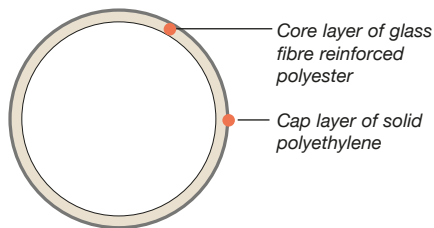


Electricity distribution and transmission poles

Composition



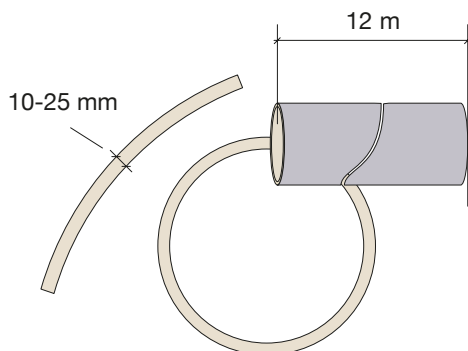
The pole is manufactured from glass fibre reinforced polyester. A cap layer of solid 3–4 mm coloured polyethylene covers the entire outer area of the pole. The cavity wall is untreated and highly resistant to chemicals, humidity, vermin and other forms of physical attack. A lid covers the top to prevent water and moisture leakage into the cavity.

Installation is in principle identical to the work process of a wooden pole.

Length

The pole is manufactured in standard lengths up to 16 m. Higher poles are offered on request.

Dimensions



Weight

The pole is significantly lighter than a wooden pole, the weight of a Jerol G12 is less than 200kg and the Jerol E16 weights less than 400kg, about half the weight of an equivalent wooden pole.

Width

The width of the pole vary depending on the length of the pole and the load requirements.

Wall thickness

The wall thickness of the pole vary depending on the length of the pole and the load requirements from 10-25 mm.

Climbing

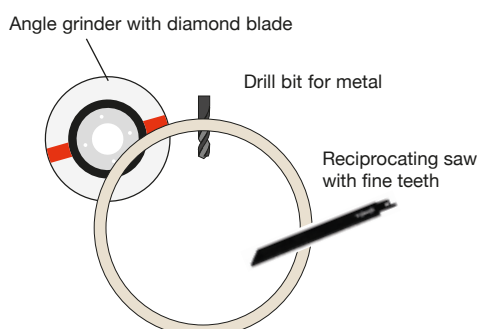
The same climbers as for wooden poles are used. With the standard safety line, a strap with the Jerol Gripper is used.



Equipment

Cutting

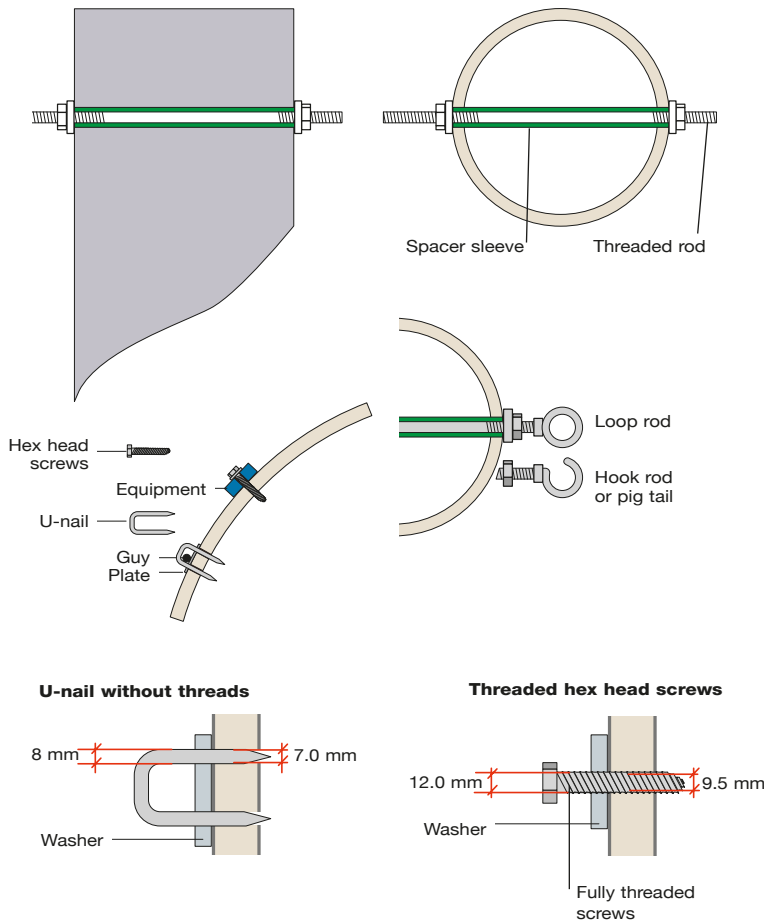
A standard angle grinder with a diamond blade can be used, alternatively a reciprocating saw with fine teeth. When cutting, dust which can be irritating to the skin is formed, therefore suitable protective equipment should be used. Chain saws are not suitable since the glass fibres would wear down the chain prematurely.



