

GRP TRAFFIC & ROAD SAFETY PRODUCTS · TECHNICAL DOCUMENT

GRP snow fence

The GRP snow fence is set along the roadside to stop wind-driven snow from closing the road. It substantially reduces the work of clearing snow blown onto the carriageway. The GRP louvre panels, set between galvanised steel posts, do not rust and come through an impact test at -30°C without cracking. Two standard heights are made (1.50 and 2.30 m); other heights and lengths are made to order.

TECHNICAL SUMMARY

Dimensions

Height 1.50 m · 2.30 m

Post spacing 2.00 m

Post section Box section 60×60×3 mm (1.50 m) · 70×70×3 mm (2.30 m)

Rails 3 rows (1.50 m) · 5 rows (2.30 m); 25×5 mm flat bar

Louvre profile 55×8×3 mm, edges folded at 135°

Panel cap U profile 60×26×3 mm, top and bottom

Foundation and bracing

Foundation 60×40 cm, 40 cm deep (1.50 m) · 70×50 cm, 50 cm deep (2.30 m)

Concrete C30/37, reinforced

Brace Same section as the post; one every 4 bays (1.50 m) or every 3 bays (2.30 m)

Brace connection Welded to the post at 45° ; lower end 35–50 cm into the foundation concrete

Line ends Two opposing braces

Material

Panel Vertical GRP louvres threaded into hot-dip galvanised, PVC-coated chain-link mesh, overlapping side by side

Colour White

Caps Panel: white GRP U profile, wall ≥ 3 mm · post top: white PVC

Cap fixing ≥ 1.50 mm galvanised stainless tie wire

Steelwork Hot-dip galvanised to TS EN 10240, 488 g/m² (TS EN ISO 1461; zinc to TS EN 1179)

TYPE TESTS

Test	Method	Value	Test condition
Yellowness index	ASTM E313	≤ 12	45°/0° geometry, 2° observer, spectrophotometer with D65 illuminant
Water absorption	EN ISO 62	$\leq 0.4 \%$	50×50 mm sample, 24 hours in water; from the mass difference
Chemical resistance	EN ISO 175	No deposit or sediment	7 days in 5 % sulphuric acid, 10 % hydrochloric acid, petrol and 10 % sodium chloride solution
Flame resistance	EN ISO 1066	Does not ignite or self-extinguishes	One end of the sample is held in the flame; the distance at which burning stops is measured
Impact resistance	—	No crack of 6 mm diameter	Sample held at 30 °C; a 1000 g weight is dropped from 120 cm at 90°
Flexural strength	EN ISO 178	≥ 400 MPa	Three-point bending on a sample cut to the standard
Cold impact resistance	—	No crack of 6 mm diameter	Sample held at -30 °C for 2 hours; a 900 g weight is dropped from 150 cm at 90°

WHERE IT IS USED

- Interurban road. Open stretches where snow drifts
- Rural road. Roadsides exposed to wind