

TECHNICAL DATA SHEET

DUCTWRAP INSULATION BLANKET FOR MECHANICAL SERVICES

Product description and typical applications

Ductwrap is a lightweight, flexible insulation blanket designed for external lagging of sheetmetal ductwork as well as low to medium temperature industrial equipment and appliances. Ductwrap insulation is typically suited for the use in applications such as air-conditioning ductwork, hot water tanks, and as an effective energy saving material on process vessels operating up to 340°C. The glasswool blanket is sufficiently flexible to wrap around sharp angles and small radii with sufficient compressive strength to maintain its thickness.

Physical characteristics

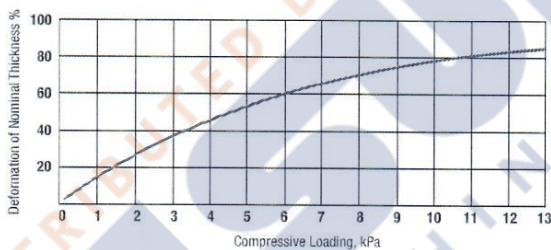
Facing type	Material R-value m ² K/W	Nominal thickness mm	Roll dimensions	Density kg/m ³	Mass/unit area kg/m ²
Sisalation® Heavy Duty Reflective Foil Laminate (1200mm wide to match the width of the insulation blanket).	R0.7	25	1200mm x 15m	22	0.6
	R1.1	38	1200mm x 15m	22	0.8
	R1.2	41	1200mm x 18m	22	0.9
	R1.5	50	1200mm x 18m	22	1.1
	R2.0	75	1200mm x 7.5m	22	1.7

Thermal performance

Ductwrap complies with the requirements of AS/NZS 4859.1:2002 including Amendment 1.

Compressive strength

Flexible Ductwrap has excellent compressive strength and resilience to allow for full recovery following compression. Deformation under compression loading is illustrated in the following graph:



Acoustic performance

Ductwrap achieves the following sound absorption coefficients when tested in accordance with AS ISO 354 - 2006:

	Nominal thickness mm	Sound absorption coefficients (reverberation) at frequencies (Hz) of:						NRC
		125	250	500	1000	2000	4000	
Sisalation® Heavy Duty (HD) Facing	38	0.25	0.80	1.00	0.35	0.15	0.10	0.60
	50	0.35	1.00	0.85	0.35	0.15	0.05	0.60



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Early fire hazard properties

Ductwrap achieves the following results when tested in accordance with AS1530.3-1999:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-2

Maximum service temperature

Fletcher Insulation glasswool is manufactured for use at a maximum service temperature of 340°C. However, given that a Sisalation® Heavy Duty (HD) laminate is adhered to the blanket, the maximum service temperature of Ductwrap insulation shall not exceed 70°C. When used in conjunction with flexible ductwork, the temperature tolerance of the core and sleeve must be considered as these components will limit the temperature tolerance.

Moisture absorption

Ductwrap absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

Safe to use

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. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Green Star compliant

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

Specification notes

The insulation material shall be Fletcher Insulation Ductwrap with a Material R-value of R _____ m² K/W (specify Material R-value) at a nominal thickness of _____ mm (specify nominal thickness).

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