

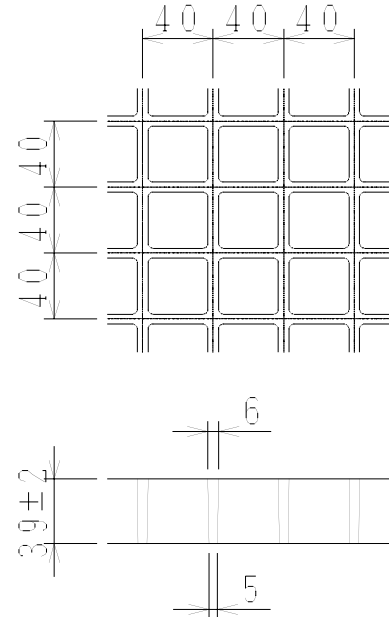
# FRP Grating

Nextep FRP grating is manufactured by interlacing reinforcing glass fibre strands within a polyester resin. Gratings produced using this technique yield a product having 25-35% (by total weight) of fibreglass reinforcement. All grating is manufactured from a premium grade thermosetting polyester resin, thermally cured in the mould. For fire retardant protection, the resins used are complete with antimony trioxide to obtain Class 1 Fire Rating of 25 or less as per ASTM-E-84.

Colour pigmented throughout the resin will be light grey. Ultraviolet inhibitors are included to meet the specifications of UL-94-VO. Products manufactured to these specifications can expect a life rating B, or 50 years before rehabilitation is required.

The addition of a UV stabilizer to a resin does not completely eliminate the effects of UV exposure. These effects may include colour shift (yellowing, darkening or bleaching), decreased surface gloss, and/or increased haze.

For extreme circumstances, a surface veil or coating should be used to prevent product degradation. Note: this product may also require re-application after several years in severely exposed areas.



## LOAD TABLES

Panel Size		3007 x 1007 x 25mm	3007 x 1007 x 40mm
<i>Bearing Bar</i>	Width	6mm	6mm
	Space – Centres	40mm	40mm
<i>Cross Bar</i>	Width	6mm	6mm
	Space – Centres	40mm	40mm
<i>Top Surface</i>		Plain	Plain
<i>% Open Area</i>		70%	70%
<i>Weight</i>		12.2 kg/m <sup>2</sup>	18.1kg/m <sup>2</sup>

	Span (mm)	Per metre width (kg)	Per metre width (kg)
	Concentrated load at <b>1%</b> deflection	300	2567
450		1141	2563
600		642	1442
750		411	923
900		285	641
1050		210	471
1200		160	300

Concentrated load at <b>10:1</b> safety factor	300	1003	1540
	450	669	1027
	600	502	770
	750	401	616
	900	334	513
	1050	287	440
	1200	251	385

Uniform load at <b>1%</b> deflection	300	13651	30837
	450	4075	9137
	600	1706	3855
	750	874	1974
	900	506	1142
	1050	318	719
	1200	213	482

Uniform load at <b>10:1</b> safety factor	300	6667	10178
	450	2963	4523
	600	1667	2544
	750	1067	1628
	900	741	1130
	1050	544	831
	1200	417	636