 4.50	114.3 3.65	141	
HI-410-SP23	165.1 4.85	139.7 4.50	114.3 3.65	148	
HI-410-SP24	165.1 5.40	139.7 4.50	114.3 3.65	158	

Overall Height 9.0m Height Above Ground 7.5m Planting Depth 1.5m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.0m	2.0m	2.0m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HI-410-SP25	114.3 3.65	88.9 3.25	76.1 3.25	78	
HI-410-SP26	114.3 4.50	88.9 4.05	76.1 3.25	92	
HI-410-SP27	114.3 5.40	88.9 4.85	76.1 3.25	108	
HI-410-SP28	139.7 4.50	114.3 3.65	88.9 3.25	113	
HI-410-SP29	139.7 4.85	114.3 4.50	88.9 3.25	125	
HI-410-SP30	139.7 5.40	114.3 4.50	88.9 3.25	133	
HI-410-SP31	165.1 4.50	139.7 4.50	114.3 3.65	147	
HI-410-SP32	165.1 4.85	139.7 4.50	114.3 3.65	154	
HI-410-SP33	165.1 5.40	139.7 4.50	114.3 3.65	164	

Overall Height 9.5m Height Above Ground 7.7m Planting Depth 1.8m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.0m	2.25m	2.25m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HI-410-SP34	139.7 4.50	114.3 4.50	88.9 3.25	122	
HI-410-SP35	139.7 4.85	114.3 4.50	88.9 3.25	129	
HI-410-SP36	139.7 5.40	114.3 4.50	88.9 3.25	137	
HI-410-SP37	165.1 4.50	139.7 4.50	114.3 3.65	153	
HI-410-SP38	165.1 4.85	139.7 4.50	114.3 3.65	160	
HI-410-SP39	165.1 5.40	139.7 4.50	114.3 3.65	170	

Overall Height 10.0m Height Above Ground 8.2m Planting Depth 1.8m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.2m	2.4m	2.4m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HP-410-SP40	139.7 4.50	114.3 4.50	88.9 3.25	128	
HP-410-SP41	139.7 4.85	114.3 4.50	88.9 3.25	135	
HP-410-SP42	139.7 5.40	114.3 4.50	88.9 3.25	144	
HP-410-SP43	165.1 4.50	139.7 4.50	114.3 3.65	160	
HP-410-SP44	165.1 4.85	139.7 4.50	114.3 3.65	168	
HP-410-SP45	165.1 5.40	139.7 4.50	114.3 3.65	178	
HP-410-SP46	193.7 4.85	165.1 4.50	139.7 4.50	208	
HP-410-SP47	193.7 5.40	165.1 4.50	139.7 4.50	221	
HP-410-SP48	193.7 5.90	165.1 4.50	139.7 4.50	233	

Overall Height 11.0m Height Above Ground 9.2m Planting Depth 1.8m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.6m	2.7m	2.7m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HI-410-SP49	139.7 4.50	144.3 4.50	88.9 3.25	140	
HI-410-SP50	139.7 4.85	114.3 4.50	88.9 3.25	147	
HI-410-SP51	139.7 5.40	114.3 5.40	88.9 3.25	164	
HI-410-SP52	165.1 4.50	139.7 4.50	114.3 3.65	175	
HI-410-SP53	165.1 4.85	139.7 4.50	114.3 3.65	183	
HI-410-SP54	165.1 5.40	139.7 4.50	114.3 3.65	194	
HI-410-SP55	193.7 4.85	165.1 4.50	139.7 4.50	227	
HI-410-SP56	193.7 5.40	165.1 4.50	139.7 4.50	241	
HI-410-SP57	193.7 5.90	165.1 4.85	139.7 4.50	256	

Overall Height 12.0m Height Above Ground 10.0m Planting Depth 2.0m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.8m	3.1m	3.1m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HI-410-SP58	165.1 4.50	139.7 4.50	114.3 3.65	186	
HI-410-SP59	165.1 4.85	139.7 4.50	114.3 3.65	197	
HI-410-SP60	165.1 5.40	139.7 4.50	114.3 3.65	208	
HI-410-SP61	193.7 4.85	165.1 4.50	139.7 4.50	245	
HI-410-SP62	193.7 5.40	165.1 4.50	139.7 4.50	259	
HI-410-SP63	193.7 5.90	165.1 4.85	139.7 4.50	277	
HI-410-SP64	219.1 4.85	193.7 4.85	165.1 4.50	227	
HI-410-SP65	219.1 5.60	193.7 4.85	165.1 4.50	313	
HI-410-SP66	219.1 5.90	193.7 4.85	165.1 4.50	322	

