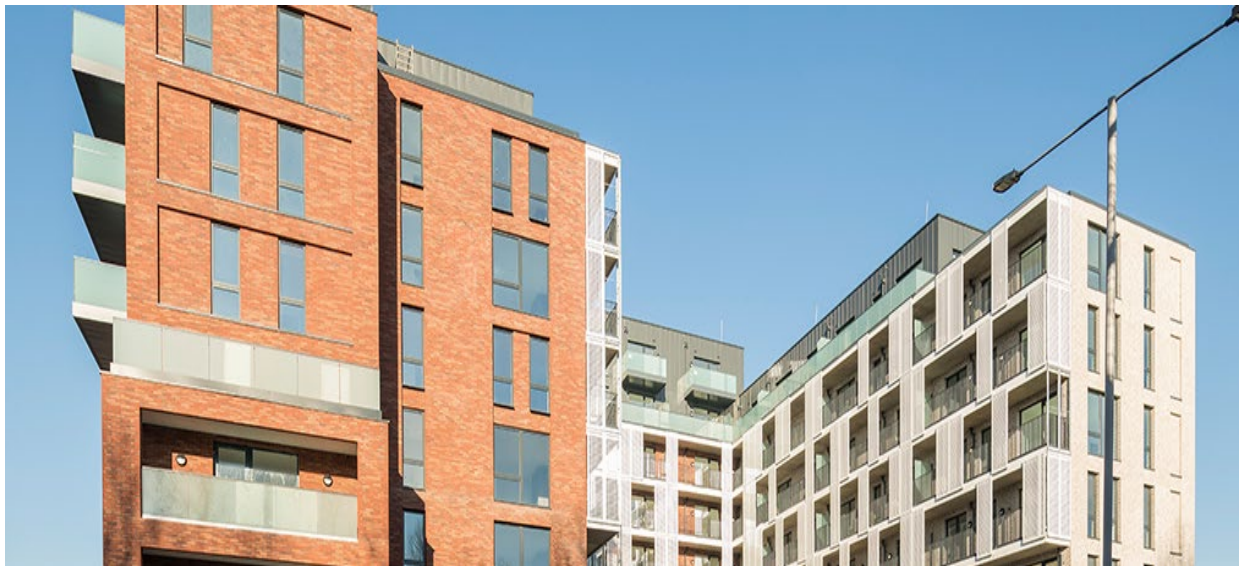




Benx Building Boards Installation Manual **Densglass** Rigid Sheet Sheathing



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Supporting Links
[Technical Downloads](#)
[NBS Plus – SPS Envirowall](#)
[NBS Plus – RCM](#)

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Project Specification Revision Record (for use on project specific specifications)

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0	17/08/2023	First Issue	DS	MT	DS

Quality Assurance Note: -

The following method statement, installation guidelines should be read in conjunction with Benx Quality Assurance documentation.

Benx ISO CERTIFICATION

- ISO 14001 - ENVIRONMENTAL REGISTERED COMPANY CERTIFICATE No. SP240368
- ISO 9001 - REGISTERED COMPANY CERTIFICATE No. SP240367
- ISO 45001 - HEALTH & SAFETY CERTIFICATE
- ISO 50001 - ENERGY MANAGEMENT

PRODUCT DESCRIPTION

RCM Densglass is a high-quality glass fibre reinforced gypsum board for use as a non-loadbearing sheathing board on the external face of inner leaf walls of timber- and lightweight steel-frame constructions.

RCM Densglass can be cut, drilled, and fastened using standard drywall tools.

Fire classification to EN 13501-1 class A1

DIMENSIONS

RCM Densglass

Thickness: 12.7 mm

Standard Board Sizes: 2400 x1200mm, 2700 x1200mm, 3000x1200mm

ACCESSORIES

Screws

Timber Framed Structures: RCM FIX005 SCREW Ø4.2x42mm and BENX approved equivalent.

Steel Framed Structures: RCM FIX018 Self drilling SCREW Ø4.2x32mm and BENX approved equivalent.

Accessories

Sealing RCM Products:

- FR PRO Low modulus silicone sealant fire rating 240 minutes,
- Nullifier: Low modulus silicone sealant fire rating 240 minutes.

