

# Spacetherm®-WRB

HIGH PERFORMANCE INSULATION LAMINATE



Fig. 2 - Direct Fix

## 7 DETAILS



Fig. 3 - Example External Corner Junction



Fig. 4 - Example Internal Corner Junction

## 8 INTERNAL AND EXTERNAL ANGLES

Spacetherm WRB boards in the reveal areas should be installed in such a way that the insulation layer overlaps with the insulation boards on the adjoining base wall, to prevent a cold bridge at the junction.

To achieve this, in an external angle, the main wall insulation board should extend beyond the edge of the reveal by a distance equal to the insulation thickness of the WRB panel. The edge of the WRB insulation layer can then be trimmed at a distance equivalent to the main wall insulation thickness from the edge, allowing the two boards to intersect (see figure 3).

For internal angles, the facing should be trimmed back a distance equivalent to the insulation thickness, allowing the insulation layers to overlap (see figure 3).

After the boards are fixed in place, the joint should be taped and any gaps filled using a suitable filling compound. If additional strength is required at these edges, the use of a metal angle jointing strip should be considered.

## 9 JOINTING PANELS - PLASTERBOARD FACING

Joints between adjacent Spacetherm-WRB board are made in the conventional manner, i.e. taped and filled with a gypsum based jointing compound.

Before taping and filling, please ensure the board surfaces are free from dust (it may be necessary to use a vacuum cleaner) as excess dust on the surface may prevent adequate adhesion. Joints are then sanded as normal.

## 10 PAINTING AND DECORATING

The panels should be wiped down with a dry cloth to remove any dust that may have built up on the surface during the installation process. Prior to any decorative finishes being applied, it may be necessary to apply a coat of primer. This should be applied evenly over the entire upgraded wall area and allowed to dry.



CUST .....

QTY .....

LOT NO .....



**BEWARE**  
Packs/Boards may exceed 15Kg

Products **MUST NOT** be stacked  
Products must be kept dry **AT ALL TIMES**

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## 1 OVERVIEW

Spacetherm WRB (window reveal board) is a high performance laminate specifically designed for use on existing walls at the window and door reveals. Spacetherm WRB consists of Spacetherm Aerogel insulation blanket, bonded to a facing of plasterboard (standard or foil-backed), plasterboard with plywood reinforcement, or magnesium oxide board.

Spacetherm WRB is designed to be mechanically fixed or adhesively bonded to the existing reveal, where low U-values are required reducing encroachment on existing glazing.

## 2 KEY FEATURES

- Ultra thin insulation system for window reveals.
- Class leading thermal performance.
- Significantly reduces cold bridging.
- Minimum loss of space around openings.
- Hydrophobic, vapour permeable insulation layer
- Constant long term thermal performance 50 years+.
- Available with or without integrated vapour control layer on request
- Non-hazardous material.
- Can be used alongside traditional dry-lining insulation boards.

## 3 STORAGE AND HANDLING

The products should be kept in their packaging until they are ready to be used. Unpack the material outside or in the work area to minimise the area where dust exposure may occur.

When handling this product, please use the correct manual handling techniques. Care should be taken not to damage the edges of the board while they are being moved; ideally the boards should be moved as little as possible to prevent dust accumulation and damage. Gloves (such as latex) should be worn when handling the panels as well as disposable coveralls and appropriate dust masks if necessary

## 4 BEFORE YOU START

- Ensure safe access and egress to the work area
- Restrict access – control the number of people entering the work area
- Close all unnecessary doors and seal if possible
- Plan how you are going to carry out the work before you begin
- Ensure the substrate is structurally sound, and repair if necessary
- Remove any wallpaper, paint chips and projecting nails/screws from the substrate
- Ensure surface of reveal is clean and free of dust

## 5 CUTTING BOARDS

Where possible it is recommended that the panels are cut outside. If it is not possible to cut the panels outside then care should be taken to provide adequate ventilation to the internal cutting area.

Mechanical cutting is best done with a Jigsaw or circular saw, whichever is most appropriate for the type of cut. Before cutting, ensure the board is adequately supported, and cuts should always be made from the internal face of the board (e.g. Plasterboard side)

Any indoor cutting should be carried out over a plastic sheet to contain dust, and the use of mechanical cutters with local dust extraction systems is recommended. Goggles and a dust mask should always be worn during the cutting process.

## 6 FIXING BOARDS

Spacetherm WRB is designed for mechanical fixing to a variety of substrates.

When fixing to timber studwork or battens (see Fig. 1), plasterboard or magnesium board faced Spacetherm-WRB panels are recommended. If fitting timber battens, they must be securely fixed to the base wall using fixings appropriate to the substrate and anticipated loadings. The timber battens should be a minimum of 25mm deep and protected with a DPC if required. Battens should be spaced at 400mm centres maximum and properly located to support all board joints and edges.

Spacetherm WRB boards should be secured to the timber battens or studwork using drywall screws equivalent to the thickness of the Spacetherm WRB + 25mm, at no greater than 300mm centres, and at all edges and joints.

For direct fixing to masonry substrates (see Fig. 2), a magnesium oxide board facing is recommended and should be adhered to the substrate using Instastik adhesive. Alternatively, WRB with a plasterboard/plywood facing can be used and is installed using shot-fired masonry fixings. Prior to installation, installers should ensure the substrate is suitable for the use of such fixings, and the surface is sufficiently level and smooth as the direct fixing method does not allow for levelling. If the wall is not sufficiently level, or large voids will be present behind the insulation panels, it is recommended a parge coat be applied prior to installation of Spacetherm-WRB panels. If this coat is applied, it must be ensured that fixings penetrate to the solid masonry behind to safeguard adequate fixing strength.

Nail fixing should be made at not more than 500mm centres horizontally and vertically, with all edges and joints adequately secured.

Nailgun power setting will vary according to equipment and substrate and the advice of tool manufacturers should be sought prior to installation. Typically nail length should be the board thickness +25mm.



Fig. 1 - Timber Fix

### Call our Technical Department

The A. Proctor Group has a dedicated Technical Department which can assist with installation details, view drawings for approval and give specialist advice on the correct use of the A. Proctor Group products.

For Technical Advice on installation details and product applications contact the A. Proctor Tecline:

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