



**FIBROPLASTICHEM**

INDIA PRIVATE LIMITED

An ISO 9001 – 2008 Certified Organisation

**FIBROPOLES**

FIBROPOLES



# PREFACE

A leading Indian manufacturer of GRP component like Chemical Tanks, Pipes of different dimension, pressure vessels, Poles, Venturi, Scrubbers of international standards from its state of art facility near City of Kolkata, India since 1972.

Fibroplastichem India provides world class quality support in Engineering, Design, Sourcing & Manufacturing from its 4 nos. of plants with the help of well trained work force.

Industries rely on Fibroplastichem India for a full complement of GRP components along with our full service-engineering group to develop a custom solution for their needs.

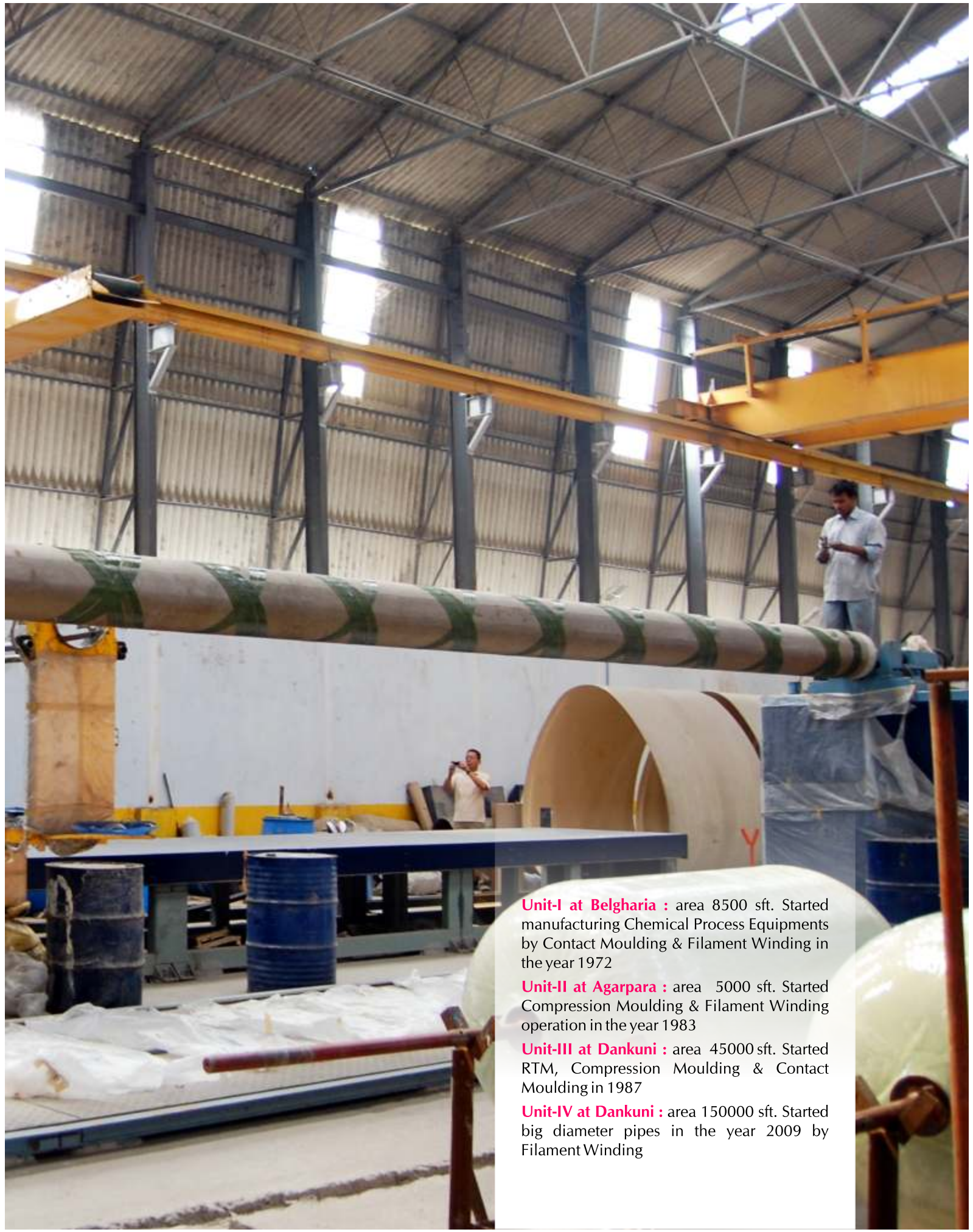
Our professional design engineers based on internationally accepted norms, such as AASTHO, BS EN, ASME, IS. We apply same universal specifications for domestic as well as international customers.

