



PERMASTRUCT®

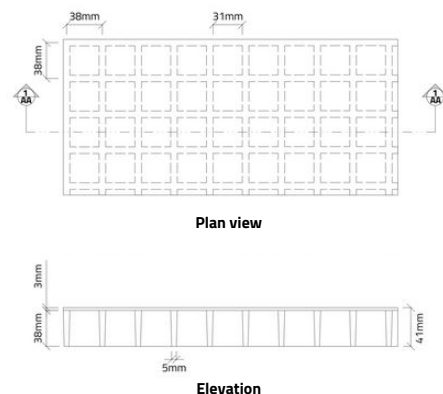
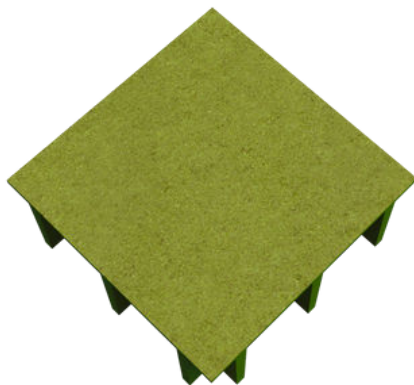
Alternative, Clever

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: 41mm Deep X 38mm Solid Top Grating

Product specifications:

Product code:	GST41Y
Panel size:	1220 x 3660 mm
Mesh size:	38 x 38 mm
Thickness:	41 mm
Resin type:	Isophthalic polyester (ISO)
Top surface:	Grit
Colour:	Yellow, RAL 1003
Open area:	0%
Weight grating panel:	133.9 kg (approx)
Surface area panel:	4.47 m ²
Weight:	30 kg/m ² (approx)
Slip rate:	P5
Recommended clips:	IFCRC



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 41 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	0.18	0.35	0.61	1.01	1.59	2.38	3.43	4.81
5 kPa	0.30	0.58	1.02	1.69	2.64	3.96	5.72	8.02

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

"All" in the concentration column refers to concentrations from 0-99 in water.

"100" in the concentration column refers to concentrations of pure chemicals.

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

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.

