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Introduction

The 30mm ROCKWOOL® Flat Roof Overlay Board has been purposely designed to simplify repair and refurbishment of flat roof systems.

The ROCKWOOL® Overlay Board can be used to isolate and prepare the surface of existing roof systems, providing the perfect platform for the installation of new waterproofing membranes.

Product Benefits

- Single solution for all common waterproofing systems:
  - GRP
  - Torch Applied/Self-adhered Bitumen
  - Liquid Waterproofing Systems
  - EPDM
  - Single Ply

- Direct application onto the existing roof
- Mechanically fastened or bonded
- Absorbs uneven surfaces
- Added thermal and acoustic benefits
- Euroclass A1 non-combustible.
Flat Roof Overlay Board Installation

**Step 1** Before Installation

Ensure the working weather conditions are suitable before commencing installation. ROCKWOOL® Flat Roof Overlay Board must be laid in dry conditions.

The existing roof structure should be thoroughly inspected to ensure it is in a suitable condition to accept the new waterproofing system.

IMPORTANT: ROCKWOOL® Flat Roof Overlay Board is non-structural and should not be used to replace structural components.

**Step 2** Preparing the Existing Deck

Remove any loose debris from the roof surface. The ROCKWOOL® Overlay Board will cover uneven surfaces, however large protrusions may need to be removed.
Step 3  Fixing the Flat Roof Overlay Board

The Overlay Board can be mechanically fixed or bonded through/to the existing roof. When mechanically fixing the overlay board 4 N° fixings per m² are required:

- SFS Isofast (IG) fastener and stress plate
- Ejot HTV 70 RU stress plate and fastener

The insulation can be bonded to the existing roof surface using a compatible roofing adhesive:

- Dow INSTA-STIK Roofing STD
- Soudal Soudatherm Roof 330

The insulation adhesive should be applied in accordance with the manufacturers instructions.

Install the Overlay Board onto the existing roof with staggered and tightly butted joints. The mineral fleece should face upwards.

Roof boards installed during the day must be covered and not left exposed to moisture. Adequate temporary protection must be provided above the roof boards during installation.
GRP Waterproofing Systems

GRP System Components

- ROCKWOOL® Flat Roof Overlay Board
- GRP Waterproofing System
- Insulation Adhesive
- Timber Hard Edge
- GRP Edge Trim
Application of GRP Waterproofing Systems

Refer to pages 4 and 5 (Steps 1-3) for guidance on installing the ROCKWOOL® Flat Roof Overlay Board.

When installing the GRP waterproofing system with the ROCKWOOL® Flat Roof Overlay Board always ensure the boards are flat and level with joints tightly butted.

To ensure a level surface between boards a temporary weight can be applied at the board joint to hold the insulation in place whilst the adhesive cures. Any gaps should be taped with a 75mm bandage and GRP resin prior to the application of the main laminate.

Attaching the GRP Trims

Depending on the GRP manufacturers recommendations there are two methods which can be used to attach the roofing trims when using the Flat Roof Overlay Board.

**Method A** Acceptable for use with TuffStuff®
Install a 30mm timber hard edge to the perimeter of the roof. This can be mechanically fixed or bonded using the insulation adhesive. Once installed the edge trims can be screwed or nailed to the timber hard edge.

**Method B** Acceptable for use with Scott Bader Crystic® ROOF
Install the GRP trim to the Flat Roof Overlay Board using a suitable structural adhesive e.g. Soudal FixAll adhesive.

Apply an 8mm adhesive bead along the edge of the insulation to hold the trims in place.
When installing GRP resin onto the ROCKWOOL® Flat Roof Overlay Board it is recommended that the base coat is applied at a coverage rate of 1.6 ltrs/m². The 450gsm glass fibre matt is suitable for use with the Overlay Board.

Once the resin has cured always check the surface of the resin for any pin holes prior to applying the top coat.

Apply the top coat in accordance with the manufacturers instructions.

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**Applying the GRP Resin**

The GRP resin should be installed in accordance with the manufacturers instructions.

Before applying the main laminate a 75mm bandage must be applied to the join between the GRP trims and the Overlay Board.

*All vertical and horizontal board joints must be sealed with the 75mm bandage before applying the main GRP laminate.*

When installing GRP resin onto the ROCKWOOL® Flat Roof Overlay Board it is recommended that the base coat is applied at a coverage rate of 1.6 ltrs/m². The 450gsm glass fibre matt is suitable for use with the Overlay Board.

Once the resin has cured always check the surface of the resin for any pin holes prior to applying the top coat.

Apply the top coat in accordance with the manufacturers instructions.
Bitumen Waterproofing System

Bitumen System Components

ROCKWOOL® Flat Roof Overlay Board

Bitumen Cap Sheet

Torch applied or self-adhered bitumen underlay

HARDROCK® Multi-Fix Angle Fillets
Application of Bitumen Waterproofing Systems

Refer to pages 4 and 5 (Steps 1-3) for guidance on installing the ROCKWOOL® Flat Roof Overlay Board.

Installation of HARDROCK® Multi-Fix Angle Fillets

Before installing the bitumen underlay the HARDROCK® Multi-Fix Angle Fillets should be bonded to the insulation at horizontal and vertical interfaces to ensure good transition of the bitumen membrane.
When installing two layer bitumen felt systems, the underlay can be torched directly to the insulation. Alternatively a self adhered underlay can be installed. Apply the cap sheet in accordance with the manufacturers instructions.

When applying bitumen felt with a roof torch use minimum heat at all times. Torch the roll of bitumen felt using appropriate flame/edge guards at all times.
Health and Safety

In accordance with REACH health and environment regulations, there are no hazardous classifications associated with ROCKWOOL stone wool in respect to physical, health and environmental considerations.

The mechanical effect of fibres in contact with skin may cause temporary itching.

Cover exposed skin. When working in unventilated area wear disposable face mask.

Rinse in cold water before washing.

Clean area using vacuum equipment.

Ventilate working area if possible.

Waste should be disposed of according to local regulations.

Wear goggles when working overhead.

Sound & Thermal Product Range

Look in-store for more great products within the ROCKWOOL Sound & Thermal Range.

- ROCKWOOL® Thermal Roll
- ROCKWOOL® Thermal Slab
- ROCKWOOL® Cavity Batt
- ROCKWOOL® Sound Slab
### Technical Specification

<table>
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<tr>
<th>Properties</th>
<th>Details</th>
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<tbody>
<tr>
<td>Length</td>
<td>1200mm</td>
</tr>
<tr>
<td>Width</td>
<td>1000mm</td>
</tr>
<tr>
<td>Thickness</td>
<td>30mm</td>
</tr>
<tr>
<td>Coverage/Pack</td>
<td>3.6m² (3 boards)</td>
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<tr>
<td>Facing</td>
<td>Glass Mineral Fibre Fleece</td>
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<tr>
<td>Thermal Conductivity</td>
<td>0.039 W/mK</td>
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<tr>
<td>Acoustic Performance</td>
<td>Rw 33dB</td>
</tr>
<tr>
<td>Fire Classification</td>
<td>A1 (BS EN 13501-1)</td>
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<tr>
<td>Certification</td>
<td>FM Approved</td>
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