

GritPlate Panels

General Technical Specification

GENERAL DESCRIPTION

Smyth Composites range of “GritPlate” products (GRP anti-slip flooring panels) - provide a quick, safe and effective solution to slippery pedestrian areas where slips and fall are a potential hazard.

ULTIMA PANELS (TAY BRIDGE SPEC)

Ultima GritPlate panels are possibly the toughest and most hardwearing anti-slip panels available in the marketplace. Where Ultima panels differ from conventional gritted sheets is due to the fact that an interlayer of a special grit compound is applied and sandwiched between the fiberglass layers providing a massive improvement in wear resistance. (Panels currently under test conditions on the Tay Road Bridge – patent applied for)

STANDARD GRITPLATE PRODUCTION

These panels are hand laid using techniques that have been tried and tested over the last decade. Crucial to the high quality of the product is not only the specific resins and matting used but the way they are combined. Another key factor is the extremely hard wearing “Fused Alumina” grit is skillfully applied to the sheets at the “wet stage” which means it sinks into the material making one homogenous sheet that is then finished with a tough gel coat to the same RAL colour of the main sheet thus providing a continuous “through colour”

These sheets, which come “cut to size”, are available in a range of thicknesses, colours, fire ratings and surface profiles as detailed below.

SURFACE PROFILES

Type of grit: Fused Alumina. Other types such as Quartz or Bauxite are available to special order:

- | | |
|--------------|----------|
| * Ultra-Fine | * Fine |
| * Medium | * Coarse |

FIRE RESISTANCE

Products can be manufactured to either:

1. General purpose (GP) grade (all products)
2. BS 476 Part 7 Class 1 (Surface spread of flame - all products)
3. BS 476 Part 6 Class 'O' (Heat Release - all products)
4. BS 476 Part 7 Class 2 (Surface spread of flame - all products)
5. Phenolic

COLOUR RANGE

Black, Grey (7001) and Yellow (08 E 51) as Standard, however panels can be manufactured to the following:

B.S. 4800 Colour Range

RAL Colour Range

B.S. 5252 Colour Range

A colour matching service is also available

SIZE & THICKNESS

Panels can be manufactured to any length but with a width restriction of 1525mm. Standard product range can be manufactured to literally any thickness from 2mm upward. Weight implications for manhandling and transportation may restrict larger sizes.

WEIGHT OF A PANEL

THICKNESS	WEIGHT	THICKNESS	WEIGHT
[mm]	[kg/m ²]	[mm]	[kg/m ²]
3.5mm	6.80	7mm	11.90
4mm	7.80	8mm	13.20
5mm	9.70	9mm	14.40
6mm	10.80	10mm	15.36

THERMAL CO-EFFICIENT OF EXPANSION $30 \times 10^{-6} / \text{oC}$

FACT: Compared with many other plastics GRP has minimal expansion and contraction characteristics and will not bow and warp in extremes of temperature.