

GRP DATASHEET

GRP SELECTION

When choosing the correct depth of GRP to install, the factors to take into account should include :-

- Intended use and associated loading requirements.
- Types of equipment that will be placed on it in both the temporary and permanent condition.
- Cuts required for M&E and services.

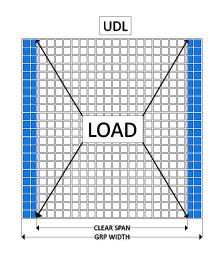
GRP LOADING STANDARDS

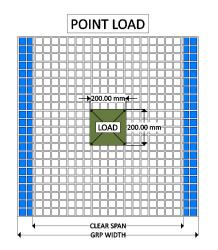
- 1 BS 4592 PART 0+A1:2012 and BSEN14122 standards for walkways & working platforms state the minimum loads to take into account are:
- 2.0kN/m² Uniformly Distributed Load (UDL) to account for structure.
- 1.5kN concentrated load applied in the most unfavourable position over an area of 200mm² of the floor.
- 2 Standard GRP design deflection allowance is L/200 up to a maximum of 10mm.

LOADING DEFINITIONS

Uniformly Distributed Load (UDL) - Where the load is considered evenly distributed across a defined area, usually denoted as per m².

Point Load - A static load considered to act over a small area (in this case 200mm²) when compared to the total surface area to which the load is applied.





Load Table	251	mm	38r	nm	50n	nm	28mm Sc	olid Top	41mm S	Solid Top
Mesh Size	38	x 38	38 >	38	50 x	50	38 x	38	38 :	x 38
Open Area	70%		70%		78%		Closed top		Closed top	
Weight kgpm²	13	3.5	18.5		21.2		24		30	
Clear Span (W)	UDL kg	PL kg	UDL kg	PL kg	UDL kg	PL kg	UDL kg	PL kg	UDL kg	PL kg
600mm	425	161	1589	589	2472	1207	425	161	1589	589
750mm	217	103	917	377	1877	772	217	103	917	377
1000mm	N/A	N/A	387	212	792	434	N/A	N/A	387	212
1200mm	N/A	N/A	224	147	458	301	N/A	N/A	224	147
1500mm	N/A	N/A	N/A	N/A	234	193	N/A	N/A	N/A	N/A

The data listed above is for general guidance only. Due to environmental & operational conditions as a third party supplier, First Fix Formwork Ltd is unable to guarantee that the performance of the grating will correspond to the loadings indicated above.

MAKE THE FIRST FIX COUNT



Call: 01782 757142

sales@firstfixformwork.co.uk



GRP H&S DATASHEET

Section 1 - Physical / Chemical Characteristics / Reactivity Data

Resin type Isophalic polyester

Solubility in water No

Appearance and odour 1 phase solid with various colours and possible slight odour

% Volatiles by volume None (75°F)

6 - 8 pH (Neutral =7) **Evaporation rate** 0

Stable Stability

Hazardous polymerisation Will not occur

Section 2 - Fire and Explosion Hazard

N/A Flash point

Extinguishing Media Water, foam: Type A, B, or C extinguishers

Special fire fighting procedures Use self-contained apparatus

Unusual fire & explosion hazards Heavy smoke, products of combustion (CO, CO2, HBr)

Fire tested ASTM E84 class A, 25 or less

Approvals US Coast Guard, ABS Approved, Det Norsk Veritas

Section 3 - Health Hazard Data / Safe Handling

Threshold limit value N/A

Protective equipment

Dust from grinding or finishing can cause mild irritation to the eyes and Effects of overexposure

skin. Nuisance dust.

Wash skin well without rubbing. For the eyes, use a sterile solution and

flood the eye area. Change clothing after exposure. Apply antiseptic to Emergency first aid procedures

abraded skin areas.

Care should be taken when lifting full sheets and attention paid to any Movement

manual lifting restrictions.

Section 4 - Control Measures

Respiratory Protection Wear respirator mask when cutting: 3M No 4251 is recommended.

Ventilation Cut in a well ventilated area. Use vacuum/dust collector with cutting tools.

Suitable protective clothing covering all exposed body parts should be

worn. Equipment such as safety glasses, cut resistant gloves and respira-

tor mask should be worn when cutting and handling GRP.

Cutting Heavy duty rotary saw with masonry, carbide or diamond coated blade.

Grinding Use coarse grit, open coated (resin) grinding discs.

In corrosive environments cut edges may be coated with resin to prevent **Finishing**

possible corrosion of glass fibres. A light coating of two-part resin or

urethane spray paint is satisfactory, subject to environmental conditions.



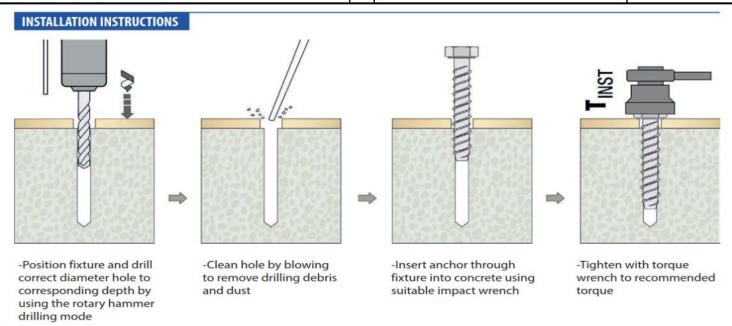
FIXINGS DATASHEET

Zinc Plated Concrete Bolt and Washer





M8/10 x 60mm - 15mm AF Hex Head	Min distance from an edge	50mm
8mm drill diameter	Rec tensile resistance	3.9kN
75mm min hole depth	Rec shear resistance	6.5kN
M10 x 28mm x 2mm zinc plated washer	Rec tightening torque	40(T _{inst})



Fixings	M10 x 50 bolt set	38mm tek screw	75mm tek screw	Domed Washer
Zinc coated	Carbon Steel	A2 Stainless	Carbon Steel	Carbon Steel
Steel thickness	Less than 40mm	4 - 12.5mm	1.2 - 3.5mm	60-
Ult pull out value		10.0kN	6.5kN	U
Tensile strength	3.3kN	5.9kN	2.9kN	1.50 mm 5.30 mm
Shear strength	9.6kN	3.9kN	2.8kN	↓
Number per box	100	100	Boxes of 50 No sets	

MAKE THE FIRST FIX COUNT



Call: 01782 757142



sales@firstfixformwork.co.uk