Overall Height 13.0m Height Above Ground 11.0m Planting Depth 2.0m	BOTTOM	MIDDLE SECTION HEIGHTS	TOP		
	H3	H2	H1		
	5.8m	3.6m	3.6m	OUTSIDE DIAMETER SECTION THICKNESS	
	H3	H2	H1	Wt.	
mm		mm	mm	Kg	
HI-410-SP67	193.7 4.85	165.1 4.50	139.7 4.50	261	
HI-410-SP68	193.7 5.40	165.1 4.85	139.7 4.50	281	
HI-410-SP69	193.7 5.90	165.1 5.40	139.7 4.50	302	
HI-410-SP70	219.1 4.85	193.7 4.85	165.1 4.50	312	
HI-410-SP71	219.1 5.60	193.7 4.85	165.1 4.50	333	
HI-410-SP72	219.1 5.90	193.7 4.85	165.1 4.50	343	

Overall Height 14.5m Height Above Ground 12.5m Planting Depth 2.0m	BOTTOM	MIDDLE	TOP		
	SECTION HEIGHTS				
	H3	H2	H1		
	6.5m	4.0m	4.0m	OUTSIDE DIAMETER SECTION THICKNESS	
H3	H2	H1	Wt.		
mm		mm	mm	Kg	
HI-410-SP73	193.7 5.40	165.1 4.85	139.7 4.50	312	
HI-410-SP74	193.7 5.90	165.1 5.40	139.7 4.50	336	
HI-410-SP75	219.1 5.60	193.7 4.85	165.1 4.50	370	
HI-410-SP76	219.1 5.90	193.7 4.85	165.1 4.50	380	

Overall Height 16.0m Height Above Ground 13.7m Planting Depth 2.3m	BOTTOM	MIDDLE	TOP		
	SECTION HEIGHTS				
	H3	H2	H1		
	7.0m	4.5m	4.5m	OUTSIDE DIAMETER SECTION THICKNESS	
H3	H2	H1	Wt.		
mm		mm	mm	Kg	
HI-410-SP77	193.7 5.40	165.1 4.85	139.7 4.50	341	
HI-410-SP78	193.7 5.90	165.1 5.40	139.7 4.50	367	
HI-410-SP79	219.1 5.60	193.7 4.85	165.1 4.50	405	
HI-410-SP80	219.1 5.90	193.7 4.85	165.1 4.50	416	



Introducing

Hulas Infra Telescopic Poles

Adjustable and Versatile for Dynamic Applications

Our Telescopic Poles are synonymous with versatility and adjustability. Designed by Hulas Infra, these poles can be seamlessly adjusted to different heights, catering to applications that demand flexibility and space efficiency.

Advantages



Height adjustments

Simple height adjustments to suit various installation needs.



Economical

Economical shipping and handling due to their telescopic nature.