Kindly explore this Album / Catalogue to learn more about Fibroplastichem products and services.

Our focus is to provide quality products on time , on specification and ultimately to make your Industry Eco friendly, cost effective to make the Globe better place to live.







**Unit-I at Belgharia :** area 8500 sft. Started manufacturing Chemical Process Equipments by Contact Moulding & Filament Winding in the year 1972

**Unit-II at Agarpara :** area 5000 sft. Started Compression Moulding & Filament Winding operation in the year 1983

**Unit-III at Dankuni :** area 45000 sft. Started RTM, Compression Moulding & Contact Moulding in 1987

**Unit-IV at Dankuni :** area 150000 sft. Started big diameter pipes in the year 2009 by Filament Winding





# FIBROPOLES

## GRP LIGHT POLES

We offer a range of superlative quality GRP Light Poles. Manufacturers and FRP Street Light Poles Suppliers in India.

We are proud to be one of the renowned GRP poles manufacturer. The resulting research into non-corrosive materials has culminated in the choice of the Glassfibre Reinforced Plastic (GRP) Products. This material exceeded the expectations of the authorities, as it not only offered the answer to the excessive corrosion, but also offered convincing strength properties combined with an appealing finish and design.

Fibro Plasticem subsequently bought the expertise and machinery for the manufacture of filament wound GRP Poles and since commencement of production in July 2011.

Through its commitment to consistent quality, Fibro Plasticem has become one of the India's leading manufacturers of GRP poles.

FIBROPOLES are used for highways, main roads, residential streets, sports fields, decorative lighting, area lighting, post-top lighting, perimeter security, parks and gardens, as well FIBROPOLE as it became known, is used not only for its resistance to corrosion, but is preferred by architects, developers and local authorities for its aesthetic appearance, strength, ease of installation and inherent safety for road users.

FIBROPOLES are well suited for locations where traditional materials struggle to offer a definite and lasting solution. Unlike steel or aluminum, composites are anisotropic by nature. In street furniture, such as Poles and Masts, their anisotropy is used to advantage by ensuring frangible failure, in the event of a road traffic accident, thereby saving lives.

In addition, there are no surface treatments as with traditional poles will leech out into the ground or atmosphere. Composite products are non-polluting, have a long life and can be reused in a different location as if they are brand new.

## MATERIAL

The pole is constructed by the filament winding process to achieve optimum results for strength and rigidity. The filament winding process is continuously applied with uniform tension onto a rotating mandrel, resulting in a minimum mass glass to resin ratio of 70:30. The surface is seamless, smooth and tapered.

## MECHANICAL PROPERTIES

A standard pole supporting a luminaire with a wind surface of  $0.20\text{m}^2$  may not have a pole top deflection of more than 5% of its height above ground when subjected to a basic wind pressure of 500pa. A safety factor of 2.5 times the total maximum windload is applicable.

## SALIENT FEATURES

**LONGEVITY** : FIBROPOLES are designed for a minimum life time of 25 years, in accordance with present standards of GRP Poles.

**FREEDOM FROM MAINTENANCE** : Based on extremely good corrosion resistance FIBROPOLES do not need periodic maintenance or cathodic protection for below ground installations.

**VERSATILITY** : A wide range of spigots, floodlight mountings, base plates and decorative arrangements ensure a product for almost every application.

**LIGHT WEIGHT AND EASY INSTALLATION** : The light weight (1/3rd the weight of steel pipes) and long sections of FIBROPOLES considerably reduces installation costs, while fewer joints and feasibility of rapid fabrication leads to faster installation.

