

Flexible Ductliner

Description

Flexible Ductliner insulation is manufactured from up to 80% recycled glass using a thermoset resin, forming a 24kg density insulation blanket roll.

Applications

Flexible Ductliner Insulation is suitable for use as an internal insulation for ductwork in the Heating Ventilation and Air conditioning (HVAC) Segment. Most commonly applied as an insulation for air conditioning sheet metal ductwork. Flexible Ductliner has an ideal combination of properties making it suitable for use with automated sheet metal cutting and ductmaking machinery. It has the high resiliency of a board, while retaining enough flexibility to be used in roll form. When used in this form, a continuous length of Flexible Ductliner has the benefits of:

- (a) reducing wastage and;
- (b) enabling insulation of L-shaped sections by folding through 90° without cutting.

Product data

Material R-value m ² K/W	Nominal Thickness mm	Width mm	Length m	Density kg/m ³	Weight per roll kg	Coverage m ² per roll	Product Code:
R2.0	70	1380	8	24	18.54	11.04	4005561
R2.0	70	1500	8	24	20.16	12	4003810
R3.0	108	1380	6	24	21.46	8.28	4005562
R3.0	108	1500	6	24	23.32	9	4003811

Note: Not all sizes may be held in stock. Contact your Fletcher Insulation Representative for further details.

Physical properties

Property	Test method/standard	Result	Unit
Nominal density		24	kg/m ³
Thermal conductivity @ 23°C	AS/NZS 4859.1	Complies	m ² K/W
Moisture absorption of glasswool component	When exposed to environmental conditions of 50°C and 95% relative humidity for four days	Less than 0.2% by volume	% by volume

Fire hazard properties

Flexible Ductliner exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Test results
Early Fire Hazard Indices	AS/NZS 1530.3	
Ignitability Index		0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		1

Product limitations

- **Important: Do Not Modify This Product:** Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.
- **Important:** Compliance with evidence of suitability data referenced in this document is only achieved when this product is produced at a Fletcher Insulation approved facility, in accordance with Fletcher Insulation specifications and approved materials.
- This product is not classified as non-combustible in accordance with AS 1530.1 and is not suitable where a non-combustible material is required.
- This product does not meet the non-combustibility or fusion temperature requirements of AS 1668.1 Clause 2.3.2.
- This product does not have a Group Number in accordance with AS 5637.1 (NCC 2022 Volume 1 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining where a group number is required.
- Unfaced Glasswool is not a water or vapour barrier and is not suitable as a water or vapour control.
- Compression of the product will reduce its declared material R-value.
- The maximum service temperature for this product is 300°C
- This product should not come into contact with wet concrete or alkaline materials
- This product is not suitable for use within 500m of a saltwater body in unenclosed or permanently ventilated spaces.

Compliance

NCC 2022

When correctly specified and installed, the product complies or assists to comply with below NCC clauses and relevant standards:

- Complies with AS/NZS 4859.1 as referenced in NCC 2022, Volume 1 Clause J4D3(1) and NCC 2022, Volume 2 Housing Provisions Clause 13.2.2(1).
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2022 Volume 1, Fire hazard properties S7C5 for Air-handling ductwork and Table S7C7 for insulation materials.

NCC 2025

When correctly specified and installed, the product complies or assists to comply with below NCC clauses and relevant standards:

- Complies with AS/NZS 4859.1 as referenced in NCC 2025, Volume 1 Clause J4D3(1) and NCC 2025, Volume 2 Housing Provisions Clause 13.2.2(1).
- When tested or assessed to AS/NZS 1530.3 this product does not exceed the 'Spread of Flame' or 'Smoke Developed' indices as required by NCC 2025 Volume 1, Fire hazard properties S7C5 for Air-handling ductwork and Table S7C7 for insulation materials.

Maintenance and conditions of use

- For installation please refer to AS4254.2 for installation requirements for air handling ductwork.
- Product should be kept dry, not to be exposed to weather in any condition including prior, during and after installation.
- Ensure product is protected from physical damage during storage and avoid packaging being stored under UV light (such as direct sunlight) for extended periods.
- Use of pressure cleaners or mineral based cleaners must not be used on the facing product.
- Foil facing products should not be in contact with any corrosive environments, water or alkaline materials such as wet concrete etc.

Health and safety

Flexible Ductliner is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. Refer to Fletcher Insulation SUIs for more information.

Environmental properties

Flexible Ductliner glasswool is manufactured from up to 80% recycled glass which would otherwise go into landfill and be unsuitable for alternative manufacturing processes.

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products.

The use of Flexible Ductliner guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Technical specification

When specifying, please state the following:

The insulation material shall be Fletcher Insulation FI24 Flexible Ductliner with a nominal thickness of _____mm (specify nominal thickness) and with a material R-value of R _____m²K/W (specify material R-value).

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