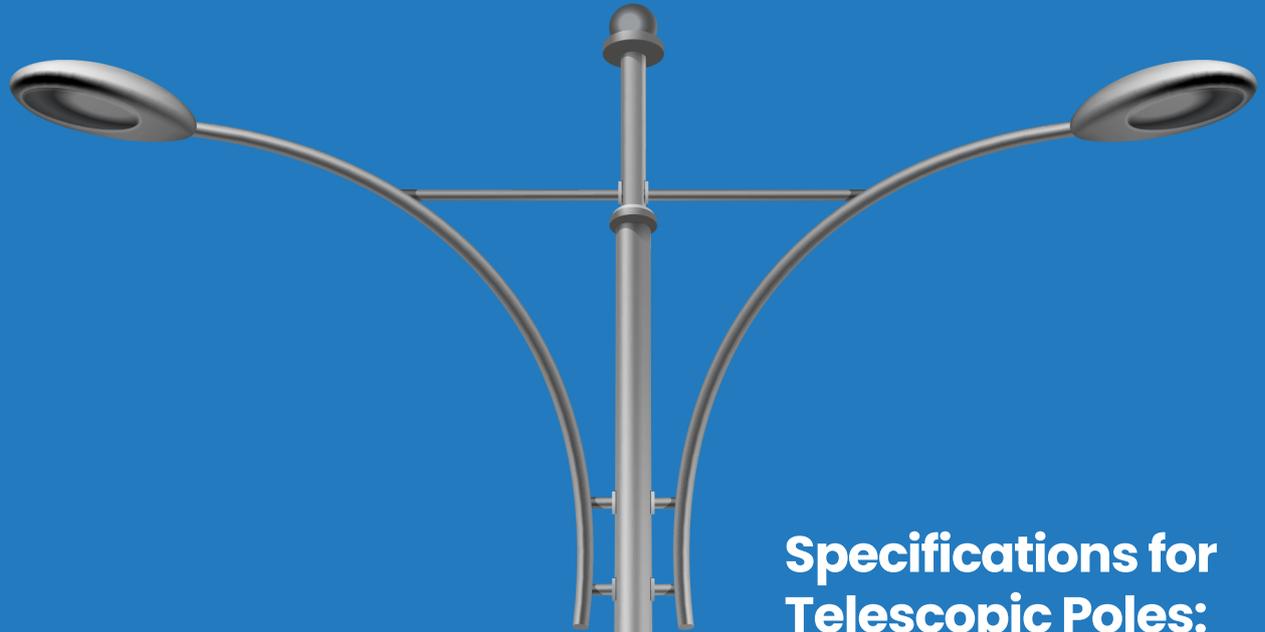


Robust construction

Robust construction enabling multipurpose use across various environments.

Hulas Infra Telescopic Poles

Specifications



Specifications for Telescopic Poles:

Material:

Mild Steel (MS) conforming to grades E250, E350, or equivalent international grades.

Standards:

Compliant with IS 2713/80 (Part 1 of 3) standards.

Application:

Suitable for use in distribution, transmission, and illumination systems.

Coating:

Poles shall be coated with MS (Mild Steel) and Zinc for enhanced durability and corrosion resistance.

Length:

Available in lengths ranging from 6 Meters (Mtr.) to 14 Meters (Mtr.).

These specifications ensure that the telescopic poles meet industry standards for quality, durability, and application suitability.



Hulas Infra Octagonal Poles

Aesthetic Appeal with Structural Integrity

Hulas Infra's Octagonal Poles are a testament to the harmonious blend of aesthetic appeal and structural integrity. These poles are favored for street lighting and contribute a contemporary flair to urban landscapes.

Advantages



Octagonal design

The octagonal design enhances strength and resistance to wind forces.



Aesthetic value

Elevates the aesthetic value of its surroundings.



Customization

Offers a variety of installation options for ease and convenience.

Applications



CCTV System



Flag Holder



Solar Lighting System



Traffic Light and Signal

Hulas Infra Octagonal Poles Specifications

Hot Dip Galvanized Hulas Infra Octagonal Poles

Standard specifications for Hulas Infra Octagonal Poles

Model	Height	Section Length	Dia (A/F)		Thickness	Base Plate	PCD	Foundation Bolt Length	No of Bolts
			Top	Bottom		Size X Thickness			
mm	mm	mm	mm	mm	mm	mm	mm		
HIOP 3	3000	3000	70	130	3	200 x 12	200	450	4 x 16
HIOP 4	4000	4000	70	130	3	200 x 12	200	450	4 x 16
HIOP 5	5000	5000	70	130	3	200 x 12	200	600	4 x 16
HIOP 6	6000	6000	70	130	3	220 x 12	205	600	4 x 20
HIOP 7	7000	7000	70	130	3	220 x 12	205	700	4 x 20
HIOP 8	8000	8000	70	135	3	225 x 16	210	750	4 x 20
HIOP 9	9000	9000	70	155	3	260 x 16	250	750	4 x 24
HIOP 10	10000	10000	70	175	3	275 x 16	270	750	4 x 24
HIOP 11	11000	11000	90	210	3	300 x 20	300	750	4 x 24
HIOP 12	12000	12000	90	240	3	320 x 20	325	850	4 x 24
HIOP 13	13000	13000	140	410	3	450 x 20	390	900	4 x 24

