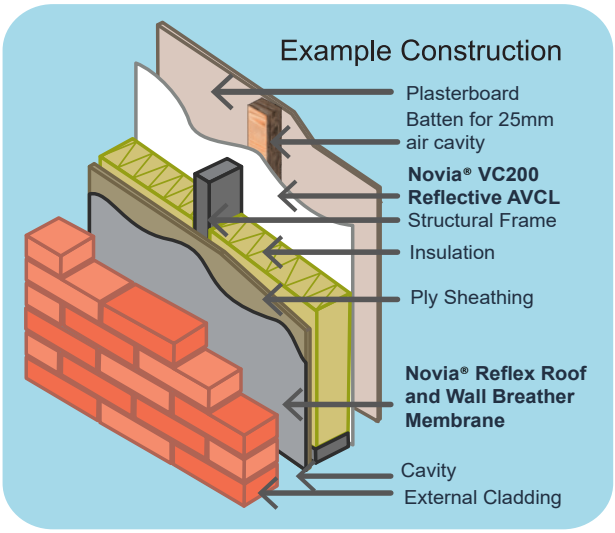
Novia® Reflex

Reflective Roof and Wall Breather

UK CA

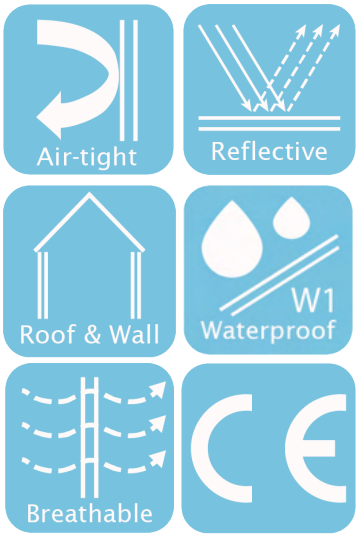
Novia® Reflex Roof and Wall Breather is a high quality, strong, versatile, low cost reflective breather membrane for all pitched cold and warm roofs, as well as insulated wall applications. The material is UKCA certified and meets EN 13859-1 for pitched roofing and EN 13859-2 for walls. **Novia® Reflex** meets EN 1928 Class W1 water resistance, but still provides high breathability. **Novia® Reflex** has a reflectivity of 81% (aged), which will improve the constructions U value. When correctly installed, it is possible to achieve an additional r value of up to 0.45 m²K/W in an unventilated wall cavity, or up to 0.17 m²K/W in an insulated sloping roof. Additionally, the reflective face allows the construction to remain cooler in summer and warmer in winter. **Novia® Reflex** has excellent tensile and nail tear strength, offering improved durability when handling on site and reducing the risk of accidental damage during installation. The product is reflective on one side, white on the reverse, with no text or images, except for a 150mm overlap line.



Key Features:

- 3-layer, roof and wall breather with microporous core
- 81% (aged) reflectivity, which can improve r values by up to 0.45 m²K/W
- Cooler in summer and warmer in winter
- Class W1 water resistance to EN 1928
- Airtight, and highly vapour permeable
- Good tensile and nail tear strength
- Fire Classification E to EN 13501-1
- UKCA to EN 13859-1 (roofs) and EN 13859-2 (walls)
- Suitable for use in BS 5534 wind uplift applications.
- Install as per BS 5534 UV Guidance

	Value	Units	Test Method
Standard width	1.5	m	
Roll length	50	m	
Roll weight	10.5	kg	
Nominal weight	131	g/m²	EN 1849-2
Tensile strength MD / CD	270 / 225	N/50mm	EN 12311-1
Elongation MD / CD	70 / 90	%	EN 12311-1
Tear Resistance MD / CD	150 / 220	N	EN 12310-1
Water vapour resistance, Sd	0.05	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	0.00	m³/m².h.50pa	EN 12114
Temperature Resistance	- 40 / + 80	°C	
Reflectivity unaged / aged	82 / 81	%	EN 15976
Reaction to fire	E*	Class	EN 13501-1
UV resistance	Install as per BS 5534 UV Guidance		



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

NOTE: COSHH safety datasheets available upon request.

*Fire class tested on chipboard according to EN 13238.

Date Published: V7, July 2024. Novia's most recently published datasheet supercedes any previous versions which may still be in circulation.

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www.novia.co.uk ☎ 01795 515 110 ✉ sales@novia.co.uk

Novia Limited Unit 3 Trilogy Eurolink V Industrial Park Sittingbourne Kent ME10 3NH

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Installation Guidance for Walls:

Fix **Novia® Reflex** 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 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 to the membrane over time, particularly the reflective face. 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® Reflex can be installed within all standard roof applications. Fix the membrane to the roof structure and ensure upper layers overlap lower layers. Work from the bottom moving upwards and ensure there are minimum overlaps used as shown within BS 5534. 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 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® Reflex** 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.

Novia® Reflex is suitable for use in BS 5534 wind uplift applications. Following successful tests, **Novia® Reflex** can be used with a ≤ 345mm batten in zones 1-2 without additional tapes, and in zones 1-5 using our Breather Membrane Lap Tape.

	≤ 345mm batten gauge with battened laps	≤ 250mm batten gauge with battened laps	≤ 345mm batten gauge with taped laps
Novia® Reflex Zone Suitability	Zones 1 to 2	Zones 1 to 5	Zones 1 to 5
Novia® Reflex Wind Uplift Resistance	975 Pa	2257 Pa	1967 Pa

Installation Tapes:

We strongly advise the use of Novia installation tapes, even if tape is not specified for mandatory use within a particular zone under the BS 5534 wind uplift test results. The use of tapes will greatly improve the performance and overall airtightness of the roof structure. We offer a single-sided **Novia® Breather Membrane Lap Tape (BMLT)** 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 (DSLT)**. 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.

Other Notes:

- Achieved U values of the construction are improved when **Novia® Reflex** is installed with the reflective side facing a minimum 25mm air cavity.
- Ensure that a Novia Air & Vapour Control Layer, such as **Novia® 500g, 1000g or 1200g** (virgin grade polythene AVCLs) or **Novia® 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® Reflex** will reduce the risk of condensation within the 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.

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