

# Floor Plate



Fiberplate® is manufactured by building up multiple layers of GRP reinforcement and specially-formulated resins. The result of this process is a solid composite panel offering both bidirectional strength and corrosion resistance.

This specially designed product is nonporous, is easily cleaned by a high pressure washer and can withstand cleaning solutions. Available in all moulded grating resin systems (see page 7). Standard panel sizes are (mm) 914 x 3048, 1219 x 2438, 1219 x 3658 and 1829 x 3048. (Custom sizes also available.)

## Fiberplate® Load and Deflection Data

\*Important: 3.2mm Plate designed for use as covering only; not recommended for load bearing service.

Depth (mm)	Span (mm)	Concentrated Load-Full Panel								Uniform Load-Full Panel						Concentrated Load Required to Produce Deflection Equal to 1% of Span (kN)	
		Maximum Load (kN)		Load (kN)						Maximum Load (kN/m <sup>2</sup> )		Load (kN/m <sup>2</sup> )					
		Norm <sup>1</sup>	Firm <sup>2</sup>	0.5	1.0	1.5	2.5	4.0	Norm <sup>1</sup>	Firm <sup>2</sup>	2.0	3.0	4.0	5.0	7.0		
6.4	400	0.9	0.5	1.9	3.5	5.1	8.2	--	8.2	4.8	0.9	1.1	1.3	1.5	1.9	1.2	
	600	0.8	0.5	2.9	6.0	9.0	--	--	1.5	0.8	6.6	9.6	12.5	--	--	1.0	
	800	0.6	0.4	3.6	8.8	--	--	--	--	--	--	--	--	--	--	0.7	
9.5	400	2.2	1.4	0.9	1.6	2.3	3.7	5.8	11.8	7.4	0.6	0.9	1.2	1.5	2.0	2.8	
	600	1.2	0.7	2.3	4.1	5.8	9.4	--	3.1	2.0	3.0	4.5	6.0	7.5	10.5	1.4	
	800	0.7	0.4	4.1	7.9	11.7	--	--	2.0	1.2	7.6	11.5	--	--	--	0.8	
	1000	0.7	0.5	6.1	--	--	--	--	0.9	0.5	--	--	--	--	--	0.9	
12.7	400	4.1	2.6	< 0.3	0.5	0.8	1.5	2.6	14.8	6.0	0.9	1.0	1.0	1.1	1.2	5.6	
	600	2.4	1.5	0.8	1.7	2.6	4.5	7.4	5.6	3.1	2.4	3.1	3.7	4.4	5.7	3.0	
	800	1.3	0.8	2.3	4.4	6.5	10.6	--	4.6	4.1	4.6	6.6	8.6	10.6	--	1.4	
	1000	1.1	0.7	4.7	8.5	12.3	--	--	0.6	-0.6	7.6	11.7	--	--	--	1.4	
19.1	400	10.8	6.8	< 0.3	0.4	0.6	0.9	1.4	47.4	29.6	< 0.3	0.3	0.4	0.5	0.8	12.9	
	600	6.3	3.9	0.6	0.9	1.3	2.0	3.0	11.9	7.4	1.0	1.4	1.8	2.1	2.9	7.6	
	800	5.6	3.5	0.8	1.3	1.9	3.0	4.7	7.0	4.4	2.1	2.9	3.7	4.4	6.0	7.1	
	1000	4.4	2.7	0.9	1.6	2.4	4.0	6.3	1.9	1.2	3.7	4.9	6.2	7.4	9.9	5.9	

Notes:

- (1) Normal load is the load which will produce a L/D of 125 or 9.5mm maximum.
- (2) Firm is the load which will produce a L/D of 200 or 6.4mm maximum.
- (3) Loads for Short Span Normal and Firm have been limited to allow for shearing effects.
- (4) Clear Span is 51mm less than width of grating.

### Plate Weight

3.2mm - 6.4 kg/m<sup>2</sup>, 6.4mm - 12.7 kg/m<sup>2</sup>, 9.5mm - 19.0 kg/m<sup>2</sup>,  
13mm - 25.4 kg/m<sup>2</sup>, 19mm - 38.1 kg/m<sup>2</sup>

### Installation

- Install using ordinary hand tools and masonry blade
- Fastener assembly kits may be ordered directly from Fibergate
- Space fasteners a minimum of 305mm-610mm apart
- On concrete, use masonry bit and concrete anchor bolts
- On steel, wood or GRP, drill and bolt with truss head assembly
- It is recommended that all cut edges and holes be sealed