Hot Dip Galvanizing
65 Micron

Maximum Wind Speed
169 Km/hr

Maximum Section Length
12 Meters

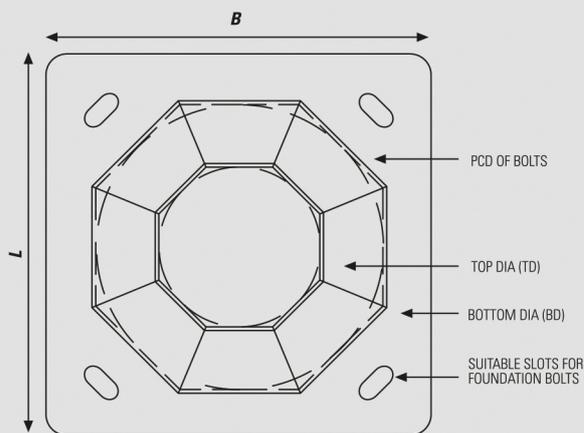
1. The Octagonal Poles Diameter indicates The Dimensions Across Face (A/F)
2. In addition to the above standards, poles can also be manufactured as per customers specifications
3. The Octagonal Pole Range is Standard Base Plate Mounted
4. The Octagonal Poles are Tapered Octagonal
5. The Octagonal Poles Range is available in Single and Double Outreach Arm Arrangements

Hulas Infra Octagonal Poles Cross-section Drawing

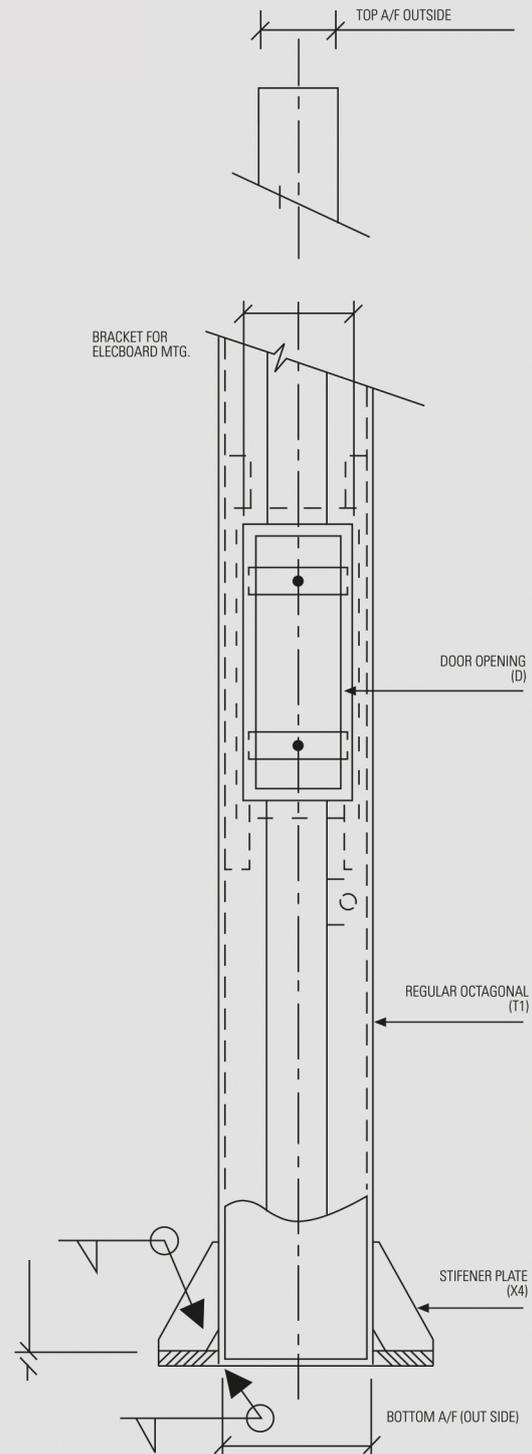
Material Specifications

Steel
Grade BSEN 10025 – S355J0 or
Equivalent

Base Plate
IS 2062



VIEW FROM THE TOP OF THE POLE



Introducing Hulas Infra High Mast Poles

Illuminating Large Areas with Precision and Strength

Engineered for high-altitude lighting, Hulas Infra's High Mast Poles are the ideal solution for lighting up expansive areas such as highways, ports, and stadiums, offering unmatched reliability and performance under extreme conditions.

Advantages



Customization

Tailored for extensive area illumination with optimal light distribution.



Built to last

Built to endure harsh weather and seismic events with ease.



Minimal maintenance

Minimal maintenance required, emphasizing long-term serviceability.



