



# Glasroc Marine

## Product Data Sheet

### Introduction

#### Characteristics

Glasroc Marine is a glass fibre reinforced gypsum (GRG) board consisting of a gypsum core reinforced with glass fibre rovings and incorporating a glass fibre tissue immediately below both surfaces of the board. Boards are available in square or tapered edge (except 6mm) profile.

#### Applications

This strong yet flexible, non-combustible gypsum board is suitable for constructing internal linings in the public areas of passenger ships, including curved and profiled applications using 6mm board, and providing high levels of fire and impact protection with a good degree of tolerance to moisture.

#### Appearance

Off-white surface

#### Board range

Width mm	Length mm	Edge type
<b>6mm board</b>		Kg/m <sup>2</sup> = 6.0 R (m <sup>2</sup> K/W) = 0.02
1200	2400	S/E
	3000	S/E
<b>10mm board</b>		Kg/m <sup>2</sup> = 8.5 R (m <sup>2</sup> K/W) = 0.03
1200	2400	T/E S/E
	3000	T/E S/E
<b>12.5mm board</b>		Kg/m <sup>2</sup> = 10.6 R (m <sup>2</sup> K/W) = 0.04
1200	2400	T/E S/E
	3000	T/E S/E

T/E = Tapered Edge. S/E = Square Edge. **NB** Bespoke sizes are also available.

### Finishing

#### Board types

Tapered Edge profile boards are the preferred choice when the joints are to be taped and filled with Gyproc Joint Cement for a surface that is ready for direct decoration. Square Edge boards are primarily used as a substrate for laminated finishes. They can also be used for a taped and filled finish using greater care and attention to achieve a flat finish.

#### Jointing

Gyproc jointing materials produce durable joint reinforcement and a smooth, continuous, crack-resistant surface ready for priming and final decoration. Gyproc Joint Cement is ideal for jointing Glasroc Marine.

Gyproc Joint Cement is applied to the joint and paper-based Gyproc Joint Tape, bedded in to provide the highest resistance to cracking. Alternatively, self-adhesive glass mesh tape can be applied over the joints and a coat of Gyproc Joint Cement applied. The joint treatment is allowed to dry and lightly sanded to remove any high spots. For internal angles, the use of Gyproc Joint Tape is preferred over glass mesh. Its crease makes it easier to achieve a neat, straight joint with higher cracking resistance.

For external angles, Gyproc Corner Tape, Gyproc No-Coat Ultraflex 325 or Gyproc Drywall Metal Angle Bead can be used, bedded in Gyproc Joint Cement. A second coat of Gyproc Joint Cement is applied and feathered out to a width of approximately 200mm on each side of the joint. The joint treatment is allowed to dry and lightly sanded.

A third application of Gyproc Joint Cement may be necessary. Where boards are fixed with any steps, gaps or minor damage, apply as the second coat but slightly wider. When the final application has dried and been sanded smooth, the surface is ready for decoration.

#### Decoration

After the joint treatment has dried, decoration, including any preparatory work, should follow with minimum delay.

#### Repair

**Minor damage** - Lightly sand the surface to remove burrs and fill flush with two applications of Gyproc Joint Cement.

**Deep indents resulting from impact** - Check the board core to ensure that it is not shattered. If intact, apply a coat of Gyproc Joint Filler followed by the procedure for repairing minor damage, as outlined above, once set / dry.

**Extensive damage** - where damage is more extensive, it may be necessary to replace that area of board. It is important that the replacement board is of the same type as specified and installed. Cut out the affected area back to the nearest framing member. Replace the board, accurately cutting and screw-fixing the same type and thickness of board. Fill edge joints, then tape and finish in the recommended way and finally redecorate as required.

## Standards

EN standard EN 15283-1 Gypsum boards with fibrous reinforcement – Definitions, requirements and test methods – Part 1: Gypsum boards with mat reinforcement.

Type GM: Gypsum boards with mat reinforcement.

