

General Description

DensGlass® Sheathing is a high-performance sheathing board that consists of a fibreglass mat with a gypsum core, designed to provide a high degree of protection from the elements in external cladding constructions.

Manufactured in the USA Densglass® Sheathing is America's number one architecturally specified fibreglass mat gypsum sheathing.

General Applications

Sheathing board to:

- Rainscreen cladding.
- Masonry facades.
- Fibre Cement sidings - RCM Supertech Weatherboard.
- Timber cladding.
- External Wall Insulation System

Product Appearance

The unique gold fibre mat to DensGlass® Sheathing provides easy differentiation for this sheathing board with a track record of over thirty years, with its ability to resist moisture and UV light.

Composition

DensGlass® Sheathing Boards comprise non-combustible glass-fibre reinforced; moisture resistant gypsum fibreboard encased by hydrophobic-treated glass mat liners.

General Technical Properties	Unit	Value	Applicable Standard
Nominal Density (Oven Dry)	kg/m ³	750	EN 15283-1:2008 + A1:2009
Thermal Conductivity λ	W/mk	0.21	
Moisture Content	%	TBA	
Vapour Resistance	MNs/g	0.39	BS EN ISO 12572:2016
Water Vapour Transmission Rate (v)	g/m ² /day	368	BS EN ISO 12572:2016
Water vapour resistance factor μ-value	n/a	6	BS EN ISO 12572:2016
Diffusion Equivalent Air layer thickness (sd)	m	0.072	BS EN ISO 12572:2016
Surface Condition	Front - Back -	Fleeced - Matt Fleeced - Matt	
Dimensional Conformity			
Nominal Thickness	mm	12.7	
Nominal Length	mm	2400	
Nominal Width	mm	1200	
Weight per m ²	Kg	9.3	
Bending radius	mm	1900	Reduce stud centres & double screw @board ends
Compressive Strength	kPa	3445	
Linear expansion with moisture change	mm/mm %RH)	6.25 x 10 ⁻⁶	
Coefficient of thermal expansion	mm/mm/°C	15.3 x 10 ⁻⁶	

Durability

Moisture Resistance	Class	GM-H1	EN 15283-1:2008 + A1:2009
Biological/Mould Resistance	Level	10	ASTM D3273
Exposure	months	12	
Heat-Rain performance	n/a		
Warm water performance	n/a		
Freeze-thaw performance	n/a		
Soak-dry performance	n/a		

Reaction to Fire

Combustibility	Class	A1	NON- COMBUSTIBLE	BS EN 13501-1:2018+A1:2009
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Fire Resistance

Unloaded	Integrity	contact RCM Technical Support		BS EN 1364-1:2015
	Insulation	contact RCM Technical Support		
Loaded	Integrity	contact RCM Technical Support		BS EN 1365-1:2012
	Insulation	contact RCM Technical Support		
Classification		GM-F		EN 15283-1:2008 + A1:2009

Certification & Warranty

CE marked	Yes		
Certification	Pending		BBA
Warranty	12 years		

Limitations of Use

Installation	See screw fixing guide at www.buildingboards.co.uk & Recommendations and limitations of applications in this document.
Water protection	Use only cold/adhesive applied EDPM and waterproofing materials.
Fixings/loads	All loads should be fixed through DensGlass® Sheathing and taken back to the structural framing. Use suitable furring's when fixing to a masonry background. To avoid moisture transmission.
Recommendations and limitations of applications	DensGlass® Sheathing is not intended for roofing applications. DensGlass® Sheathing is not intended for interior or exterior tiling applications. DensGlass® Sheathing is not intended for use below DPC. The following recommendations and limitations are important to ensure the proper use and benefits of DensGlass® Sheathing. Failure to strictly adhere to such recommendations and limitations may void the limited warranty. DensGlass® Sheathing is resistant to normal weather conditions, but it is not intended for immersion in water. Cascading roof/floor water should be directed away from the sheathing until appropriate drainage is installed. Avoid any condition that will create moisture in the air and condensation on the exterior walls during periods when the exterior temperature is lower than the interior. The use of forced air heaters creates volumes of water vapour which, when not properly vented, can condense on building materials. The use of these heaters and any resulting damage is not the responsibility of the supplier. Consult heater manufacturer for proper use and ventilation. When DensGlass® Sheathing panels are used in slanted wall applications, that portion of the wall must be temporarily protected from the elements by the use of a water-resistant barrier prior to application of the cladding. Do not allow water to pond or settle on sheathing. Also, exposed wall ends such as those that may be found in parapets must be covered to prevent water from infiltrating the cavity with EDPM. Do not laminate DensGlass® Sheathing to masonry surfaces; use furring strips or framing. DensGlass® Sheathing should not be used in lieu of plywood where required for pattrass or noggins. For all installations, design details such as fasteners, sealants and control joints per system specifications must be properly installed. Openings and penetrations must be properly flashed and sealed. Fixings should be flush to the face of the board, not countersunk. When DensGlass® Sheathing is used in facade construction, install boards so board joints are tightly butted together on both horizontal and vertical joints, finished with RCM FR-PRO sealant or RCM Joint Tape. As a best practice that cut sheathing edges should be sealed with a proprietary sealer applied around exposed edges, such as openings, to ensure protection against water ingress. When installing the boards in close proximity to certain flue pipes or heat-producing appliances, the follow provisions of the national Building Regulations. Boards cannot be left permanently exposed.

Health & Safety

see separate msds available at

www.buildingboards.co.uk

Handling & Storage

Handling	Consider a two man lift to avoid strain. When cutting the wearing of goggles, mask, gloves and safety glasses are essential.
Storage	The boards must be stored on a firm, flat and level surface. If the boards are temporarily stored outside they must be sufficiently supported off the ground and covered by a securely anchored polythene sheet or tarpaulin to protect them from dampness, weather, contamination and mechanical damage, eg from construction traffic. Packs of boards should be stacked no higher than two pallets from the ground for safe handling on site. This can be increased to four pallets in warehousing, providing the floor loading is checked as being adequate.
Cutting	DensGlass® Sheathing may be cut using the score and snap method, no power tools are required.
Screws	Fixings at the required centres - RCM Gypsum Screws self-drilling screws with 1000-hour salt spray 0.7 - 3.0mm SFS. (see fixing guide for further details) Screws to be installed flush to the board surface
Joints	Lightly butt joints finished with RCM Fire Sealant or RCM Tape, dependent on fire and or air leakage requirements.
Recycling	Boards can be recycled - Please contact your waste provider.

DISCLAIMER OF LIABILITY

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