



FRP/GRP POLES & MASTS

Aeron FRP/GRP poles offer a solution to traditional problems & are suited to be used in places where poles of other material face serious corrosion problems (e.g. Coastal Area, Chemical zones, marshlands & areas with high temperature fluctuations.) Aeron FRP/GRP Poles are non-polluting & have a long life, can be reused in different locations. No surface treatment required as mandatory with traditional poles. Composite poles installation works out to be economical due to their light weight, they can be hand carried to inaccessible places, no surface treatments, grounding and servicing or painting is required.



Features and benefits of FRP Poles

- » Corrosion & Chemical Resistant.
- » Fire Retardant
- » Light Weight – Lighter than steel, Concrete & Wooden Poles resulting in lower installation and transportation costs.
- » High Mechanical Strength - Low mechanical stiffness of the composite material enables high mechanical strength of the Poles.
- » Durable & Long Lasting
- » Better Aesthetics
- » Frangible - In road traffic accidents involving poles, Composite poles cause fewer deaths than steel or concrete poles, due to their ability to fail in a controlled manner.
- » Low thermal Conductivity
- » Electrically Insulator – non conductive
- » Low Installation Cost
- » Maintenance Free - No Maintenance required due to its inherent technical properties
- » Economical - Composite Poles are economical and involve lower installation cost due to their light weight. They can be hand carried to inaccessible places, do not require any surface treatments, grounding servicing or painting

Application

- » Street Light Poles
- » Traffic Light
- » Sign Boards
- » Installation of lights in chemical plants.
- » Lighting in Parks, colony, Parking etc.
- » Advertisement boards etc.
- » Flag Poles
- » Telephone Lines
- » And many more...



SIGNAGES



TRAFFIC LIGHT



GARDEN/STREET LIGHT



STREET LIGHT POLES



**ADVERTISEMENT
POSTS**



FLAG MAST



**PARKING /
PLATFORM POLES**



**HANDRAIL MOUNTED POLES
FOR COOLING TOWERS**

Type of Poles



CYLINDERICAL



CONICAL



SERRATED (FLUTED)

Comparison – FRP/GRP Poles v/s Metal Swaged Poles

Features	GRP/FRP Poles	Metal Poles
Corrosion	Non Corrosive	Highly Corrosive
Aesthetics	Great	Adequate
Earthing	Not required	Required
Life	Very Long	Moderate
Maintenance	Maintenance Free	Very High Maintenance
Weight	Very Light Weight	Very Heavy
Colours	Color Pigmentation (UV Resistant)	Hand Coating from outside
Painting	Non Required	Frequent Painting Required
Relocation	Easy	Difficult
Mounting	Foundation required / Optional	Concrete Foundation is Compulsary
Transportation Cost	Very Less	Very High
Installation Cost	Very Less	Very High
Construction	Single	Multiple
Electrical Conductivity	Electrical Insulator & Non Conductive - Shock Proof	Conductive

Technical Specification

Details	Units	Test Methods
Glass Content	45 - 55 %	ASTM D 2584
Water Absorption	<0.5%	ASTM D 570
Tensile Strength	200 +/- 50 MPa	ASTM D 638
Flexural Strength	250 +/-50 MPa	ASTM D 790
Compressive Strength	200 +/- 50 MPa	ASTM D 695
Yield Strength	250 +/-50 MPa	ASTM D 638
Elasticity of Modular	1500 Mpa/2500MPa	ASTM D 638

Installation Type



DIRECT BURIAL TYPE



BASE BRACKET



HANDRAIL MOUNTED

Accessories



EXTERNAL JUNCTION BOX



JUNCTION BOX BRACKET



DECORATIVE BASE COVER



SINGLE ARM



DOUBLE ARM



INTERNAL JUNCTION BOX



FRP/GRP Cable Tray



FRP/GRP Structural Profiles



FRP Ladder



FRP/GRP Luminaries



FRP/GRP Handrails & Fencing



FRP/GRP Gratings



FRP/GRP Canopy



FRP/GRP Storage Tanks



FRP/GRP Trefoil Clamp



FRP/GRP Poles & Mast



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