



JEROL
POLES

post+column

passively
safe
lighting
columns



passive safety - Jerol lighting columns

Structural Properties

The impact absorbing Jerol lighting columns have a conical polymer composite shaft, which consists of two layers, an inner fibre reinforced polymer composite and an outer layer of tough polyolefin.

Two tough polyester bands run the length of the columns. These prevent the columns becoming detached during a collision and also reduce the effects of column whiplash.

The construction is extremely durable, being weather and UV-resistant, and service life is estimated to exceed 60 years. All the fixings are stainless steel. The columns are particularly suitable for coastal areas where marine corrosion can be a problem with conventional materials.

Columns are available as composite shafts with tubular aluminium bracket arms or with post top tubes, and as the shaft material is an electrical insulator, no earth bond is required.

CE Marking

All Jerol columns are fully CE marked. Design check certificates and data sheets are available on request.



“The Government safety target is to reduce the number of road accident injuries and fatalities by 40%. If you commission **Jerol** poles, they just might reach it.”

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Passive Safety

Jerol columns have been extensively crash tested and certified to demonstrate passive safety performance in accordance with BS EN 12767, by Helsinki University of Technology. The family of columns has been tested at impact speeds of both 100 km/h and 70 km/h, and from the results the performance classes are declared as:

100:NE: 2 and 70:LE: 3.

Having NE category at 100 km/h, and LE category at 70 km/h, these columns are ideal for use in a variety of situations, whether high-speed roads, moderate speed roads, or at junctions and roundabouts. The need to stock different categories of passively safe column for different situations is avoided.

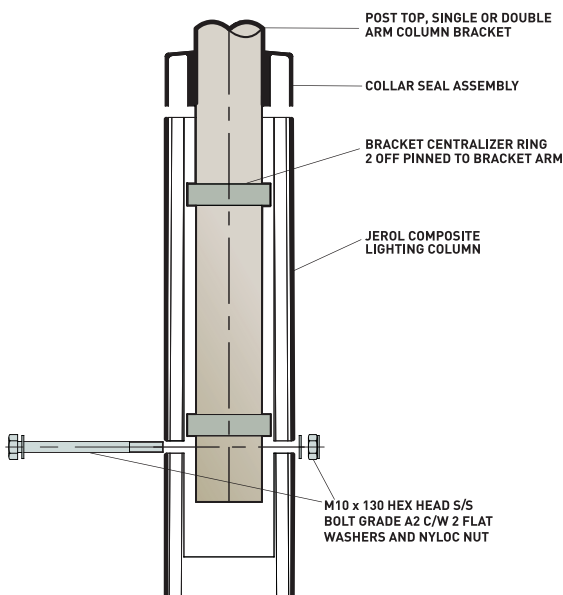


Bracket Arms

- Aluminium bracket arms are 60mm diameter.
- Alternative luminaire spigot connection diameters can be provided.
- Brackets are available as single or double arms in the projections shown.
- Intermediate sizes can be provided.
- A 60 or 76 mm diameter post top tube (PT) can be provided for all nominal heights.



Bracket Arm Fixing



Foundations

The posts are available with their own steel foundation – see separate brochure. Posts can also be installed by the more conventional mass concrete sleeved method.



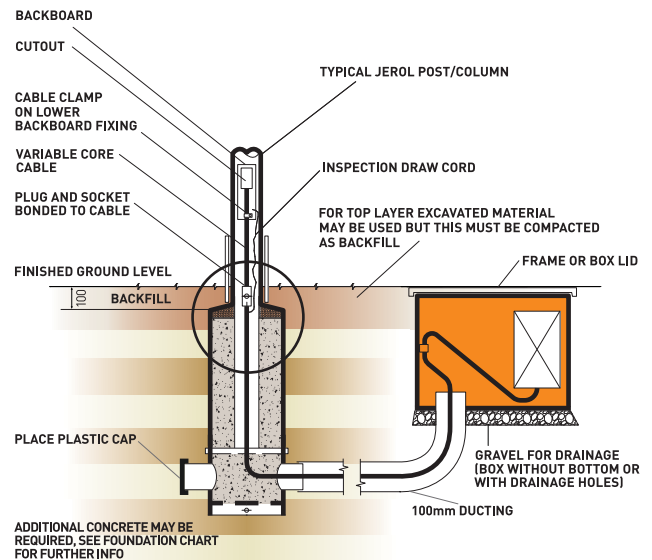
Doors and Base Compartments

The base compartment is 1.0m above ground level. Doors to base compartments are manufactured from stainless steel and are powder coated to match the colour of the post.