Taping RCM Products: Applicable for all joint parameters minimum tape width 60mm and max.150mm

- RCM 315 acrylic self-adhesive tape 60, 100, and 150mm width 25m rolls compatible with all boards.
- Dafa UV acrylic selfadhesive tape 60 and 100mm width 25m rolls compatible with all boards.
- RCM Joint seal liquid 100mm width roller applied for longer exposure.

EPDM + Adhesive (Sealing between the sheathing board and other material's interface)

- Applicable for windows, doors, and openings in general surrounding all sides of the opening interface with boards.
- Use on deflection head joints, between boards.
- Use on slabs and columns interface with boards.
- Use on movement and expansion joints.

RCM Products:

- RCM 220 EPDM Membrane 100 to 300mm widths in 50mm increments 25m rolls.
- Dafa EPDM rubber sheathing.
- RCM 015 compatible adhesive for both above.
- Dafa Expanding sealant tape Optional for bigger joints and as backer rod.

APPLICATIONS

RCM Densglass

Sheathing board to:

- Rainscreen Cladding
- Masonry Facades
- Fibre cement sidings
- RCM Supertech Weatherboard
- Timber Cladding
- External wall insulation systems

INSTALLATION GUIDELINES

Preparation: The installation team will check all materials to ensure they have been delivered in accordance with the specification information. Boards will be stored to keep them dry; mastic will be stored in site containers as recommended in the TDS documentation.

Environmental conditions: Ensure that the materials are installed in accordance with the product recommendation for temperatures (+5°C to +40°C), moisture and humidity.

Introduction: RCM Densglass can be cut with using standard drywall tools suitable dust control measures are taken, follow the Safety, Health, Environment and Quality documentation. Damaged boards must not be used. Framing grade timber studs or galvanized steel framework should be provided at a maximum 600mm centres for single layer partitions.

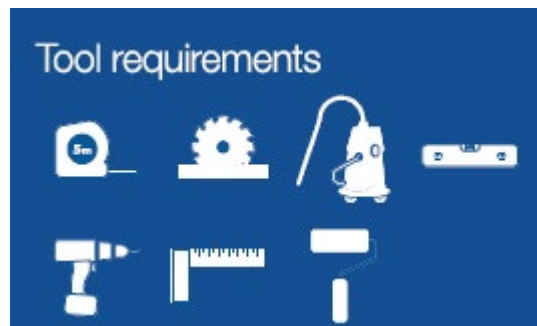
Board direction: RCM Densglass board should be installed, glass fibre reinforced (front face) outwards (external wall side).

Fixings:

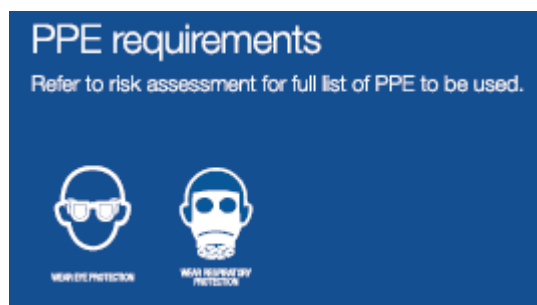
- Steel frame; Ø4.2x32mm FIX018 self-drilling.
- Timber frame; Ø4.2x42mm FIX005 self-drilling.

Screws should be a minimum of 13mm from board edges and spaced at a maximum 300mm, the screws must not be overtightened, Typical board's fixing details drawing available.

Tools: Ensure you have the correct tools available as identified below. Tools will be checked to ensure they are in good working order and that any blades or cutting edges are sharp.



PPE: Review your task in accordance with the site Safety, Health, Environment and Quality documentation folder, task control sheets (if in use) and risk and COSSH assessments before proceeding.



Weather: Review the weather for the day the works are proposed and subsequent days as relevant to the product, jointing cure times.

HAV: (Hand arm vibration) You must have HAV assessments in place and follow the guidance. Hours to be recorded weekly.

Sequence: Review the application with the design documents and the site management to ensure the sequencing is in accordance with the project plan.

Joints: Densglass sheathing panels butted with joints treated, if required by fire strategy of the project use RCM mastic sealants within the joints and around the perimeters of the boards. Try to avoid getting the fire seal mastic over the face of the boards.

