

Mini Mesh Grating

Datasheet

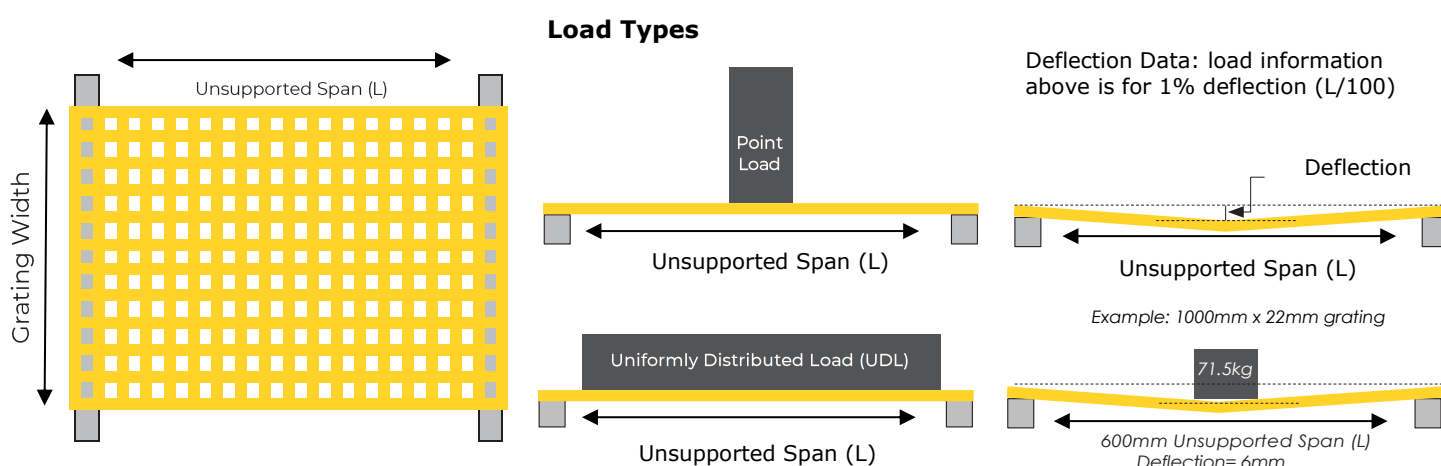


Load & Deflection Data

1000mm Wide Grating

Unsupported Span (L) (unfixed)

Grating Thickness	Self-weight	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
14 mm	10 kg/m ²	Point Load (kg)	650	230	155	95	50	30	10
		UDL (kg/m ²)	1025	365	250	155	80	50	25
22 mm	16 kg/m ²	Point Load (kg)	2885	1030	715	450	245	165	95
		UDL (kg/m ²)	5945	2135	1480	960	520	355	215
30 mm	18.8 kg/m ²	Point Load (kg)	6710	2410	1670	1060	585	400	245
		UDL (kg/m ²)	10740	3860	2675	1705	950	650	405
38 mm	23.1 kg/m ²	Point Load (kg)	11825	4245	2945	1875	1045	715	445
		UDL (kg/m ²)	18920	6805	4720	3010	1685	1160	725



FOR MORE INFORMATION

Call: 01206 396 446
Email: sales@vitalgrp.co.uk
Visit: www.vitalgrp.co.uk



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1200mm Wide Grating

Unsupported Span (L) (unfixed)

Grating Thickness	Self-weight	Load Type	300	500	600	750	1000	1200	1500
14 mm	10 kg/m ²	Point Load (kg)	780	275	190	115	60	35	15
		UDL (kg/m ²)	1250	445	305	190	100	65	35
22 mm	16 kg/m ²	Point Load (kg)	4465	1600	1105	700	385	230	155
		UDL (kg/m ²)	7145	2560	1775	1130	625	425	260
30 mm	18.8 kg/m ²	Point Load (kg)	8055	2890	2005	1275	705	480	295
		UDL (kg/m ²)	12893	4635	3210	2050	1140	780	485
38 mm	23.1 kg/m ²	Point Load (kg)	14185	5095	3530	2250	1255	860	530
		UDL (kg/m ²)	22700	8160	5660	3615	2020	1390	875

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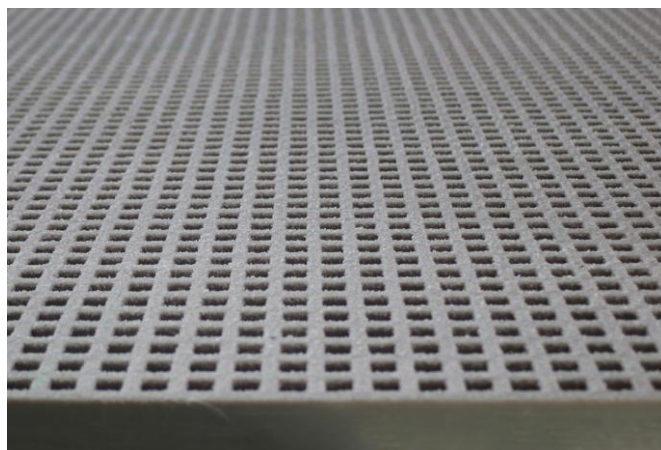
Datasheet



Physical & Mechanical Data

Mechanical Data

- Elastic Modulus 27 GPa
- Flexural Strength 2.8 GPa
- Tensile Strength 650 MPa
- Compressive Strength 90 MPa
- Dielectric Strength 18 KW/mm
- Specific Gravity $1.5 \div 1.7$
- Thermal Expansion Factor 13×10^{-6} mm/mm °C
- Water Absorption 0.1% + 0.3% x 24 hours (ISO R62)
- Operating Temperature -100°C to + 180°C

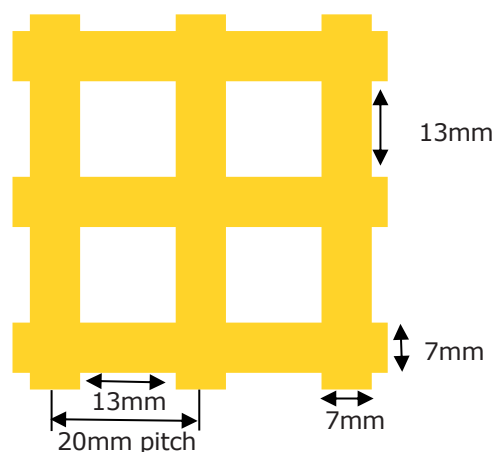


Physical Data

Grating Depth (mm)	Grating Pitch (mm)	Bar Thickness		Per 300mm of Width				No. of bars per 300mm	% Glass Content	Weight (kg/m²)	% Open Area
		Top	cm²	cm³	cm⁴	El kg/m²					
14	20	7	5					15	32.3		42
22	20	7	5	14.8	4.2	5.5	78.1	15	32.3	16	42
30	20	7	5	17.9	9.3	17.5	250	15	32.2	18.8	42
38	20	7	5	21.2	14.7	30.8	448	15	32.2	25.5	42

Manufacturing Tolerances

- Standard Panel Size = +2mm, -0mm
- Cut Panel Size = ±3mm
- Thickness = ±1mm
- Mesh Pattern = ±0.5mm



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