

FR Fire Breather Membrane

Product Description

Novia® FR Fire Breather is a B-s1,d0* fire class breather membrane, dual approved for both roof and wall applications. This membrane is suitable for use in pitched cold and warm roofs, and insulated wall applications including those above 18 metres in height. Novia® FR Fire Breather meets EN 13859-1 for pitched roofing and EN 13859-2 for walls. The product has the maximum W1 water resistance, good breathability, and is lightweight and easy to handle. Novia® FR Fire Breather is coloured black to the front and white on the reverse side, but with no text or images on either side, except an overlap line.

Features

- *B-s1,d0 fire rated when fitted to A1 / A2 materials, D-s2,d0 when on wood
- Excellent UV stability. TPU performs significantly better than other materials. Install as per BS 5534 UV guidance
- CE compliant to EN 13859-1 (roofs) and EN 13859-2 (walls).
- Waterproofing membrane suitable for walls over 18 metres
- Single product for all roofs and walls
- Monolithic breathable / vapour permeable membrane design
- High performance TPU / non-woven laminate construction
- Suitable for use on fully boarded roofs

Typical Applications

- Roof breather membrane
- Wall breather membrane

| | Value |
|--|--|
| Standard Width | 1500mm |
| Roll Length | 50m |
| Roll Weight | 8.5kg |
| Nominal Weight | 110gm ² EN 1849-2 |
| Tensile strength MD/CD | 270/175N/50mm EN 12311-1 |
| Elongation MD/CD | 25/25% EN 12311-1 |
| Tear resistance MD/CD | 90/100N EN 12310-1 |
| Resistance to air penetration | 0.05m m ³ /(m ² .h.50 Pa) EN 12114 |
| Sd value | 0.075m EN ISO 12572 C |
| Resistance to water penetration | W1 Class EN 1928 A |
| Reaction to fire | *B-s1,d0 Class EN 13501-1 |
| Low temperature stability | -40 °C EN 1109 |
| UV resistance | Excellent. Install as per BS 5534 UV guidance |
| Resistance to water penetration (after ageing) | W1 Class EN 13859-1 Annex C |

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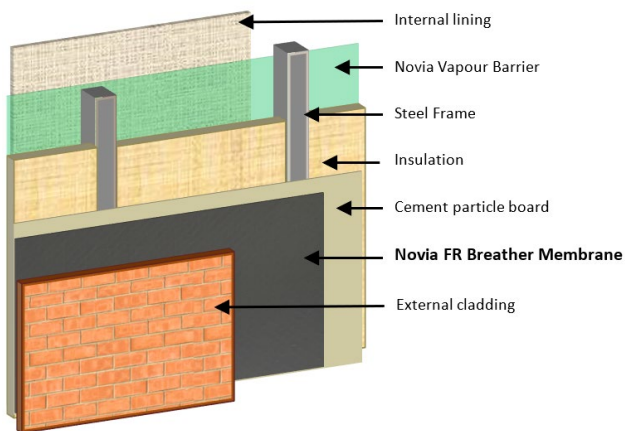
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Registered in Cardiff No. 3000843

Installation guidance for walls:

Fix the Nova[®] FR Fire Breather membrane to the wall structure; ensure upper layers overlap lower layers. Work from the bottom moving upwards and ensuring there are minimum overlaps of 100 mm on the horizontal joints. Do not begin a vertical lap joint within 300 mm of a corner, and vertical laps should be at least 150 mm. Ensure the bottom timber is also protected by an overlap. Fix at suitable intervals with galvanised nails, stainless staples or similar fixings that will be permanent. Do not leave the membrane unnecessarily exposed to weathering, high winds, excessive UV etc. as this may cause damage over time. If you must leave the membrane exposed for extended periods of time, consider the use of suitable temporary protection materials.



Installation guidance for roofs

Nova[®] FR Fire Breather can be installed within both warm and cold roofs. On insulated warm roofs the membrane may be placed directly onto the insulation. Nova[®] FR Fire Breather can also be used in conventional cold roof applications. Nova[®] FR Fire Breather is also suitable for fully boarded roof applications. Fix the membrane to the roof structure; ensure upper layers overlap lower layers. Work from the bottom moving upwards and ensure there are minimum overlaps as shown in the table below.

| Minimum Overlap | | |
|--------------------|---------------------|-------------------|
| Roof Pitch | Horizontal Lap (mm) | Vertical Lap (mm) |
| 12.5° to under 15° | 225 | 100 |
| 15° and above | 150 | 100 |

The membrane should be overlapped 200 mm on each side of the ridge. All vertical overlaps must be situated on a rafter and must be sealed. Fix at suitable intervals with galvanised nails, stainless staples or similar fixings that will be permanent. At any entry points for services (soil pipes, vents etc.), ensure that Nova[®] FR Breather is properly sealed. Where pipes etc. penetrate the underlay, cut neatly and accurately and turn edges up to give a tight water-resistant fit.

Other notes

Ensure that for all wall or warm roof applications, a Novia® vapour barrier such as Novia® VC2 or VC200 Reflective is installed on the warm side of the insulation to limit unwanted interstitial condensation. As little as 1 - 3% moisture contamination within the insulation can adversely affect the achieved thermal performance by more than 30%. Novia® FR Breather will reduce the risk of condensation within the roof space but in certain atmospheric conditions it can never be totally eliminated.

Always handle material carefully to prevent tears and punctures and repair all damage.

Ensure that sufficient ventilation is incorporated to comply with all relevant building regulations and technical standards, such as BS 5250.

Store product in suitable conditions.

Please note: The above technical information is given as a guide and is based on recent test data obtained under laboratory conditions. Materials should be fully tested by the end user to establish suitability of the product for the intended application. March 2024

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