

Precast Highway Grid Datasheet



Steels Specification

Design compliant with BS 4008:2006 and Euro BS EN 1991-2 Part 2

Steelwork CE Certified (Exc 2) fully galvanised to BS EN ISO 1461

122 tonne with axle loading +16 tonnes

Eurocode compliant – designed to carry load models LM1 and LM2 and special vehicles SV80, SV100 and SV196 (CVW 80 tonnes, 100 tonnes and 150 tonnes respectively)

Drainage options for outflow

Transverse beam 8mm thick Rectangular Hollow Section

Carrier Beams 25mm thick plate

Modular 3m, 4m, 5m, 6m, 7m, 8m road width

All steel animal (hedgehog) escape ramp

Comparison

Comparatively, for a 5-metre-wide grid, conventional grid steels weigh between 1900kg and 2200kg whereas the Triangle grid steels weigh a hefty 3650kg. Why is it important? Quite simply, we use much heavier sections and there are many advantages:

- Extended grid life (> 10 years longer than conventional grids)
- Highly reduced traffic impact noise
- High axle loading capacity
- Minimal maintenance

Concrete Base Specification

Factory controlled PAV 2 Concrete C40/50 – delivers compressive strength 80-90N/mm²
- weight each base section 9.3 tonne (2 sections 3-5m grids, 3 sections 6-8m grids)

Cast in anchors (no site drilling required)

Mulseal DP 0611 painted bases



Comparison

Triangle precast grids can be installed in 5 days. Site poured concrete grids require 3-5 weeks

Painted bases prevent ground water ingress

5-day install means the UK's smallest environmental footprint:

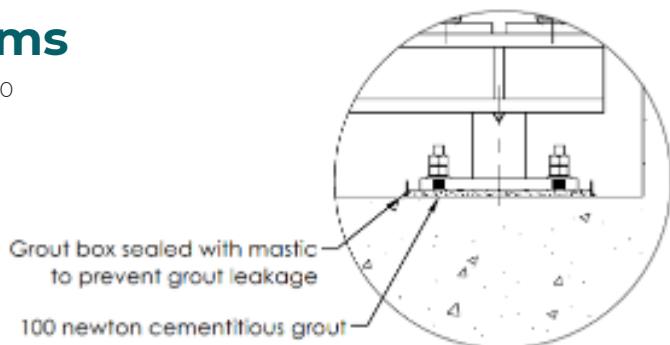
- Reduced road closures and diversions
- 88% reduction in emissions
- No alkaline washout from site poured concrete
- No formwork or premix concrete waste
- No toxic mineral release
- Less disruption to business and schools

Fencing + Dibond Reflector Kits



Stanchion Beams

Polyethylene grouting frames + M20 Staytite locknuts



TRIANGLE