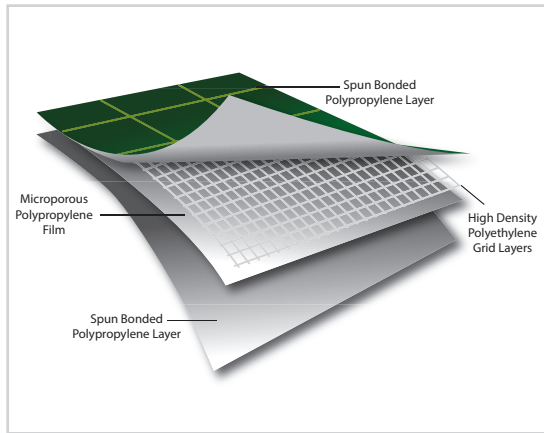


## Fortis Reinforced 4 Layer



# easy-trim<sup>®</sup> Breather Membranes

### Description

The Easy-Trim Fortis 160gsm breather membrane is our fully reinforced 4 layer breather membrane, with superior strength and unique vapour permeability, designed for use in both fully supported and unsupported installation in tiled or slate pitch roofs. The Fortis breather membrane, features a distinctively high water resistant performance, and brilliant tensile tear strength. Suitable for applications on warm, cold and hybrid roofs, together with Scottish sarking boards, and applicable for installations in timber and metal framed constructions.

### Benefits

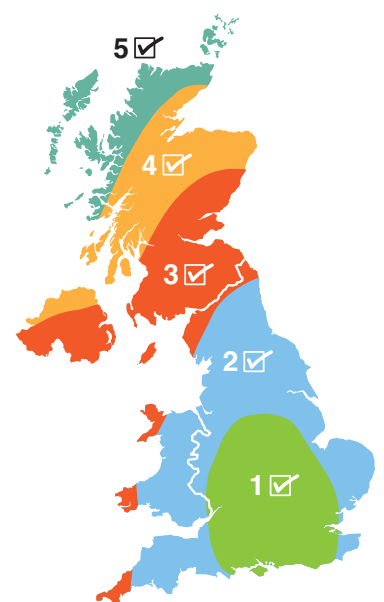
- BBA certified for warm and cold roof applications BBA 10/4753
- Conforms to BS5534.2014 Annex A
- With reinforcement
- Superior bond strength
- UV stable for 3 months
- Type LR Underlay to BS5250
- Vapour permeable

### Wind Zone Suitability

The wind uplift resistance figures for Easy-Trim breather membrane applies in the geographical wind zones stated in the table below, where a well-sealed ceiling is present and the roof has a ridge height of  $\leq 15\text{m}$ , a pitch between 15 degrees and 75 degrees, and a site altitude of  $\leq 100\text{m}$ , and where the topography is not significant. The required uplift resistance for other roofing projects should be determined using BS5534: 2014 +A1: 2015 and the declared wind up lift resistance which can be made available through our technical department.

Wind Zone suitability of Easy-Trim according to BS5534: 2014 +A1: 2015, with battened laps and taped lap

| Product | $\leq 345\text{mm}$ batten gauge with batten lap | $\leq 250\text{mm}$ batten gauge with batten lap | $\leq 345\text{mm}$ batten gauge with taped lap |
|---------|--|--|---|
| Fortis  | Zone 1 to 2                                      | Zones 1 to 5                                     | Zones 1 to 5                                    |



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### Product Data

| Properties                  | Method    | Units               | Nominal Values          | Tolerance               |         |  |
|-----------------------------|-----------|---------------------|-------------------------|-------------------------|---------|--|
|                             |           |                     |                         | Minimum                 | Maximum |  |
| <b>Informative section:</b> |           |                     |                         |                         |         |  |
| Length                      | EN 1848-2 | [m]                 | >50                     | -                       | -       |  |
| Width                       | EN 1848-2 | [m]                 | 1,5                     | -0,0075                 | +0,0225 |  |
| Straightness                | EN 1848-2 | -                   | conforming              | -                       | -       |  |
| Mass per unit area          | EN 1849-2 | [g/m <sup>2</sup> ] | 160                     | -10                     | +15     |  |
| Visible defects             | EN 1850-2 | -                   | Without visible defects | Without visible defects |         |  |