Mounting

Predrilled holes are required and hex head screws are to be used. Our recommendations for hole and screw diameter must be adhered to. Self drilling screws with coarse thread can be used.

Assembly



Mounting points

A spacer sleeve is required for all mountings where threaded rods are used.

Guy wiring

Guy wiring can be mounted in the same way as for wooden poles.

Guy wiring with U-nails

For guy wiring using U-nails without threads, the hole diameter should be 1.0 mm less than the nail to generate the resistance necessary to keep the nail safely in position. When installed on mountain, standard rough bracket can be used.

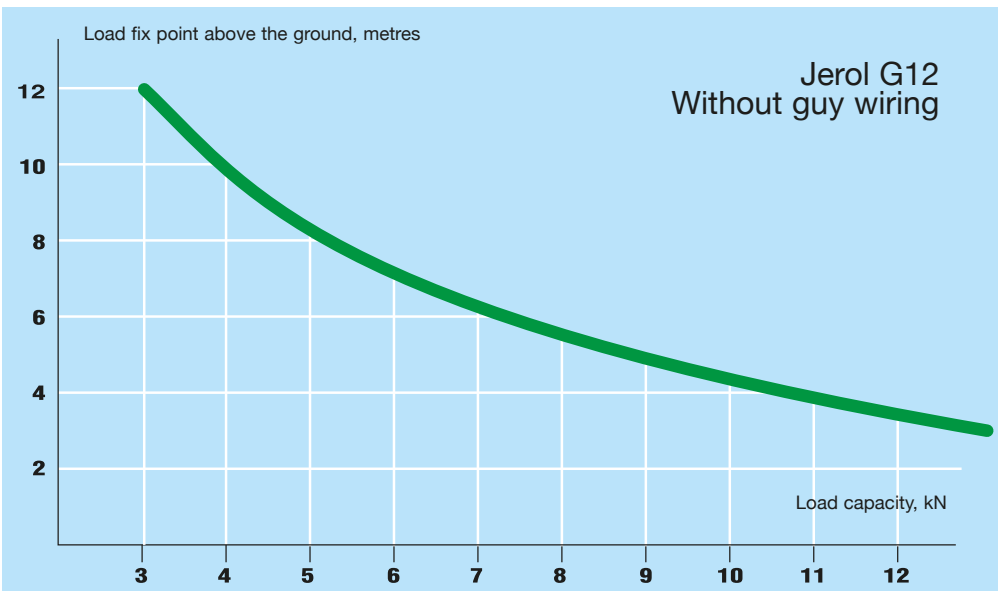
Mounting of equipment

Hex head fully threaded screws should be used for all mounting. Holes should be predrilled using a diameter that is less than the screw diameter. Please see the drawing for guidance.