INSTALL

Install sequence 1: Boards to be installed in a brick bond pattern in accordance with RCM recommendation. Line and level the first board and fix in accordance with the fixing drawing. Follow the same process with the next board leaving consistent joints as noted above (Joints).

Install sequence 2: Deflection joints will be maintained at floor levels, boards will be installed as per the engineering design drawings/details. All abutments, openings or penetrations will be neatly cut around and trimmed. EPDM Tape applied to deflection joints.

Install sequence 3: All board cutting is to be completed on a bench or trestles and cutting machines will have full dust suppression in operation at all times. Measure and mark the boards before cutting ensuring a straight edge is formed. If possible, L around the windows and openings. Ensure new board line works with window head and cill arrangements.

Install sequence 4: Boards to be secured with the required fixings as noted before (Fixings) in accordance with the fixing patterns provided in Benx Typical board's fixing details drawings.

Install sequence 5: Once the system is installed and the fixing arrangement has been inspected, all joints will be sealed following the STANDARD JOINTING paragraph from this document, Ensure tape is applied to all joints and around openings. Finish must be smooth and avoid creases where possible, joint seal liquid can then be applied.

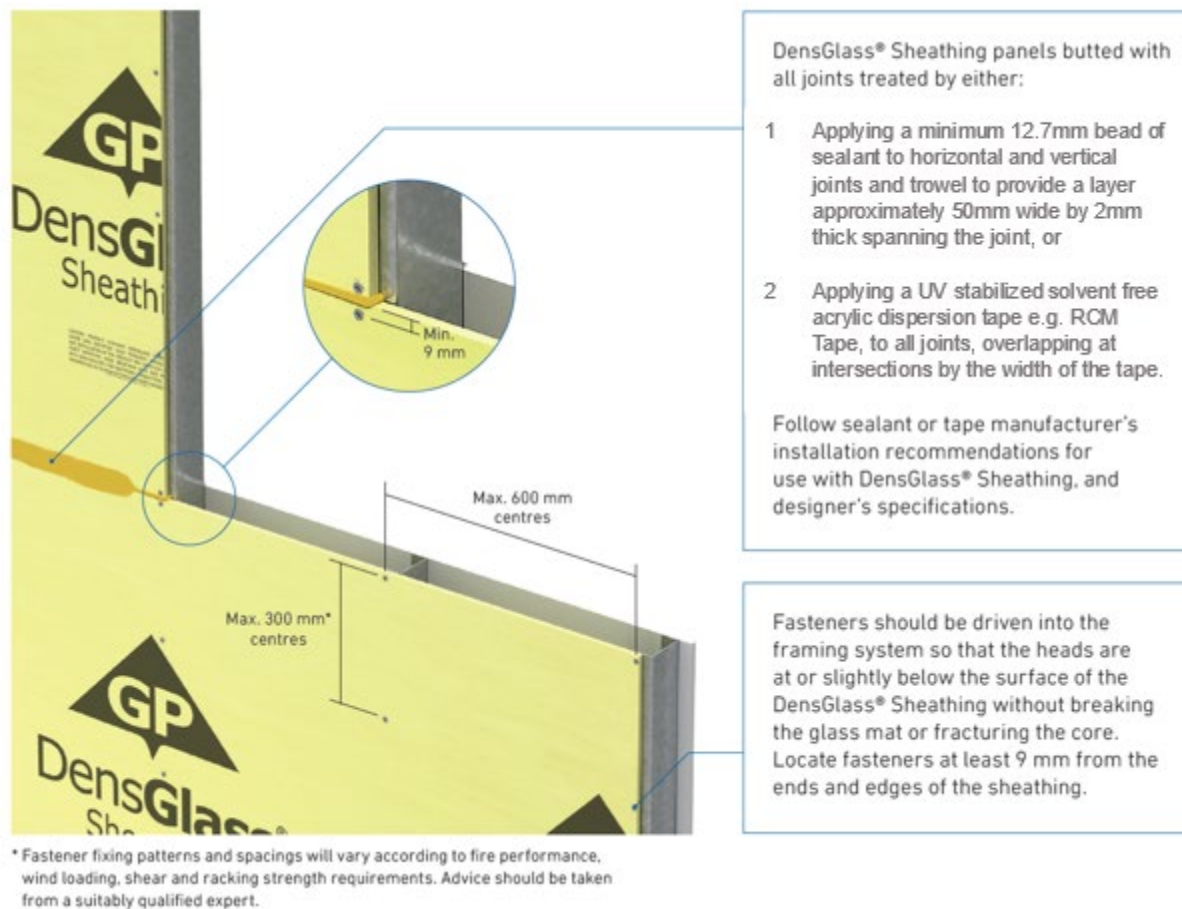
Install sequence 6: Repeat the process around the elevation. Each area is to be inspected and recorded.

