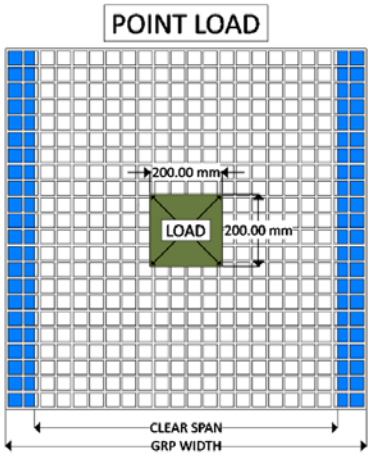

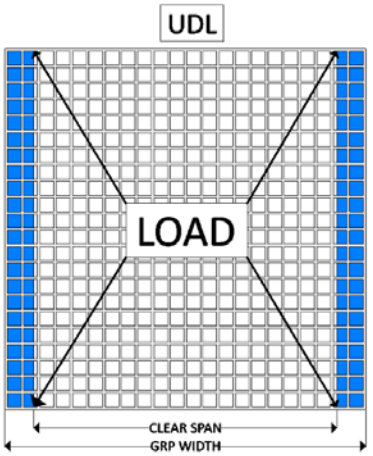

Load Table	25mm		38mm		50mm		28mm Solid Top		41mm Solid Top	
Mesh Size	38 x 38		38 x 38		50 x 50		38 x 38		38 x 38	
Open Area	70%		70%		78%		Closed top		Closed top	
Weight kgpm²	13.5		18.5		21.2		24		30	
Clear Span (W)	**UDL kg**	**PL kg**	**UDL kg**	**PL kg**	**UDL kg**	**PL kg**	**UDL kg**	**PL kg**	**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.

GRP Data Sheet

Loading Information

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.

Please allow ±1mm tolerance

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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 (75^0F)
- pH (Neutral =7): 6 - 8
- Evaporation rate: 0
- Stability: Stable
- Hazardous polymerisation: Will not occur

Section 2: Fire and Explosion Hazard

- Flash point: N/A
- 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
- Effects of overexposure: Dust from grinding or finishing can cause mild irritation to the eyes and skin. Nuisance dust.
- Emergency first aid procedures: Wash skin well without rubbing. For the eyes, use a sterile solution and flood the eye area. Change clothing after exposure. Apply antiseptic to abraded skin areas.
- Movement: Care should be taken when lifting full sheets and attention paid to any manual lifting restrictions.

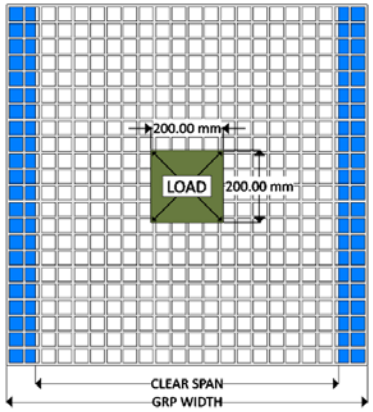
Section 4: Control Measures

- 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.
- Protective equipment: Suitable protective clothing covering all exposed body parts should be worn. Equipment such as safety glasses, cut resistant gloves and respirator 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.
- Finishing: In corrosive environments cut edges may be coated with resin to prevent possible corrosion of glass fibres. A light coating of two-part resin or urethane spray paint is satisfactory, subject to environmental conditions.

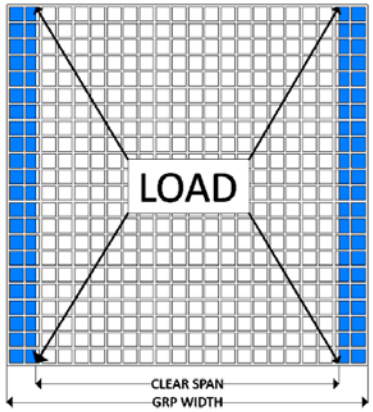
GRP Data Sheet

Health & Safety

POINT LOAD



UDL



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