

50 x 1m

- Clean to use
- Proven performance
- Highly flexible
- Printed cutting grid
- Dual integrated tape

TIL-R

**Breathable
Pitched Roof Underlay
Dual Integrated Tape**

BS5534

ANNEX A

WIND UPLIFT
RESISTANCE

✓ SUITABLE FOR
THE FOLLOWING
WIND ZONES



120gsm

Code: 270090035/10535547



See fitting instructions on reverse

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PLUS

Breathable Pitched Roof Underlay



Fixing instructions for TIL-R Breathable Pitched Roof Underlay

General Information:

TIL-R Breathable Pitched Roof Underlay is suitable for use as a fully supported or unsupported underlay in tiled or slated pitched roofs. It has been fully assessed by the British Board of Agreement and has been awarded BBA Certificate No 17/5406.

This product has been tested by the BRE and is suitable for use in Wind Zones 1-5.

It must be installed in accordance with the technical data sheet and the relevant clauses of BS 5534:2014 Code of practice for slating and tiling of roofs and BS 8000-6:2013 Workmanship on building sites – Code of practice for slating and tiling of roofs and claddings.

Breathable Pitched Roof Underlay remains flexible and easy to handle even at low temperatures allowing installation to be carried out in all conditions normal for roofing work.

Installation Guidelines:

TIL-R Pitched Roof Underlay must always be fixed with the PRINTED side facing outwards.

The Underlay is unrolled across the roof in a horizontal direction parallel with and starting at the eaves and working up to the ridge.

All TIL-R PLUS underlays should be installed using the integral tape to bond horizontal overlaps. Once the underlay has been laid and fixed into position at the correct lap, simply remove the top and bottom protective tapes and ensure laps are fully bonded. A separate tape or glue is required for the vertical sidelaps and connections to the building structure.

Where the Underlay is dressed into the external gutter, it is recommended that a proprietary eaves protection product, such as TIL-R Eaves Protection System, is used to provide greater protection from the effects of UV exposure (see Detail 1).

When installed in a traditional uninsulated and unsupported (open rafter) system, the underlay is fixed by draping over the rafters and securing in place with the tiling battens. (see Detail 2). A drape of between 10 to 15mm is required to guide any penetrating rainwater away from the rafters to the drainage point. The membrane must not be pulled tight against the underside of the tiling batten.

When installed as a fully supported system, the Underlay is laid over the support and secured using counter battens of at least 12mm thickness fixed through to the support or rafters with appropriate corrosion resistant staples or galvanised clout nails. The battens for tiling are fixed to the counter battens leaving an air space between the Underlay and the tiles for drainage and ventilation. (see Detail 3)

Overlaps should be installed to shed water out and down the slope and, depending on support and roof pitch, should be of the minimum dimensions given in the following table. Vertical overlaps should be 100mm and formed over a rafter position.

Roof Pitch	Horizontal Lap Unsupported	Horizontal Lap Supported	Vertical Lap
12.5 to 14°	225mm	150mm	100mm
15 to 35°	150mm	100mm	100mm
35°+	100mm	75mm	100mm

Note: TIL-R Breathable Pitched Roof Underlay is marked with a 150mm lap line which is correct for use on a 15 to 35° unsupported roof system.

Ensure that when detailing around service penetrations, roof lights or chimneys, the Underlay is dressed a minimum of 100mm to the upstand and is effectively sealed and weathered by an appropriate flashing.

Verges: At verges, the Underlay should be lapped over the outer walling (typically brickwork) by at least 50mm. Where the verge has a constructed overhang the underlay should be fixed to the outer rafter.

Ridges: In duo-pitched roofs, the underlay from one elevation should overlap the other by at least 150mm. In mono-pitched roofs, the underlay should be extended over the mono ridge by at least 100mm and it is recommended that the underlay is extended to provide protection to the ends of roof timbers.

Hips and valleys: These should be covered with a separate 600 mm wide strip of Underlay
Abutments: The Underlay should be returned up the abutment by at least 75mm and covered by a proprietary flashing.

TIL-R Breathable Pitched Roof Underlay is designed as a secondary barrier to wind driven rain and snow and should not be considered as a primary waterproofing layer. Good roofing practice is to install the primary waterproof covering (eg. tiles, slates) as soon as practically possible. Whilst providing some protection, TIL-R Breathable Pitched Roof Underlay should not be considered as a totally weatherproof protection for occupied buildings or when internal fitting out is taking place.

