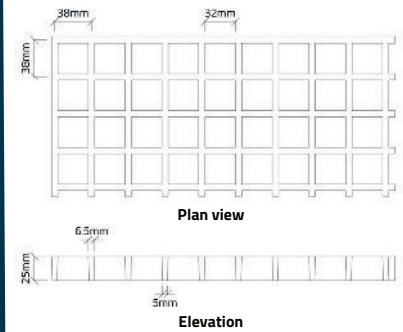
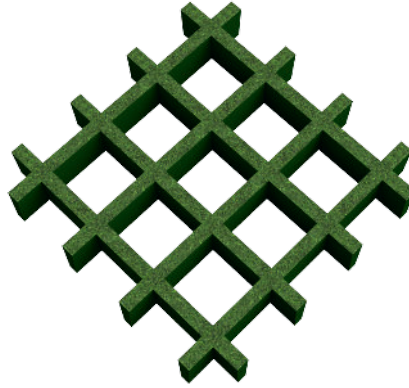


Supplies an extensive range of Fibreglass Reinforced Plastic (FRP) grating, stairtreads and trench lids in various panel sizes and thicknesses. This datasheet highlights the main product properties of the grating:

Type: 25mm Deep X 38mm Square Mesh Grating

Product specifications:

| | |
|-----------------------|--------------------------------|
| Product code: | G25N |
| Panel size: | 1220 x 3660 mm |
| Mesh size: | 38 x 38 mm |
| Thickness: | 25 mm |
| Resin type: | Isophthalic polyester (ISO) |
| Top surface: | Grit |
| Colour: | Green, RAL 6010 |
| Open area: | 68% |
| Weight grating panel: | 54 kg |
| Surface area panel: | 4.47 m ² |
| Weight: | 12.08 kg/m ² |
| Slip rate: | P5 |
| Recommended clips: | IFMT25 / IFCRC / IFSRC / IFSD8 |



PermaStruct® FRP Gratings are not limited to the colours, sizes and resin types and can be custom ordered in your preferred choice.

Dimensions may vary by ± 3mm due to manufacturing tolerances.

Strength of FRP grating uniform loaded

Grating thickness 25 mm
Meshes 38 x 38 mm

| | Deflection in mm | | | | | | | |
|-------|------------------|--------|--------|--------|--------|---------|---------|---------|
| | 500 mm | 600 mm | 700 mm | 800 mm | 900 mm | 1000 mm | 1100 mm | 1200 mm |
| 3 kPa | 0.93 | 1.89 | 3.45 | 5.83 | 9.28 | 14.08 | - | - |
| 5 kPa | 1.55 | 3.14 | 5.75 | 9.72 | - | - | - | - |

The loads represented are for STATIC LOAD CONDITIONS at ambient temperature.

Chemical resistance list

| Chemical environment | Concentration % | Temp in °C |
|----------------------|-----------------|------------|
| Acetic acid | 50 | 30 |
| Aluminium hydroxide | All | 45 |
| Ammonium bicarbonate | All | No |
| Ammonium chloride | All | 82 |
| Ammonium sulphate | All | 60 |
| Aqueous ammonia | 28 | 30 |
| Benzene | | No |
| Benzoic acid | All | 65 |
| Chromic acid | 20 | No |
| Copper chloride | All | 65 |
| Copper cyanide | All | No |
| Ethylene glycol | 100 | 65 |
| Ferric chloride | All | 65 |
| Ferrous chloride | All | 60 |
| Gasoline | 100 | 60 |
| Glucose | 100 | 38 |
| Glycerine | 100 | 65 |
| Hydrobropic acid | 25 | 38 |

| Chemical environment | Concentration % | Temp in °C |
|----------------------|-----------------|------------|
| Hydrochloric acid | <10 | 52 |
| Hydrochloric acid | 20 | 38 |
| Hydrochloric acid | 37 | No |
| Kalium nitrate | 100 | 65 |
| Lactic acid | 100 | 52 |
| Manganese sulphate | All | 65 |
| Sodium hydroxide | 10 | 20 |
| Sodium hydroxide | 25 | No |
| Sodium hydroxide | 50 | No |
| Nitric acid | 5 | 48 |
| Phosphoric acid | 85 | 65 |
| Potassium dichromate | 100 | 60 |
| Potassium nitrate | All | 65 |
| Propylene glycol | 100 | 65 |
| Sulfuric acid | 25 | 52 |
| Water (fresh) | 100 | 70 |
| Vinegar | 100 | 65 |
| Zinc sulphate | All | 65 |

"All" in the concentration column refers to concentrations from 0-99 in water.
"100" in the concentration column refers to concentrations of pure chemicals.

Although the greatest care was taken to compile this datasheet, all values and specifications are specifications of performance and are subject to verification by the production of certified test results of actual products manufactured pursuant to any order.

