

RCM (Roofing and Cladding Materials Ltd)

Technical Data Sheet



ISO No. 5130

Version 1

Date prepared: April 2023

Trade Name: DensGlass Sheathing

Product
Name:

DensGlass

General Description

DensGlass Sheathing is a high performance, A1 Fire Rated 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.

Widely recognised by the GOLD colour, DensGlass fibreglass mat gypsum sheathing board, has an exemplary track record that spans more than 30 years in the US market place and now available in UK exclusively from Benx.

Applications

- Sheathing board to
- Rainscreen cladding
- Masonry facades
- Fibre Cement sidings – RCM Supertech Weatherboard
- Timber cladding
- External Wall Insulation System

Appearance

The unique gold fibre to DensGlass Sheathing provides easy differentiation for this sheathing board with a track record of over 30 years, with it's 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.

Technical Information

	Value/Unit	Applicable Standard
Nominal Density (Oven Dry)	≥1.2 g/cm ³	EN15283-1:2008 + A1:2009
Thermal Conductivity	0.21 W/mk	
Moisture Content	TBC	
Vapour Resistance	0.39 MNs/g	BS EN ISO 12572:2016
Water Vapour Transmission Rate (v)	368 a/m ² /dav	BS EN ISO 12572:2016
Water Vapour Resistance Factor μ-value	6	BS EN ISO 12572:2016
Diffusion Equivalent Air Layer Thickness	0.072m	BS EN ISO 12572:2016
Surface Condition	Fleeced - Matt - Front Fleeced - Matt - Back	
Dimensional Conformity		
Nominal Thickness	12.7mm	
Nominal Length	2400mm	
Nominal Width	1200mm	
Weight per m ²	9.3kg	
Bending radius	1900mm	Reduce stud centres & double screw at board ends
Compressive Strength	3445 kPa	
Linear expansion with moisture change	6.25 x 10 ⁻⁶ mm/mm%RH	
Coefficient of thermal expansion	15.3 x 10 ⁻⁶ mm/mm/°C	

Durability

	Value/Unit	Applicable Standard
Moisture Resistance	GM-H1 Class	EN 15283-1:2008 + A1:2009
Biological/Mould Resistance	10 Level	ASTM D3273
Exposure	12 Months	
Heat-Rain Performance:	N/A	
Warm Water Performance:	N/A	
Freeze-thaw performance:	N/A	
Soak-dry Performance:	N/A	

Reaction to Fire

Combustibility	A1 Non-Combustible	BS EN 13501-1:2018 + A1:2009
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Fire Resistance

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

Certification & Warranty

CE Marked	Yes	
Certification	Yes	BBA Certificate 21-5958
Warranty	12 Years	

Limitations of Use

Recommendations and Limitations of use	<p>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.</p> <p>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.</p> <p>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 vapor 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.</p> <p>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.</p> <p>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 EPDM.</p> <p>Do not laminate DensGlass Sheathing to masonry surfaces; use furring strips or framing.</p> <p>DensGlass Sheathing is not intended for roof applications.</p> <p>DensGlass Sheathing is not intended for interior or exterior tile applications.</p> <p>DensGlass Sheathing should not be used in lieu of plywood where required.</p> <p>Do not apply DensGlass Sheathing below DPC.</p> <p>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.</p> <p>Fixings should be flush to the face of the board, not countersunk.</p> <p>When DensGlass Sheathing is used in façade 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.</p> <p>As a best practice cut sheathing edges should be sealed with a proprietary sealer applied around exposed edges, such as openings, to ensure protection against water ingress.</p> <p>When installing the boards in close proximity to certain flue pipes or heat-producing appliances, follow the provisions of the national building regulations.</p> <p>Boards cannot be left exposed.</p>
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Health & Safety

See separate safety data sheet.

Handling & Storage

Handling Storage	<p>Consider a two man lift to avoid strain.</p> <p>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.</p> <p>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.</p>
Cutting Screws	<p>DensGlass Sheathing may be cut using the score and snap method, no power tools are required.</p> <p>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)</p> <p>Screws to be installed flush to the board surface.</p>
Joints Recycling	<p>Lightly butt joints finished with RCM Fire Sealant or RCM tape, dependent on fire or air leakage requirements.</p> <p>Boards can be recycled - Please contact your waste provider.</p>

DISCLAIMER OF LIABILITY

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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