**CORROSION RESISTANT** : Fiberglass reinforced pole will not deteriorate in salty air climate, acid rain or acid soil which enhances long-term life & strength

**ECONOMICAL** : Compared with metal and cement ones the GRP pole need lower transportation and installation fee. Its maintenance fee is zero and has long service life. Therefore, its comprehensive cost is lower. In the long run GRP Pole is more economical than Wood, Metal or Cement ones.

**HIGH BENDING STRENGTH** : Engineered to withstand a wind pressure of 500 pa inclusive of  $0.20\text{m}^2$  luminaire area with less than 5% deflection of the mounting height.

## APPLICATIONS

FIBROPOLES are best suitable for –

Road Lighting, Coastal Areas, Solar Lighting, Discharge Areas, Jetties Lighting, Chemical Plants, Containment Areas etc.

## COMPARISON BETWEEN COMPOSITE POLES AND METAL SWAGED POLES

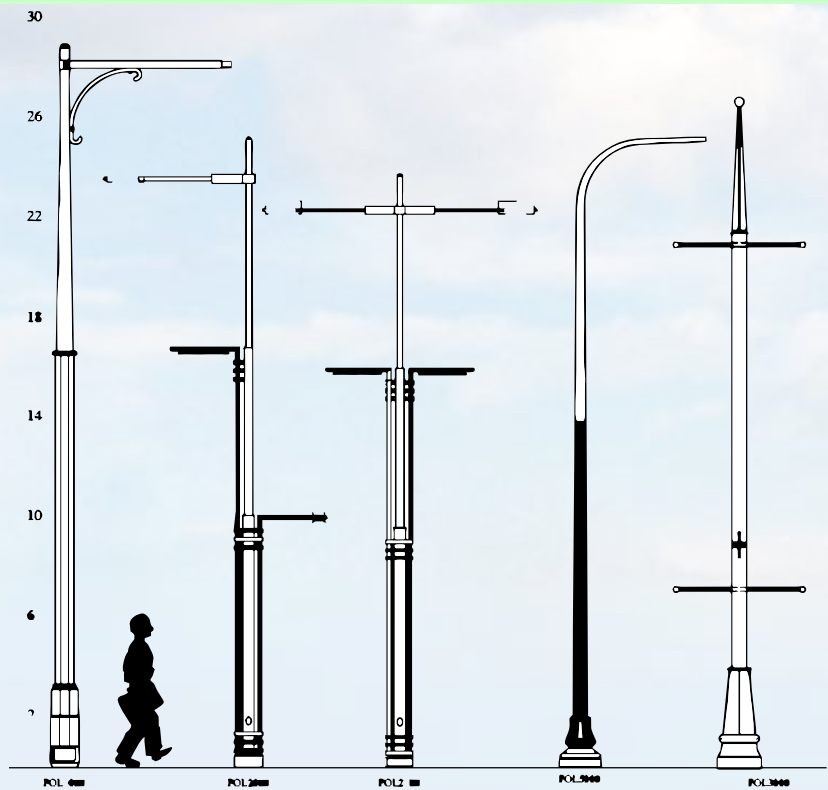
Features	GRP Poles	Metal Swaged Poles
Mounting	Foundation required/optional	Concrete foundation is compulsory
Corrosion	Non-corrosive	Highly corrosive
Relocation	Easy and hand carried	Not feasible
Aesthetics	Good	Periodic maintenance required
Construction	Jointless	Multiple joints
Weight	Light	Heavy (3times heavier than GRP poles)
Longevity	More than 20 years	Depends upon maintenance schedule
Periodic Painting	Not required	Periodic painting required