Type H1 (6mm only): Gypsum board with mat reinforcement with reduced water absorption rate.

Type F: Gypsum boards with mat reinforcement with improved core cohesion at high temperatures.

Module B certificate MED 0950183 / M1.

Module D certificate MED 1200003.

## Board performance

### Fire protection

Glasroc Marine fulfils the requirements of MED module B for non-combustibility. In addition, it has a reaction to fire performance and classification as detailed below.

### Reaction to fire test performance

Standard	Performance
EN 15283-1	Classification of reaction to fire performance for Glasroc Marine, in accordance with BS EN 13501-1: 2007+A1: 2009

### Thermal conductivity

 Glasroc Marine - 0.30W/mK.


### Impact resistance

Glasroc Marine offers a high degree of impact resistance. It also has excellent mechanical properties, is durable and therefore not prone to cracking or shattering when handled or during fixing.

### Degree of curvature

In common with other sheet materials, board ends have a tendency to remain straight. The minimum radius, therefore, will be influenced by the board characteristics, the length of curve, the support centres and the occurrence of board joints.

### Minimum bending radii and stud centres

Board type	Thickness mm	Minimum radius <sup>1</sup> mm	Stud centres <sup>2</sup> mm
	Glasroc Marine	6	600
		10	2500
		12 (2 x 6)	600
		12.5	2700

<sup>1</sup> Concave or convex.

<sup>2</sup> For any radius 7000mm or more, studs can be installed at 600mm centres irrespective of board thickness.

### Limitations of use

Glasroc Marine is unsuitable for use in areas subject to continuously damp or humid conditions and must not be used to isolate dampness. Glasroc Marine boards are not suitable for use in temperatures above 49°C, but can be subjected to freezing conditions without risk of damage.

## Installation

### General

It is important to observe appropriate health and safety legislation when working on site, e.g. personal protective clothing and equipment. The following notes are intended as general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

Glasroc Marine should be stored on a firm, flat and level surface. If the boards are temporarily stored outside they should be kept clear of the ground and securely covered with an anchored polythene sheet or tarpaulin to protect them from dampness and inclement weather.

### Handling

Manual off-loading of this product should be carried out with care to avoid unnecessary strain. For further information please refer to the Manual Handling section of the British Gypsum SITE BOOK or Manual Handling Guide, available to download from [www.british-gypsum.com](http://www.british-gypsum.com)

### Cutting

This product may be cut using a plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes for switch or socket boxes should be cut out before the boards are fixed using a utility saw or sharp knife. When cutting boards, power and hand tools should be used with care and in accordance with the manufacturers' recommendations. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used. Consider monitoring of exposure levels during this activity.

### Fixing

#### General

- Fix boards with smooth surface side out to receive joint treatment
- Lightly butt boards together. Never force boards into position
- Install fixings not closer than 10mm from the edge of the board and 13mm from cut edges
- If using multi-layer boarding, stagger horizontal and vertical board joints between layers by a minimum of 600mm
- Locate boards to the centre line of framing where this supports board edges or ends
- Glasroc Marine boards have tolerance to moisture but they should not be considered as a means of isolating dampness or used in areas subject to persistently damp or humid conditions

#### Screw-fixing to metal framing

- Select appropriate length British Gypsum screws to give a nominal 10mm penetration into the metal
- Where auto-feed power screwdrivers are employed, use British Gypsum Drywall Screws (supplied in strips)
- Use British Gypsum Drywall Screws for fixing to metal framing up to and including 0.7mm gauge
- Use British Gypsum Jack-Point Screws for fixing to metal framing 0.8mm gauge or greater



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- Energy efficiency and environmental benefits
- Weight reduction and cost efficiency
- Fire safety and security
- Aesthetics and comfort

[www.saint-gobain-marine.com](http://www.saint-gobain-marine.com)

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For a comprehensive and up-to-date library of information visit the British Gypsum website at: [www.british-gypsum.com](http://www.british-gypsum.com)

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