Inspection: Complete visual inspections to ensure the product is installed correctly.

STANDARD JOINTING

- **JOINTS:** RCM boards Joint seal is made up of two products; RCM tapes, which is a single-sided tape made from polyethylene and RCM Joint seal liquid, which is a temporary protective coating designed to protect non-porous surfaces from damage caused by abrasion, staining, spillage, weathering, and scratching. (Fixing heads same sealing system). Add RCM sealants as first step if the wall is fire rated.
- **OPENINGS:** RCM Densglass openings joint seal is made up of two products; Expanding sealant tape and EPDM tape, installation instructions in the product related TDS.
- **MOVEMENT JOINTS & DEFLECTION HEADS:** RCM Densglass Movement joints and deflection head joint seal is made up of two products; Mastic sealant and EPDM Tape, installation instructions in the product related TDS.
- **CONCRETE SLABS & COLUMNS:** RCM Densglass joints interfacing with concrete slabs and columns is made up of EPDM Tape, installation instructions in the product related TDS.

Note: The information above is provided as an overview of the product sealing, can be subject to variations in relationship to the project specification, and the time of exposure of the boards.



Standard details of the typical joints, and a list of the available different product options available.

STORING & HANDLING

All materials shall be delivered in original bundles bearing the brand name, if any, applicable standard designation and name of the manufacturer or supplier for whom the product is manufactured. Any plastic packaging used to wrap gypsum panel products for shipment is intended to provide temporary protection from moisture exposure during transit only and is not intended to provide protection during storage after delivery. Such plastic packaging shall be removed immediately upon receipt of the shipment.

WARNING: Failure to remove protective plastic shipping covers can result in condensation which can lead to damage, including mould.

- All materials should be kept dry.
- Gypsum panel products shall be neatly stacked flat with care taken to prevent sagging or damage to edges, ends and surfaces.
- Gypsum panel products and accessories shall be properly supported on risers on a level platform, and fully protected from weather, direct sunlight exposure, and condensation.
- Gypsum panel products shall be stacked flat rather than on edge or end.

WARNING: Gypsum panel products stacked on edge or end can be unstable and present a serious hazard in the workplace should they accidentally topple.

Refer to Handling Gypsum Panel Products, GA-801, for proper storage and handling requirements. Reference: Application and Finishing of Gypsum Panel Products, GA-216, Gypsum Association.

HANDLING AND USE

CAUTION: This product contains fibreglass facings which may cause skin irritation. Dust and fibres produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, trousers and eye protection. Use only in well-ventilated areas. Wear eye/ face protection. Face masks to EN 149 FFP2. Wear eye / face protection. Eye protection to BS EN 166.

GENERAL INFORMATION

- **Service** If you have any questions, our dedicated employees are ready to assist you with advice and guidance. Please visit our website to ensure that this document is the newest version.
- **Warranty** conditions can be commissioned at your local Benx, RCM representative.
- **Disclaimer** The information contained in this publication and otherwise supplied to users of Benx, RCM products, is based on our general experience, best knowledge, and belief. However, project specific factors that fall beyond our knowledge and control, can affect the use of the products.

Benx, RCM policy is one of continuous improvement. Benx, RCM therefore reserves the right to alter specifications at any time and without notice. Board's characteristics may vary according to light and weather conditions.

Please ensure that you have the latest version of this publication by checking that the publication date corresponds with the downloadable version from our website. In case of any doubt, please contact your local Benx, RCM representative.