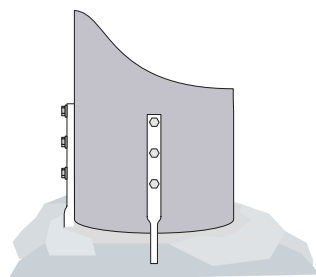
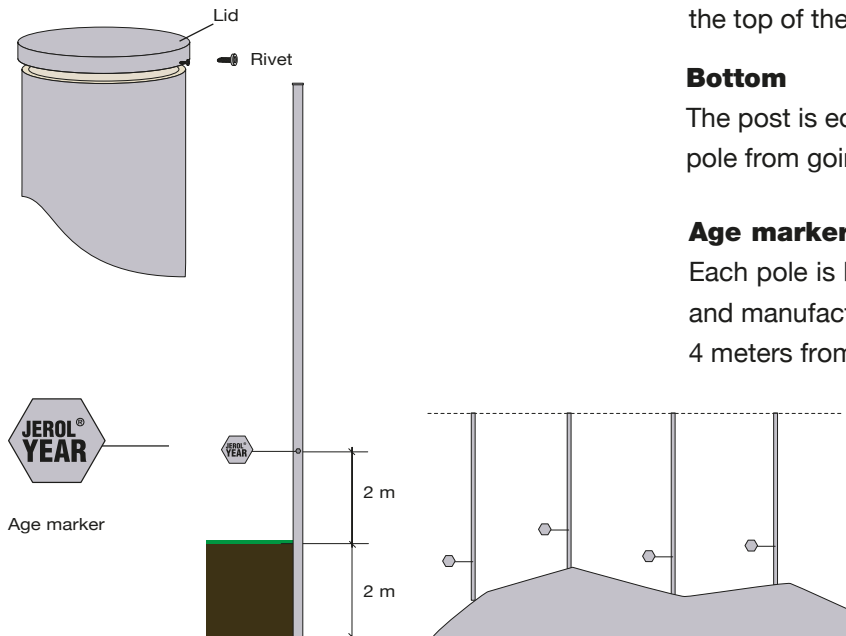
Raising/Erection of composite pole

The poles can be erected using Grab John similarly to erection of wooden poles.

Load capacity



Installation



For placing the pole on a mountain surface a standard blade bracket is required.

Covering lids

The pole is delivered equipped with a lid covering the top of the pole.

Bottom

The post is equipped with a bottom that prevents the pole from going down in soft ground.

Age marker

Each pole is branded with the Jerol name, type of pole and manufacturing year. The age marker is placed 4 meters from the bottom of the pole.

Setting depth

The set depth is the same as for wooden poles, 2 meters. The pole is buried in the same way as wooden poles.

Adjusting the height

Poles should be cut at the top, in order to maintain the 2 m distance to the age stamp from the ground. The cutting should be done with an angle grinder or reciprocating saw.

Storing and waste handling

Storing doesn't require any approval since the product exhibits no toxic components. Dismounted products can be reused, cut pieces can be used as cable protection. Damaged pole pieces can be submitted to a recycling facility or used as landfill.

Workers' safety

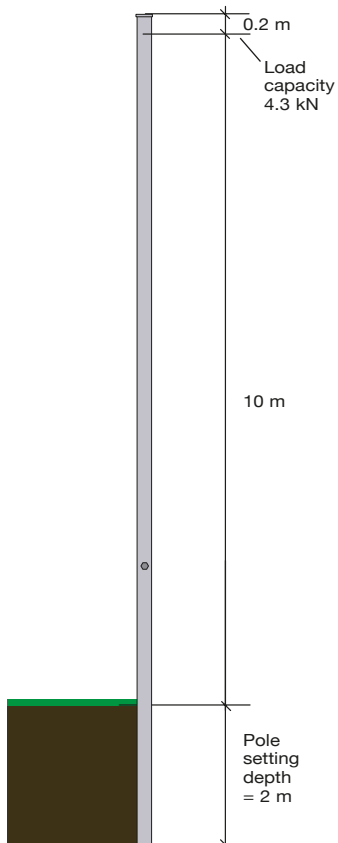
General safety precautions for machining are advised. The product is non-toxic.

Hazard & environment



A Material Safety Data Sheet (MSDS) is available on our website jerol.se

Length and set depth



Designation of poles

Distribution poles are designated after load capacity, classification in the same way as wooden poles. Values are calculated for non-guy wired applications.

<i>Pole</i>	<i>Load capacity</i>
Type N	3.4 kN
Type G	4.3 kN
Type E	5.4 kN
Type S	6.5 kN
Type S+2	7.8 kN

The length of the pole is given in metres. Jerol G12 is thus a type G pole of 12 metres. Setting the pole 2 metres deep, this gives a height above ground of 10 metres. At 0.2 metres from the top, the pole is designed to carry a load of 4.3 kN.

Preparation and dimensioning

The same dimensioning program used for wooden poles can be used.

Transportation

The poles can be transported with other goods, requires no permit for storing.

Life span

The life span is measured to be minimum 80 years based on practical experience in composite poles installed for more than 50 years in the same climate.