Hulas Infra High Mast Specifications

Item	Height mm	Thickness mm	Faces Nos	Across face Dia		Base Plate mm	PCD mm	Bolt	
				Top mm	Bottom mm			Size mm	Nos
HIHM 11	11000	3	12	100	360	545x12	445	20x900	4
HIHM 12	12000	3	12	100	360	545x20	445	20x900	6
HIHM 12.5	12.5	3,3	12	136	360	560x20	460	20x900	8
HIHM 16 L	16000	3,3	20	150	360	560x25	460	24x900	12
HIHM 16 M	16000	3,4	20	150	410	610x30	510	30x900	12
HIHM 20 L	20000	3,4	20	150	360	560x30	460	30x900	12
HIHM 20 M	20000	3,4	20	150	460	690x32	590	30x900	16
HIHM 25	25000	3,4,4	20	150	460	690x32	590	30x900	16
HIHM 30	30000	3,4,5	20	150	460	690x32	590	32x900	16

Applications:

1. Airport and Sea Ports

2. Railway Yards

3. Industrial Flood Lighting

4. Car Parks and Junctions

5. Sports Arenas/Stadiums

1. Material of Construction : BSEN 10025/BIS 5836

2. Foundaton Bold Material : Gr Fe-415 Mpa min

3. Base Plate Material : BIS 2062

4. Lantern Carriage Capacity: 750 Kg

5. Protection: Hot Dip Galvanized

6. Galvanization Thickness: 86 Microns (Approx)

7. Type of Joint: Stress Slip Fit



Introducing **Hulas Infra Mono Poles**

Our Mono Poles embody the essence of minimalism and efficiency. Hulas Infra designs these poles for various applications, including telecommunications and lighting, particularly in dense urban settings where space is at a premium.

Advantages



Optimal for areas

Optimal for areas with limited ground space.



Customization

Tailor-made to accommodate site-specific needs and requirements.



Single-piece construction

Single-piece construction ensures unmatched durability and longevity.

Hulas Infra Mono Poles Specification

Once mostly utilized in the US and Europe, monopoles are now gaining traction in Nepal as well. This is due to monopoles' clear benefits over lattice towers in terms of area, erection speed, delivery time, and other factors. Monopoles are also an environmentally favorable option because of their lesser base installation space, especially when they rise higher than 40 to 50 meters.

Being the pioneer in Nepal when it came to designing, producing, and building steel monopoles, Hulas Infra continues to contribute its innovative experience.

	101	102	103	104	105	106	107	108	109	111	112	110	113	114/115	116	117/122	119/123	118	120	121	
Section	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe	Pipe													
Length	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Outer DIA	2160	2080	2020	1930	1850	1780	1700	1600	1500	1300	1250	1400	1120	1025	950	760	635	670	534	533	
Thickness	18	18	18	18	18	18	18	18	18	18	16	18	16	16	12	12	8	10	8	8	

