

GRP TRAFFIC & ROAD SAFETY PRODUCTS · SPECIFICATION TEXT

GRP roadside flexible delineator post

1. Subject and scope

This specification covers the supply of grp roadside flexible delineator post. The function and place of use follow the definition below:

The GRP roadside flexible delineator post is designed to keep the edge line of the road and the boundary of the embankment visible to the driver at night and in bad weather. The glass-reinforced polyester body spends impact energy by flexing; in typical glancing contact it flexes without damaging the vehicle and returns to position. With reflectors on both faces the line reads from either direction, and with bolted mounting it also marks the top of an existing steel barrier.

2. Features

Made by pultrusion, with glass fibre running both lengthwise and crosswise — which is why it folds under impact instead of breaking.

The pigment sits in the compound. A scratch does not discolour it and it does not fade in sunlight; the yellowness index stays at or below 12.

The burial depth arrives marked on the body as a horizontal black line, so every post stands at the same height regardless of who installs it.

Retroreflective material on both faces: red on the concave front face, white on the convex — the driver sees red in the right-hand row and white in the left.

Virgin raw material only. Fatigued or reprocessed material is not used.

It has no scrap value, so with nothing to gain from removing it the theft risk is lower than for a metal post.

Can be riveted or bolted to an existing steel barrier; if bolted it can be removed and reused on another route.

3. Dimensions and classes

Height — total / above ground	1150/700 · 1300/800 · 1500/950 mm — the standard height is 1300 mm; for snow and fog regions special lengths up to 3000 mm are made to order
Buried depth	450/500/550 mm depending on height (for 1150/1300/1500 mm posts respectively); the last 100 mm is the point. Standard 1300 mm height: burial line at 500 mm (marked at the factory) — the horizontal black line on the body shows that level
Width × wall thickness	100 × 3 mm
Curvature (section camber)	10 mm — with a 10 + 10 mm flat edge either side of the camber
Reflector size	150 × 70 mm — reflectors on both faces; the colour arrangement follows the authority's scheme
Reflector position	Starts 100 mm below the top and leaves 100 mm clear beneath it (standard 1300 mm height)

Tolerances	Width and height $\pm 2\%$ · curvature max +3 mm · thickness $\pm 5\%$
Material	Glass reinforced polyester — roving and mat reinforcement in a thermoset resin; virgin material only
Production method	Pultrusion; both faces smooth, opaque white
Flexural tensile strength	min. 500 MPa
Bending temperature under load	min. 95 °C
Water absorption	$\leq 0.40\%$ by weight
Flame resistance	Non-flammable or self-extinguishing type
Operating temperature	-30 ... +80 °C
Body colours	White, yellow
Yellowness index	≤ 12 (ASTM E313)
Daylight reflectance	≥ 70 at 45°/0° (ASTM E97)
Reflective performance life	60 months — the period the raw material supplier commits to in its own documentation, shared at quotation stage; this is the floor specifications ask for
Body durability life	20 years under normal weather — covers the body material, not the reflective face
Marking	Authority emblem on the front face; manufacturer name and production date on the back, characters at least 10 mm high

4. Documentation

The governing document and standard are stated in writing at quotation.

Test results and documents are shared only with the report and the document; no class name is cited without its document.

5. Packing and delivery

Pallet 109 × 135 × 115 cm · 2,500 pcs · 1,825 kg.

6. Quotation and contact

Quotation requests go through trafficindustries.com or info@trafficindustries.com; the quotation is prepared the same day against quantity, variant and delivery terms.