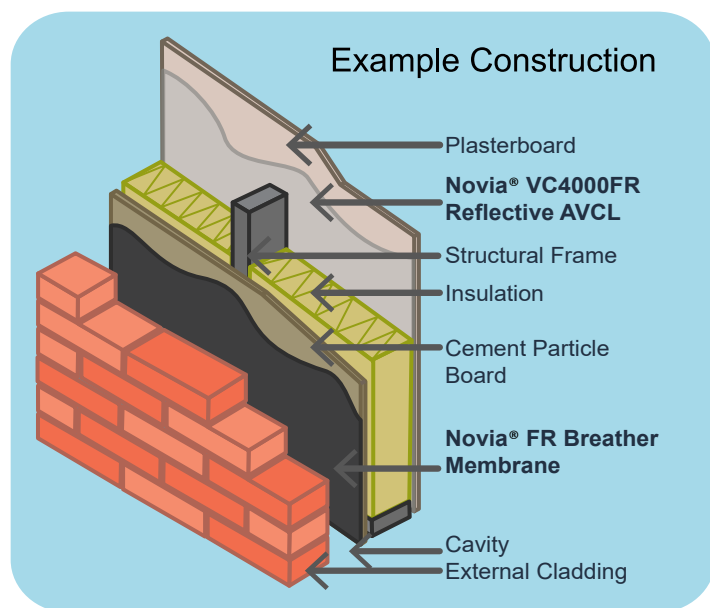




Class B-s1,d0* FR Roof and Wall Breather Membrane



Novia® FR Roof and Wall Breather Membrane is a Class B-s1,d0* fire rated, high performance, lightweight and versatile breather membrane for all pitched cold and warm roofs, as well as insulated wall applications. **Novia® FR Breather** is CE marked and meets EN 13859-1 for pitched roofing and EN 13859-2 for walls, including high rise applications. **Novia® FR Breather** has excellent Class W1 water resistance but still provides high breathability. The membrane is made from 2-layer TPU which provides significantly improved UV performance. **Novia® FR Breather** is completely black on one side, white on the reverse, with no text or images, except for a 150mm overlap line.



Key Features:

- Class B-s1,d0* fire rated to EN 13501-1, suitable for use in high rise applications
- 2-layer product, including high performance TPU material
- Class W1 water resistance to EN 1928
- Airtight, and highly vapour permeable
- Single product for all roofs and walls
- CE to EN 13859-1 (roofs) and EN 13859-2 (walls)
- Install as per BS 5534 UV Guidance

For projects that require a fire rated vapour control layer which complies to EN 13501-1, we also offer **Novia® VC4000 FR Reflective**. It has a B-s1,d0 Fire Classification and is approved for use in high rise applications. See datasheet for more product specific information.

	Value	Units	Test Method
Standard Width	1.5	m	
Roll Length	50	m	
Roll Weight	8.5	kg	
Nominal weight	110	g/m ²	EN 1849-2
Tensile strength MD / CD	250 / 160	N/50mm	EN 12311-1
Elongation MD / CD	25 / 25	%	EN 12311-1
Resistance to tearing MD / CD	90 / 100	N	EN 12310-1
Water vapour resistance, Sd	0.075	m	EN ISO 12572
Resistance to water penetration	W1	Class	EN 1928
Resistance to water penetration (after ageing)	W1	Class	EN 1928
Resistance to air penetration	0.05	m ³ /m ² .h.50.pa	EN 12114
Low temperature stability	- 40	°C	EN 1109
Reaction to fire	B-s1,d0*	Class	EN 13501-1
UV resistance	Install as per BS 5534 UV Guidance		

NOTE: COSHH safety datasheets available upon request.

*Fire class when fitted to A1 or A2 materials.



Use the QR code to link direct to the product webpage.





® Class B-s1,d0* CE
FR Roof and Wall
Breather Membrane

Installation Guidance for Walls:

To achieve Fire Classification B-s1,d0, **Novia® FR Breather** should be fixed to the wall structure against an A-rated substrate. When **Novia® FR Breather** is fixed to the wall structure, upper layers should overlap lower layers. Work from the bottom moving upwards, using minimum overlaps of 100mm on the horizontal joints. Do not begin a vertical lap joint within 300mm of a corner, and vertical laps should be at least 150mm. Ensure the bottom of the structure 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:

Novia® FR Breather can be installed within all standard roof applications. To achieve Fire Classification B-s1,d0, **Novia® FR Breather** must be fixed to the roof structure against an A-rated substrate. When **Novia® FR Breather** is fixed to the roof structure, upper layers should overlap lower layers. Work from the bottom moving upwards and ensure there are minimum overlaps used as shown within BS 5534.

Minimum Overlap

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

If Fire Classification B-s1,d0 is not required, for insulated warm roofs, the membrane may be placed directly onto the insulation, or boarded roof if required. **Novia® FR Breather** can also be used in conventional cold roof applications. The membrane should be overlapped 200mm on each side of the ridge. All vertical overlaps must be situated on a rafter and must be sealed.

Fix **Novia® FR Breather** at suitable intervals with galvanised nails, stainless staples or similar approved fixings that will be permanent. At any entry points for services (soil pipes, vents etc.), ensure that **Novia® 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, and seal with Novia® tapes.

Installation Tapes:

We strongly advise the use of Novia installation tapes¹. The use of tapes will greatly improve the performance and overall airtightness of the structure. We offer a single-sided **Novia® Breather Membrane Lap Tape** for basic installations, and for high specification work where there is even greater emphasis on air-tightness we offer the optional **Novia® Double Sided Lap Tape**. For the very best standards of installation and air-tightness, we advise the use of both types of tape, which will ensure a long lasting, high quality, breathable and air-tight seal is formed.

¹ Novia BMLT and Novia DSLT are not fire rated, but tapes & sealants are excluded under relevant sections of "Fire Safety: Approved Document B".

Other Notes:

- Ensure that a Novia Air & Vapour Control Layer, such as **Novia® VC4000FR 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 a roof space but in certain atmospheric conditions it can never be totally eliminated.
- Ensure that sufficient ventilation is incorporated to comply with all relevant building regulations.
- Always handle material carefully to prevent tears and punctures. Repair any on-site damage with Novia tapes.
- All Novia products should be stored horizontally, indoors and out of direct sunlight. External storage must be on a temporary basis. When stored externally, Novia products should be covered and protected from exposure to weather conditions, especially wind, rain, frost and UV. Pallets should not be stacked.

This datasheet represents the latest understanding of the subject. However, it is for the ultimate user to determine suitability of Novia products within specific applications. The advice and information we have provided is general in nature, and is subject to future revision.

Date Published: September 2025. Novia's most recently published datasheet supercedes any previous versions which may still be in circulation.

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