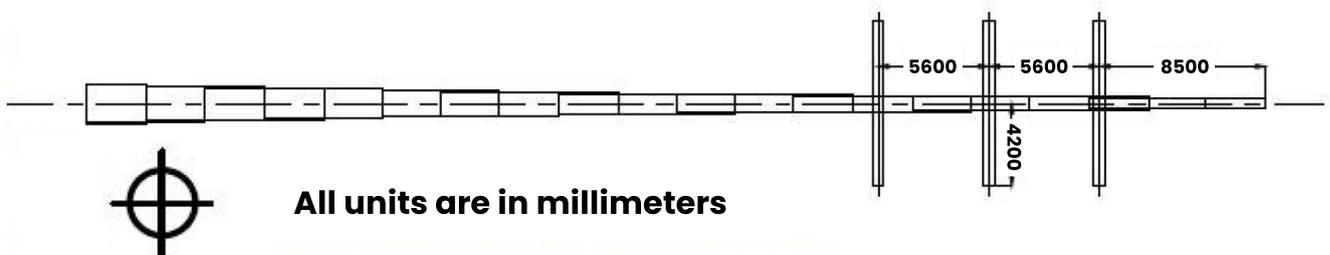


Fig. 60m Transmission Tower Monopole Pipe Section

Table 1. Monopole Design Data Conforming to ASCE 48-19

Member Numbering from staad	Size		D/t	$\frac{a}{F_a} + \frac{b}{F_b} \leq 1$	Shear Check		Bending Check		5.2.6 Combined Stress	
	OD	t			$f_v = 0.58 \times f_y$	$\frac{VQ}{I_b} + \frac{Tc}{I} \leq f_v$	Fb	$\frac{Mc}{I} < F_b$	F _y or F _b	Stress
101	2160	18	120.00	0.71	179.80	9.49	310	218	310	307.27
102	2080	18	115.56	0.72	179.80	9.82	310	221	310	309.41
103	2020	18	112.22	0.71	179.80	10.07	310	218	310	304.99
104	1930	18	107.22	0.72	179.80	10.53	310	222	310	309.19
105	1850	18	102.78	0.73	179.80	11.02	310	223	310	309.58
106	1780	18	98.89	0.72	179.80	11.52	310	220	310	305.56
107	1700	18	94.44	0.71	179.80	12.17	310	219	310	303.44
108	1600	18	88.89	0.72	179.80	13.10	310	222	310	307.42
109	1500	18	83.33	0.73	179.80	14.18	310	224	310	309.69
110	1400	18	77.78	0.73	179.80	15.44	310	225	310	309.79
111	1300	18	72.22	0.72	179.80	16.94	310	222	310	306.41
112	1250	16	78.13	0.72	179.80	19.99	310	222	310	306.79
113	1120	16	70.00	0.71	179.80	23.00	310	219	310	302.58
114/115	1025	14	73.21	0.71	179.80	29.44	310	219	310	304.79
116	925	12	77.08	0.72	179.80	31.01	310	223	310	308.09
117/122	760	12	63.22	0.72	179.80	41.27	310	221	310	306.26
118	670	10	67.00	0.74	179.80	45.75	310	228	310	307.92
119/123	590	8	73.75	0.73	179.80	70.23	310	225	310	301.20
120	440	8	55.00	0.84	179.80	14.20	310	259	310	308.34
121	320	8	40.00	0.80	179.80	19.53	310	248	310	295.84
27	320	10	32.00	0.85	179.80	14.69	310	265	310	309.81

Table 2. Design of Monopole with IS 800 : 2007

Member Numbering from staad	Size		D/t	Type of Section	N / N _d	My / M _{dy}	Mz / M _{dz}	9.3.1 Section Strength ≤ 1
	OD	t						
101	2160	18	307.27	Semi - Compact	0.009	0.702	0.276	0.987
102	2080	18	309.41	Semi - Compact	0.009	0.709	0.276	0.994
103	2020	18	304.99	Semi - Compact	0.008	0.701	0.270	0.979
104	1930	18	309.19	Semi - Compact	0.007	0.713	0.272	0.992
105	1850	18	309.58	Semi - Compact	0.007	0.716	0.271	0.993
106	1780	18	305.56	Semi - Compact	0.007	0.708	0.266	0.980
107	1700	18	303.44	Semi - Compact	0.006	0.704	0.263	0.973
108	1600	18	307.42	Semi - Compact	0.006	0.714	0.265	0.985
109	1500	18	309.69	Semi - Compact	0.006	0.721	0.266	0.992
110	1400	18	309.79	Semi - Compact	0.006	0.721	0.265	0.992
111	1300	18	306.41	Semi - Compact	0.006	0.713	0.261	0.980
112	1250	16	306.79	Semi - Compact	0.006	0.713	0.260	0.980
113	1120	16	302.58	Semi - Compact	0.006	0.702	0.256	0.964
114/115	1025	14	304.79	Semi - Compact	0.007	0.704	0.254	0.966
116	925	12	308.09	Semi - Compact	0.006	0.716	0.253	0.975
117/122	760	12	306.26	Semi - Compact	0.007	0.711	0.239	0.957
118	670	10	307.92	Semi - Compact	0.006	0.732	0.218	0.956
119/123	590	8	301.20	Semi - Compact	0.007	0.722	0.156	0.885
120	440	8	308.34	Semi - Compact	0.003	0.831	0.154	0.987
121	320	8	295.84	Semi - Compact	0.002	0.795	0.145	0.943
27	320	10	309.81	Plastic	0.000	0.849	0.140	0.989

Pole Accessories

Enhancing Functionality and Aesthetics

To augment our comprehensive pole solutions, Hulas Infra offers an array of pole accessories. These include essential and decorative components like brackets, arms, base plates, designed to enhance both the functionality and visual appeal of our poles.



Anchor Rod



Ball Clevis



Guy Clamp



Crossarm Channel



Pole Top Bracket



Connecting Link



Thimble Sheave



Guy Clip



Deadend Tongue



Pole Clamp



Strap



Bell Spacer



Flat Crossarm Bracing



Deadend Tongue



Stay Set

Advantages



Functional & aesthetic

Extensive selection of accessories to meet both functional and aesthetic demands.



High-quality materials

Constructed from high-quality materials to ensure durability.



Compatible

Seamlessly compatible with Hulas Infra's range of pole products.

Get in Touch

Partner with Hulas Infra

For more details on our innovative products and services, please reach out to us at sales@hulasinfra.com. The Hulas Infra team is eager to support your projects and answer any queries you might have.

