

FI22 DUCTWRAP

LOW DENSITY LIGHTWEIGHT DUCTWORK INSULATION BLANKET

Description

FI22 Ductwrap Insulation is manufactured from 80% recycled glass using a thermoset resin producing fine non-combustible fibers and forming into an insulation blanket and supplied in rolls. Sisalation® Heavy Duty Facing Foil is applied to one side for condensation management. The Glasswool blanket component of FI22 Ductwrap is made from 22kg density, flexible and resilient glasswool, which is specifically designed to provide exceptional acoustic insulation performance. The Glasswool blanket is flexible enough to wrap around angles and small radii enabling it to maintain exceptional compressive strength whilst maintaining its thickness.

Applications

FI22 Ductwrap is a lightweight, flexible insulation blanket designed for external lagging of sheetmetal ductwork in the heating ventilation and cooling (HVAC) segment. Typically suited for use as external insulation for air-conditioning ductwork. Available in a range of thicknesses that are well suited to the following sectors:

- Retail
- Multi-residential high rise
- Health
- Commercial office spaces
- Hospitality

Features and Benefits

Available in a range of thicknesses	To meet the performance requirements as set out by the NCC.
Lightweight	Easy to handle and makes easy to form the shape of the duct being insulated.
Offers acoustic sound absorption properties	Greatly reduces fan noise within the duct.

Product Data

Facing type	Material R-value m² K/W	Thickness mm	Width mm	Length m	Density kg/m³	Pack weight kg	Coverage m² per roll
Sisalation® Heavy Duty Facing Foil (1200mm wide to cover the width of the insulation blanket).	R0.7	25	1200	15	22	9.9	18
	R0.7	25	1500	15	22	12.37	22.5
	R1.1	38	1200	15	22	15.04	18
	R1.1	38	1200	10	22	10.03	12
	R1.1	38	1500	15	22	18.81	22.5
	R1.2	41	1200	10	22	10.82	12
	R1.2	41	1200	18	22	19.48	21.6
	R1.5	50	1200	10	22	13.2	12
	R1.5	50	1200	15	22	19.8	18
	R1.5	50	1500	12	22	19.8	18
	R2.0	75	1200	7.5	22	14.85	9
	R2.0	75	1500	7.5	22	18.56	11.25

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

Facing Options

Sisalation® Heavy Duty Facing Foil is the standard facing. Alternative facings can be arranged on request. Please contact your Fletcher Insulation representative for further details.

Physical Properties

Property	Test Method	Result	Unit
Nominal density	ASTM C167	22	kg/m³
Thermal resistance @23°C	AS/NZS 4859.1	Complies	m² K/W
Moisture absorption		Less than 0.2% by volume	

Fire Hazard Properties

FI22 Ductwrap exhibits the following characteristics when tested in accordance with the following standards:

Property	Test Method/Standard	Result
Early Fire Hazard Indices		
Ignitability Index	Ignitability, Flame Propagation,	0
Spread of Flame Index	Heat Release and Smoke Release	0
Heat Evolved Index	(AS/NZS 1530.3)	0
Smoked Developed Index		2
Burning test	UL181.11	Complies

Acoustic Performance

Sound Absorption

The performance of sound absorption for insulation is described by the Noise Reduction Coefficient (NRC) or Weighted Sound Absorption Coefficient. In sound absorption applications, the NRC is used as an acoustic performance measure. The higher the NRC, the greater the sound absorption at the representative frequencies. The NRC is the calculated average result of four frequencies: 250 Hz, 500 Hz, 1,000 Hz and 2,000 Hz. Ductwrap achieves the following sound absorption coefficients when tested in accordance with AS ISO 354 – 2006:

Product	Thickness mm	Sound Absorption Coefficients at frequencies (Hz) of:										NRC	αw
		100	125	250	500	1000	2000	3150	4000	5000			
FI22 Ductwrap faced with Sisalation® Heavy Duty Facing Foil	38	0.16	0.28	0.84	1.05	0.35	0.12	0.11	0.10	0.14	0.60	0.20 (LM)	
	50	0.21	0.34	1.15	0.79	0.32	0.12	0.07	0.02	0.00	0.60	0.20 (LM)	

Environmental Properties

FI22 Ductwrap Glasswool Insulation 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®.

Health and Safety

Ductwrap 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.

Technical Specification

When specifying, state the following: The insulation material shall be FI22 Ductwrap with of nominal thickness of _____mm (specify nominal thickness) faced with Sisalation® Heavy Duty Facing Foil and with a Material R-value of R _____m² K/W (specify Material R-value). Supplied by Fletcher Insulation, the insulation material shall be installed in accordance with Fletcher Insulation.

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