

Flexible Ductliner

Description

Flexible Ductliner insulation is manufactured from up to 80% recycled glass using a thermoset resin, producing fine non-combustible fibers and forming a 24kg density insulation blanket roll. A foil or decorative facing material is typically applied to one side for increased acoustic and condensation performance or when hygiene and mechanical cleaning capabilities are a requirement.

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 internal liner 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.

Facing options

A number of facing options can be applied to unfaced flexible ductliner, making it ideal for a broader range of applications:

Sisalation® Heavy Duty Perforated (HDP) Facing Foil:

Sisalation® Heavy Duty Perforated (HDP) Reflective Foil is most suitable in applications where a superior thermal and acoustic performance is required. Commonly used as an internal liner for rigid air-conditioning ducts. Unsuitable for use as a vapour barrier.

Sisalation Vapastop® 883 Facing Foil:

Vapastop® 883 Aluminium Foil Facing is a lightweight facing most suitable in applications where a Continuous Acoustic Membrane (CAM) combined with a superior NRC acoustic performance is required. This facing option has a fully sealed and continuous membrane barrier minimising the risk of fibres entering the ducts air stream, whilst still delivering excellent acoustic absorption. Vapastop® 883 can sustain occasional mechanical cleaning.

Black Matt Facing:

Black Matt Facing (BMF) is an affordable acoustic option in applications where the duct lining may be somewhat visible. It is a light duty tissue unsuitable for mechanical cleaning.

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
R2.0	70	1380	8	24	18.54	11.04
R2.0	70	1500	8	24	20.16	12
R3.0	108	1380	6	24	21.46	8.28
R3.0	108	1500	6	24	23.32	9

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 0.035	W/Mk
Thermal resistance @ 23°C	AS/NZS 4859.1	Complies	m ² K/W
Moisture absorption of glasswool component		Less than 0.2% 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 Faced with Heavy Duty (HD)
Early Fire Hazard Indices		
Ignitability Index	AS/NZS 1530.3	0
Spread of Flame Index		0
Heat Evolved Index		0
Smoke Developed Index		2

Environmental properties

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.

Health and safety

Flexible Ductliner is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®, FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation

Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Technical specification

When specifying, state the following:

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