

DATA SHEET – MARINA DECKING

Fibreglass anti-slip decking has become the ideal sustainable solution to providing a durable decking material along with an excellent anti-slip walking surface. Already successfully installed around the UK's waterways and marinas, on pontoons, jetties, access bridges and ramps

A range of Open mesh panels, from 14mm to 38mm thick are held in stock

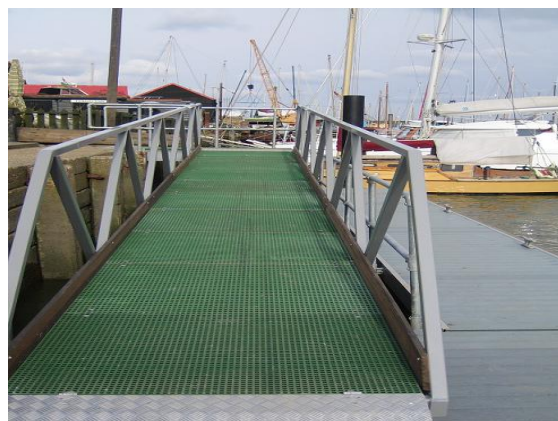
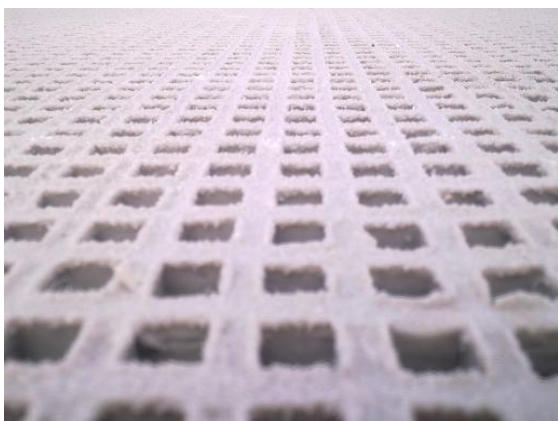


Benefits:

- Anti-slip**
- High Strength**
- Low Maintenance**
- Fire retardant**
- Corrosive resistant**
- UV stable**
- Chemical resistant**
- Anti static**

Raw Material Characteristics

Two main components produce composite GRP: polyester resin and glass fibres. There are several types of resin systems depending on the application: Isophthalic, Orthophthalic, Vinyl ester and Phenolic. Isophthalic & Orthophthalic polyesters are the most widely used resin types and are suitable for most industrial applications. Phenolic & Vinyl ester are available by special order.



Material Characteristics

Quality Assurance

Manufactured according to ISO 9001, the structural integrity of the specified material will remain over a Life span of 25 years plus, under normal environmental and maintained conditions.

Fire Resistance

All products contain Fire Resistant Additive and attain a Euro Class 1 fire rating. To BS EN ISO 9239-1 and BS EN ISO 11925-2.

This is performance is equivalent to ASTM E84 class 1 and BS 476 part 7 class 2 flame spread

Slip Resistance

The integral angular quartz gritted surface has been tested in accordance with BS 7976-2 and certified as providing an exceptional level of slip resistance. Lifespan depends on frequency of use.

Chemical Resistance

Fibreglass Grating is resistant against wide a range of chemicals across wide temperature spectrum. Material can be made of different resin systems to achieve specific chemical resistant properties. Please refer to chemical resistance charts, available upon request.

GRP Characteristics	Unit	Reference
Voltage breakdown	18K volts/mm	ASTM D149
Density kg/m ³	2100	ISO 9001
Thermal Expansion Factor	13 x 10 ⁻⁶ mm/mm °C	ISO 9001
Water Absorption rate	0.45 x 24 hrs	ASTM D570
Operating Temperature	-100 °C to +200 °C	ISO 9001



Load and Deflection table

MARINE DECKING - open hole 12mm x 12mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
14mm	10kg	Point Load	276kg	99kg	69kg	44kg	25kg	17kg	11kg
		UDL	932kg	334kg	194kg	99kg	42kg	24kg	12kg
22mm	14.5kg	Point Load	879kg	316kg	220kg	141kg	79kg	55kg	35kg
		UDL	1884kg	1062kg	615kg	315kg	390kg	77kg	39kg
30mm	18kg	Point Load	1950kg	925kg	643kg	411kg	231kg	161kg	103kg
		UDL	4056kg	2433kg	1804kg	924kg	390kg	226kg	115kg
38mm	24kg	Point Load	3101kg	1861kg	1294kg	828kg	466kg	324kg	207kg
		UDL	6450kg	3870kg	3225kg	1861kg	785kg	454kg	233kg
Calculations are based around a 1% Deflection when the load (kg) is applied									
MARINE DECKING - open hole 8mm x 8mm			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
22mm	15kg	Point Load	1006kg	362kg	251kg	161kg	91kg	63kg	40kg
		UDL	2164kg	1220kg	706kg	361kg	153kg	88kg	45kg
30mm	20kg	Point Load	2049kg	972kg	675kg	432kg	243kg	169kg	108kg
		UDL	4261kg	2557kg	1896kg	971kg	410kg	237kg	121kg
Calculations are based around a 1% Deflection when the load (kg) is applied									
MARINE DECKING - solid top			Unsupported Span (unfixed) over a 1m length						
Panel Thickness	Weight kg/m ²	Load Type	300mm	500mm	600mm	750mm	1000mm	1200mm	1500mm
18mm	14kg	Point Load	875kg	315kg	219kg	140kg	79kg	55kg	35kg
		UDL	2302kg	1062kg	615kg	315kg	133kg	77kg	39kg
30mm	20kg	Point Load	4057kg	2010kg	1396kg	894kg	503kg	349kg	223kg
		UDL	8438kg	5063kg	3754kg	1922kg	811kg	469kg	240kg
43mm	25kg	Point Load	7729kg	4637kg	3245kg	2077kg	1168kg	811kg	519kg
		UDL	16075kg	9645kg	8038kg	5248kg	2214kg	1281kg	656kg
Calculations are based around a 1% Deflection when the load (kg) is applied									

Product Specifications

Manufacturing Tolerances

Standard Panel Size	+2mm -0mm
Cut Panel Size	+2mm -2mm
Thickness	+1mm -1mm
Mesh Pattern	+0.5mm-0.5mm

Mesh Sizes:

All thickness panels have 40 x 40mm between centres of load bars and 12 x 12mm or 8 x 8mm open holes

Product Colours

Decksafe keep a range of colours on the shelf. Grey and Green are the most common, although we also stock beige, yellow & black in other products.

Marina decking stock colours are grey, green and beige, but if required, these can be pigmented to any RAL colour

Product Surfaces

Surfaces can be manufactured made to suit custom requirements, including minimum and maximum coarse grit, smooth gel coat or a natural concave finish.

Hazard Identification

None by contact. Dust produced by cutting or grinding can penetrate pores and skin causing itching. Avoid breathing dust, skin contact or dust inhalation when cutting. People with a condition that could be aggravated by dust should avoid cutting or grinding.

Handling/Cutting

Wear masks and goggles when cutting or grinding. Cover exposed parts of the body. Wear gloves when moving or lifting. Use diamond / tungsten carbide tipped tools for cutting.

For further technical information or support:

Please visit our website www.deck-safe.co.uk
Email sales@deck-safe.co.uk
Or telephone the office on 01206 322899