FACT - One in three overhead cable strikes ends in a fatality.

Advantages of the Guardian Goalpost system

- Lightweight – extremely transportable
- Extreme ease when rigging up and down
- Highly visible red/white pole sections
- Stable weighted bases
- Full height clearance over carriageway
- Cost effective
- Can be illuminated for night use (see photo)
- Smaller storage footprint compared to ad-hoc systems
- Your company logo can be marked on each set

Contents

Each Guardian Goalpost set comprises:
- 2 no. 6m GRP (non-conducting) red/white telescopic poles
- 2 no. galvanised steel bases
- 1 no. 25m length of red/white warning bunting

Risk assessment

A site-specific risk assessment regarding placement and erection of Guardian Goalposts should be carried out prior to positioning and erection.

Positioning

Guardian Goalposts should be positioned relative to the conductors as per the guidelines given in GS6 Avoidance of danger from overhead electric power lines.

Schematic diagrams for recommended positioning in relation to road construction are given in Figures 1 and 2. Note that in some instances, when the poles are fully extended, the warning bunting may be higher than the conductor.

Manual handling

The steel base weighs 25 kg. Use good manual handling techniques when handling. Avoid trapping fingers under the base when placing. Suitable gloves are recommended when handling poles and bases.
Erecting ‘Guardian Goalposts’

Place bases in accordance with GS6 guidance, which for road construction is in pairs a 12m each side of the outermost conductors of the overhead line/s to be marked, to create the Safety Control Zone.

If placing a base on a sloped grassed verge, using a spade, slit the grass in an approximately 600 x 600mm “H” shape and roll the turf back. Level the soil underneath. Place base. Roll back turf when base is removed.

If placing on sloped hard surface, use 600mm lengths of scrap wood to level. Laths used must not extend beyond the base.

Although bases can be used without ballast in winds up to 11km/hr (3.3m/sec, 7mph, Beaufort Scale 2 – “Light breeze”) it is recommended that each base be weighted with one or two sandbags depending on wind conditions.

Place a pole into the first base. Using a suitable knot, tie off a loop in one end of the bunting. Put the loop onto the longer pole hook. Unlock the pole top section and extend, relock. Unlock, extend and relock each pole section in turn until it is fully extended.

Place a pole into the second base. When clear of traffic (or stop the traffic until the next operation is complete), run the bunting across the road and place through the open pole hoop. Tension and adjust the bunting length, then rapidly erect the second pole. Adjust final length and tension before tying-off on the ring on the base. Do not over-tighten the bunting. The bunting should lie in a slightly sagging (catenary) line. Pole height is 6m. Minimum height clearance over roads under lowest point of catenary sag must be b 5.41m. The system is designed to allow up to 590 mm line sag. If width spanned is too great for the bunting to be extended down to the tie ring, extend the bunting with a length of suitable string or twine.

Repeat erection instructions for the second pair of ‘Guardian’ Goalposts.

Rigging-down

When the road is clear (or stop the traffic until the next operation is complete), untie the end of the bunting from the base, and then unlock, telescope down, and relock each section in turn. Remove the bunting from the pole hook and take across to the other pole, and telescope it down in the same way.

Rig-down the remaining pair of goalposts in the same way.

Night Use

‘Guardian Goalposts’ can also be supplied with an optional 24 volt light set to enable use during night working.

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1. GS6 Avoidance of danger from overhead electric power lines, clause 24
Figure 1 Configuration for roads – longitudinal view, not to scale

Figure 2 Configuration for roads – transverse view, not to scale

Guardian
Goalpost

Guardian
Goalpost

SAFETY CONTROL ZONE

12m

12m

conductor wires

catenary sag

pole height = 6m

0.59m allowance for catenary sag

5.41m minimum clearance

1. GS6 Avoidance of danger from overhead electric power lines clause 24
2. Traffic Signs Manual, Chapter 8, Traffic Safety Measures and Signs for Road Works and Temporary Situations Part 1: Design 2006, clause D3.2.22 states that the minimum headroom at temporary structures should be 5.41m.

For further information and pricing, please contact:

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