# FIBROPOLES

## *Street Lights*



# FIBROPOLES

## *Street Lights*

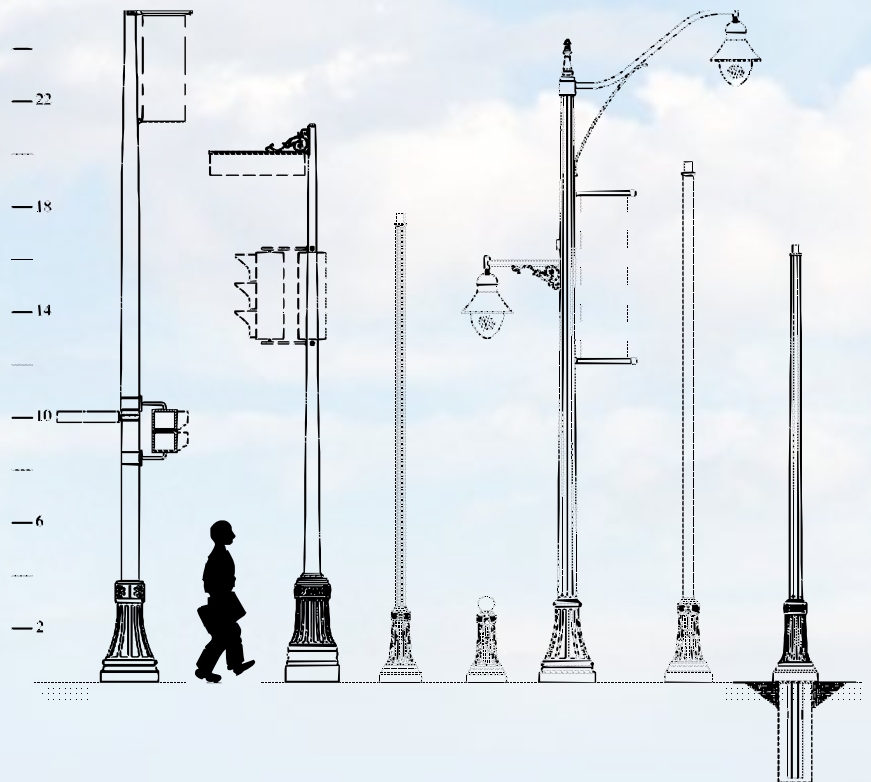






# FIBROPOLES

*Decorative Poles*





# FIBROPOLES

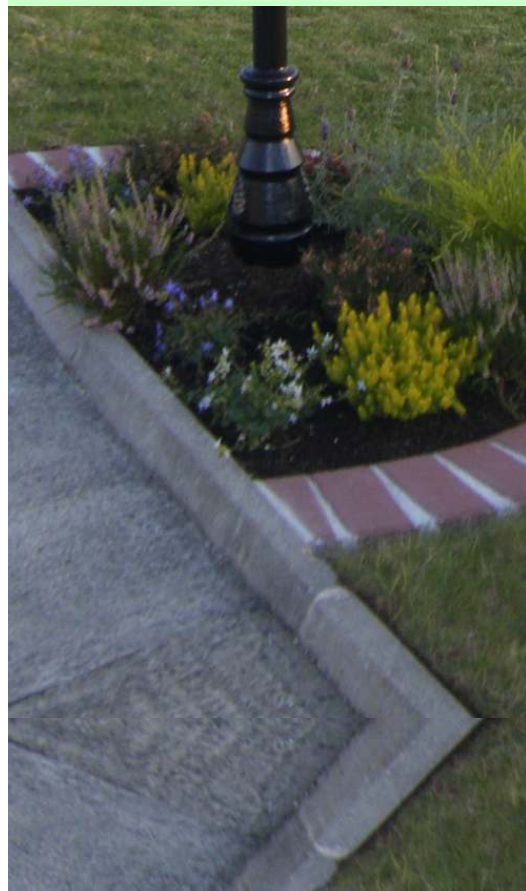
## *Decorative Poles*





# FIBROPOLES

*Decorative Garden Poles*





# FIBROPOLES

*Decorative Garden Poles*



