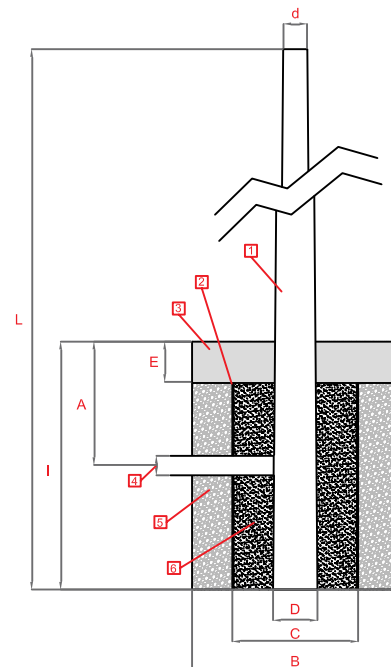


POLES

TAPERED FIBERGLASS REINFORCED POLES

suggestion for foundations

LENGTH L [mm]	TOP DIA d [mm]	BOTTOM DIA D [mm]	WEIGHT [kg]	AVERAGE THICKNESS [mm]	LOAD ON TOP [kg]	L-I ABOVE GROUND [mm]	A [mm]	B [mm]	C [mm]	E [mm]	I [mm]
3.000	60	110	5,5	4	200	2.400	300	400	300	100	600
3.600	60	120	7,6	4	200	3.000	300	400	300	100	600
4.000	60	127	8,6	4	200	3.400	300	400	300	100	600
4.600	60	135	10,1	4	200	4.000	300	400	300	100	600
5.000	60	145	11,3	4	200	4.400	300	400	300	100	600
5.600	60	155	13,8	4	200	5.000	300	400	300	100	600
4.000	76	143	10	4	250	3.400	300	400	300	100	600
4.800	76	155	11,5	4	250	4.000	300	400	300	100	800
5.000	76	160	17	4	250	4.200	300	400	300	100	800
5.800	76	170	18	4	250	5.000	300	400	300	100	800
6.000	76	177	19,5	4	250	5.200	300	400	300	100	800
6.800	76	190	24,6	4	250	6.000	300	500	300	100	800
7.000	76	194	25,6	4	250	6.200	300	500	300	100	800
8.000	76	210	39	5	250/300	7.000	300	500	400	100	1.000
9.000	76	225	40,4	5	250/300	8.000	300	600	400	100	1.000
10.000	76	245	46	6	250/300	9.000	300	600	400	100	1.000
11.000	76	260	56	6	250/300	9.900	300	600	400	100	1.100
11.600	76	270	57,5	6	250/300	10.500	300	600	400	100	1.100
12.000	76	278	68,2	6	250/300	10.800	300	600	400	150	1.200
12.600	76	290	70	6	250/300	11.400	300	600	500	150	1.200
13.000	76	295	80,6	6	250/300	11.700	300	600	500	150	1.300
13.600	76	305	87,8	6	250/300	12.300	300	600	500	150	1.300



EXPLANATORY LAYOUT-EXAMPLE OF POLE INSTALLATION

1. POLE
2. TUBULAR PIPE
3. CONCRETE SLAB
4. SERVICE HOLE DIA 50 mm
5. DRY TAMPED GROUND
6. RIDDLED SAND

NOTES:

- SUPPLIED DATA ON GROUNDING ARE NO STRICT THE INSTALLER HAS THE RESPONSIBILITY TO CHOOSE THE BEST FOUNDATIONS CONDITIONS.
- THE LOAD ON TOP VALUES INDICATED ON THE TABLE REFER TO RIGIDITY FIXED CONSTRAINT OF THE POLES.
- APPROXIMATE VALUES
- STANDARD COLOR: GREY/BLACK
- OTHER DIAMETERS, LENGTHS AND COLORS ON DEMAND

TAPERED FIBERGLASS AERIAL LINES POLES

suggestion for foundations

LENGTH L [mm]	TOP DIA d [mm]	BOTTOM DIA D [mm]	WEIGHT [kg]	AVERAGE THICKNESS [mm]	LOAD ON TOP [kg]	L-I ABOVE GROUND [mm]	A [mm]	B [mm]	C [mm]	E [mm]	I [mm]
8.000	115	250	41	5	500	6.750	300	600	400	100	1.250
9.000	120	270	61	6	500	7.600	300	600	400	100	1.400
10.000	120	288	65	6	500	8.500	300	600	500	150	1.500
11.000	120	304	75	6	500	9.350	300	600	500	150	1.650

MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT	MEAN VALUE
SPECIFIC WEIGHT	ASTM D792	g/cm ³	1,65
GLASS CONTENT BY WEIGHT	ISO 1172	%	45 ÷ 55
WATER ABSORPTION	ISO 62	%	0,5
DIELECTRIC STRENGTH	ASTM D149	kV/mm	5
SURFACE RESISTIVITY	EN 61340	Ω	10 ¹²
LOSS FACTOR AT 50 Hz (Tg δ)	ASTM D7028	-----	0,2
THERMAL CLASS	-----	CLASS	F
LONGITUDINAL THERMAL EXPANSION COEFFICIENT	ISO 11359-2	K ⁻¹	15 x 10 ⁻⁶
THERMAL CONDUCTIVITY	EN 12667 EN 12664	W/mK	0,3
LONGITUDINAL FLEXURAL STRENGTH	ASTM D790	MPa	350
LONGITUDINAL TENSILE STRENGTH	ASTM D638	MPa	400
LONGITUDINAL TENSILE MODULUS	ASTM D638	GPa	22
LONGITUDINAL COMPRESSION STRENGTH	ASTM D695	MPa	200
IMPACT STRENGTH	ASTM D5942	kJ/m ²	180

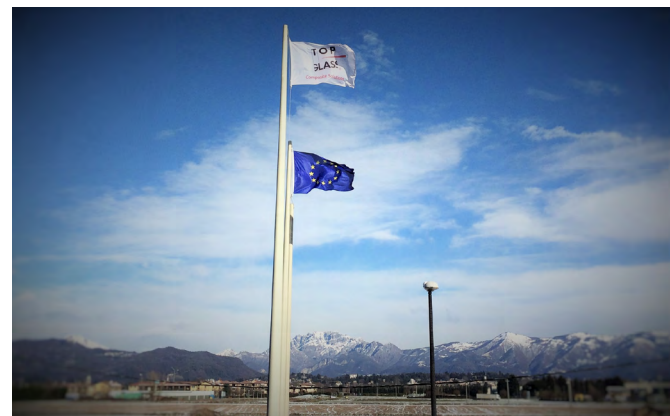
VALUES RELATED TO GLASS REINFORCED STANDARD POLYESTER POLES

Average tolerance on mechanical properties referred to longitudinal direction: ± 10%.

To the best of our knowledge, the data contained in this publication is accurate. However, Top Glass does not assume liability for how the data is used.



Certificate of Conformity CE for GRP lighting columns



STANDARD TRIGLASS® POLES

APPLICATIONS:

general lighting, traffic light poles, sign posts, urban fixtures, electrical power transmission poles, telephone poles, flagpoles, advertising poles, and protective fencing poles.

BENEFITS:

Lightweight
Extensive mechanical properties
Dimensional stability and heat-resistance
Dielectric properties and radar transparent
Withstand chemical and atmospheric agents
Maintenance free
Low linear thermal expansion coefficient