The aperture is fitted with a rubber seal and the door has a bonded foam lining to provide a watertight seal, and to provide good electrical insulation. Earth bonding to the door is therefore not necessary. The base compartment is complete with a wooden backboard.

Electrical Connection

To comply with UK regulations, passively safe columns must be fitted with a suitable electrical disconnection system. Typical systems are shown in the Jerol Installation Method Statement, which is available upon request.

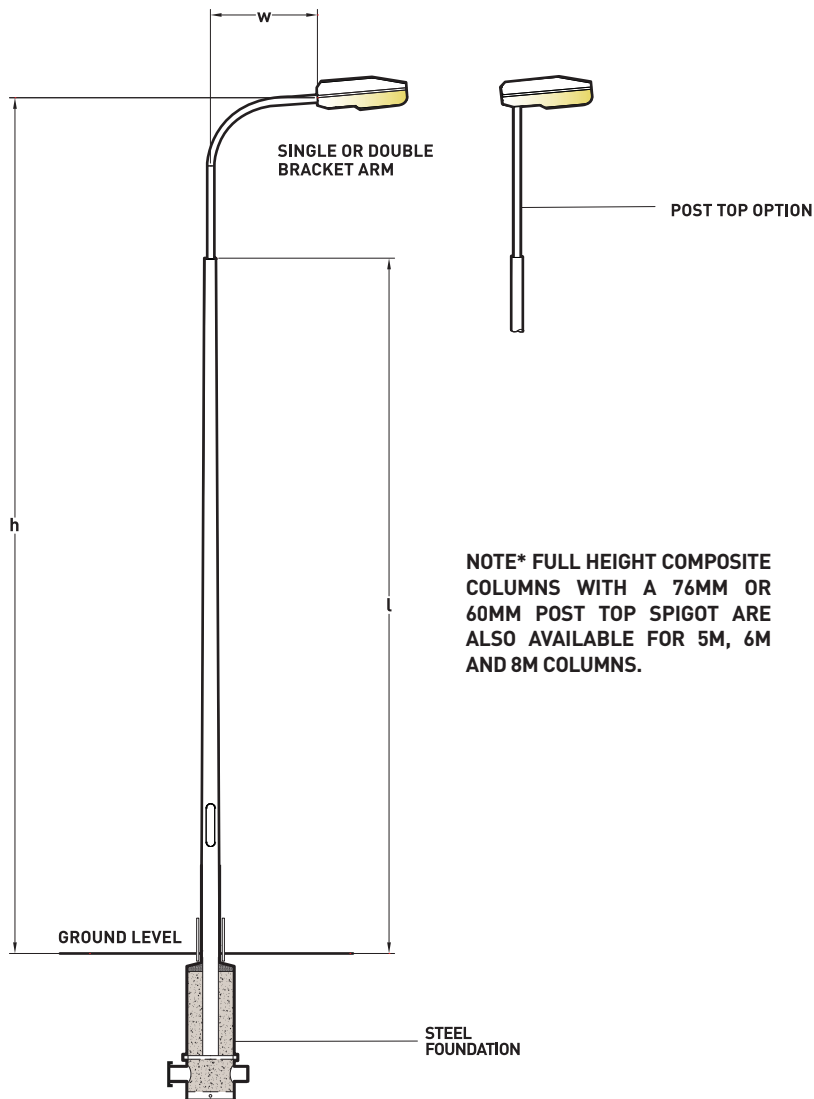


Coloured Finish

The standard finish of the polyolefin coating is RAL 7023 mid grey, but any RAL colour from the Jerol colour chart can be supplied on request. The door is powder coated to the same colour as the shaft. Aluminium bracket arms are normally supplied in natural aluminium, but can be powder coated to match a shaft colour on request.



specifications



Nominal Height m	Shaft Height Above Ground m	Diameter mm		Shaft Weight * kg	Bracket Projections m
h	l	Base	Top		w
5	4.0	114	78	32	Post top 1.0 vertical tube
6	4.5	147	103	51	PT; 0.5; 1.0; 1.5
8	6.5	170	103	66	PT; 0.5; 1.0; 1.5;
10	8.5	196	102	94	PT; 0.5; 1.0; 1.5;
12	10.5	221	102	122	PT; 0.5; 1.0; 1.5;

*The weights shown are with the short root for use with the pre-fabricated foundation.



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Specialist suppliers of Sign Posts and Lighting Columns.