# FIBROPOLES

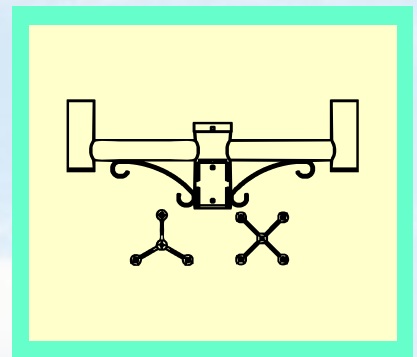
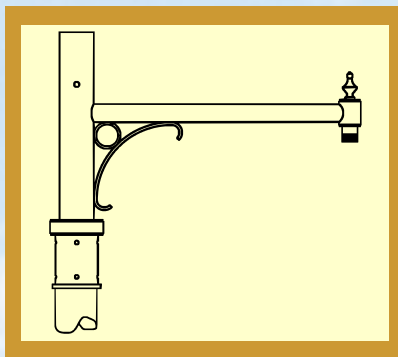
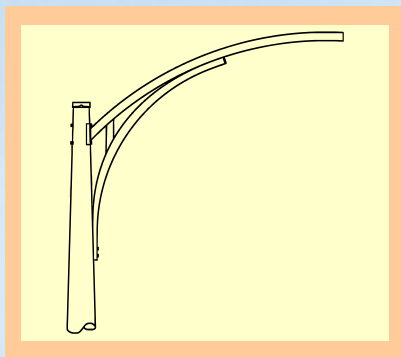
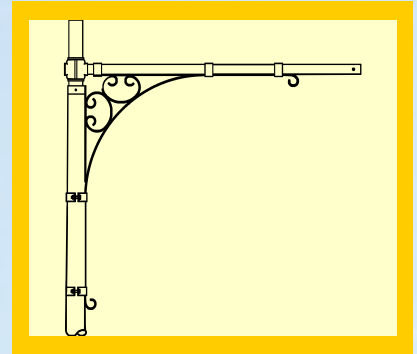
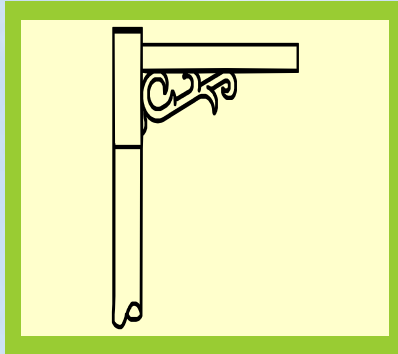
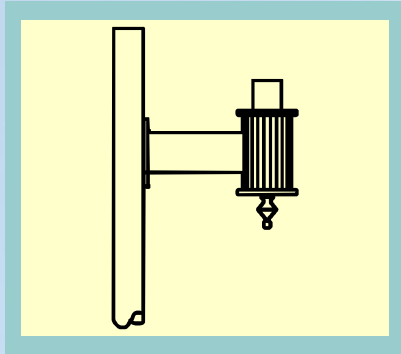
## *Decorative Poles Base*