### Normative part:

|   |                          |  |           |            |            |
|---|--------------------------|--|-----------|------------|------------|
| Reaction to fire  | EN 13501<br>EN 11925-2   | [class]                                  | E         | -          | -          |
| Resistance to water penetration                         | EN 1928<br>EN 13111      | [class]                                  | W1        | -          | -          |
| Resistance to water penetration after artificial ageing | EN 13859-1<br>Annex C    | [class]                                  | W1        | -          | -          |
| Water vapour transmission properties (Sd)               | EN 12572<br>EN 1931      | [m]                                      | 0,02      | -0,01      | +0,015     |
| Tensile properties: Maximum tensile force MD / CMD      | EN 12311-1<br>EN 13859-1 | [N/50mm]                                 | 420 / 420 | -70 / -120 | +50 / +120 |
| Max tensile force after artificial ageing MD / CMD      | EN 13859-1<br>Annex C    | [N/50mm]                                 | 385 / 390 | -70 / -120 | +70 / +120 |
| Tensile properties: Elongation MD / CMD                 | EN 12311-1<br>EN 13859-1 | [%]                                      | 40 / 50   | -15 / -25  | +30 / +30  |
| Elongation after artificial ageing MD / CMD             | EN 13859-1<br>Annex C    | [%]                                      | 35 / 45   | -15 / -25  | +30 / +30  |
| Resistance to tearing MD / CMD                          | EN 12310-1<br>EN 13859-1 | [N]                                      | 390 / 360 | -80 / -60  | +120 / +70 |
| Dimensional stability                                   | EN 1107-2                | [%]                                      | <2        | -          | -          |
| Flexibility at low temperature                          | EN 1109<br>EN 495-5      | [°C]                                     | -20       | -          | -          |
| Resistance to penetration of air                        | EN 12114<br>EN 13859-1   | [m <sup>3</sup> /m <sup>2</sup> .h.50Pa) | npd       | -          | -          |
| Temperature resistance                                  | -                        | [°C]                                     | -40 / +80 | -          | -          |
| Hydrostatic pressure test                               | EN 20811                 | [cm]                                     | >500      | -          | -          |

### Installation Guide

All Easy-Trim breather membranes are suitable for installations on all major pitch roofing and timber frame applications, and must be installed in accordance with our fixing instructions, complying with the recommendations of BS5534: 2014 + A1: 2015; BS5250: 2011 and BS8000-0: 2014 and any other applicable standard.

The products are designed to be installed by competent and experienced installers of slates and tiles.

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## Fortis Reinforced 4 Layer

### Installation Guide - Continued

Install Easy-Trim breather membranes by rolling out the membrane horizontally across the rafters going from left to right, with a 100mm lap over the pre-installed Easy-Trim felt support trays at the eaves (preferably taped with the double sided overlap tape). Ensure the membrane is installed with the printed side facing out.

Continue with the next row above that, maintaining the prescribed horizontal and vertical laps in the table below, over the lower membrane.

| Roof Pitch (°) | Horizontal Laps (mm) |                 | Vertical Laps (mm) |
|----------------|----------------------|-----------------|--------------------|
|                | Not fully Supported  | Fully Supported |                    |
| 12.5 - 14      | 225                  | 150             | 100                |
| 15 - 34        | 150                  | 100             | 100                |
| 35 - 75        | 100                  | 75              | 100                |

Horizontal laps in the underlay should be taped with the double sided overlap tape, or battened over and where possible the lap of the underlay should coincide with closest tiling or slating batten. Vertical laps should have a 100mm lap min and positioned above a rafter.

**Ventilated Ridge:** For ventilation at the ridge, the membrane should be stopped about 5 – 30mm from the apex of the roof, to achieve the recommended 5000mm/msq ventilation with the Easy Ridge F universal ridge kit installed.

**Non Ventilated Ridge:** In this application ensure a 150mm overlap of the membrane across the apex of the roof on both sides, before installing the Easy Ridge F universal ridge kit. Please refer to our BBA certificate for further reference.

**Supported:** All Easy-Trim breather membranes are suitable for use in fully supported applications. Please refer to our BBA certificate for further reference.

When fully supported on sarking sheathing, the products have adequate support to withstand wind uplift in all wind zones. Such applications include, installations over e.g. plywood, OSB boards and insulation for warm roof designs.

**Unsupported:** All Easy-Trim breather membranes are suitable for use within the geographical wind zones stated in table three of our BBA Cert. 10/4753.

### Accessories

Overlap tape, membrane repair tape, felt support trays.

### Packaging Information

| Product       | Code             | Size       | Pallet Quantity |
|---------------|------------------|------------|-----------------|
| Fortis 160gsm | EASYTRIMFORT/1.5 | 1.5m x 50m | 30              |

### Disclaimer

The information relates only to this specified material and may not be valid for such materials used in combinations with other materials and processes. This information is, to the best of the Company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of the information on the material for their own particular use.

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