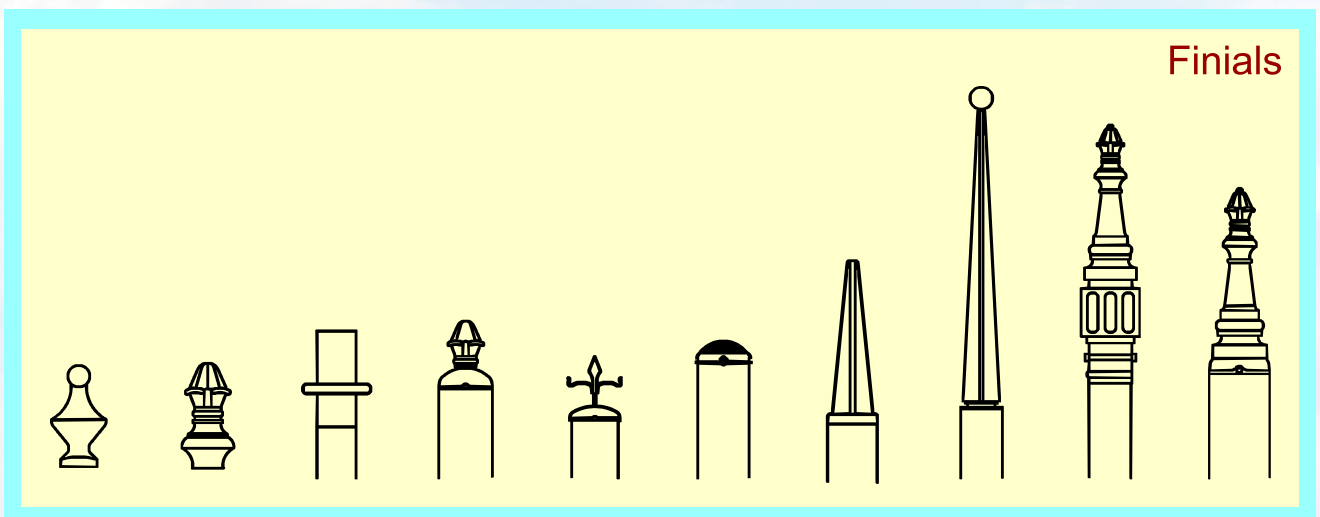


# FIBROPOLES

## *Decorative Arms (Line Drawing)*

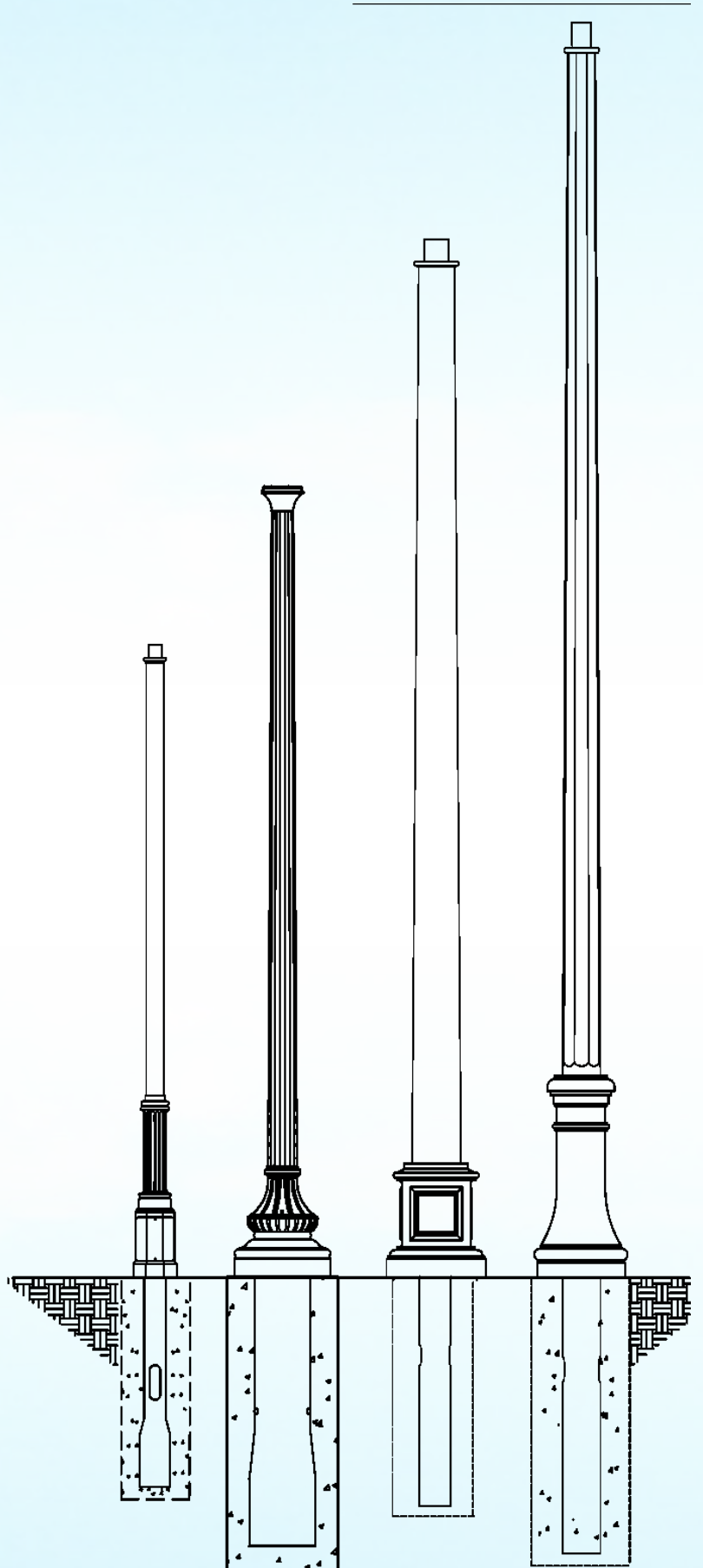


## *Accessories (Line Drawing)*



# FIBROPOLES

## *Installation*









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