

General Purpose Insulation blanket for mechanical services

Description

General Purpose is manufactured from 80% recycled glass forming a lightweight, flexible blanket. It is available in various densities of 18kg, 22kg and 24kg. Sisalation® Facing Foil is applied to one side for condensation management.

Applications

General Purpose is a lightweight, flexible insulation blanket designed for the external lagging of sheetmetal ductwork as well as low to medium temperature industrial equipment and appliances. It can also be used as a general insulating roofing blanket for commercial building where desired. General Purpose insulation is typically suited for 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.

Product data

Density kg/m ³	Facing	Material R-value m ² K/W	Thickness mm	Width mm	Length m	Product code	
18	Sisalation® Medium Duty (MD) 430 Facing Foil 150mm lap	R2.0	75	1380	8	935476	
	Sisalation® Heavy Duty (HD) 450 Facing Foil 150mm lap	R2.0	75	1380	12	935475	
22	Unfaced	R1.2	41	1200	18	935433	
		R2.0	75	1200	7.5	940186	
	Sisalation® Medium Duty (MD) 430 Facing Foil 150mm lap	R1.1	38	1380	15	235329	
		R0.7	25	1200	15	935321	
		R1.5	50	1200	15	935322	
		Sisalation® Heavy Duty (HD) 450 Facing Foil 150mm lap	R1.5	50	1380	10	935438
			R1.5	50	1380	15	935318
			R2.0	75	1200	7.5	935327
R2.0	75	1425	9	935332			
24	Unfaced	R0.7	25	1500	20	936135	
		R1.5	50	1500	12	936140	

Note: FI24 General Purpose insulation may be supplied unfaced or with a Sisalation® Heavy Duty (HD) vapour barrier facing laminate at 1350mm or 1500mm widths.

Physical properties

Property	Test method/standard	Result	Unit
Nominal density		18, 22 or 24	kg/m ³
Thermal resistance @ 23°C	AS/NZS 4859.1	Complies	m ² K/W

Fire hazard properties

General Purpose exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Test results	
		Unfaced	Sisalation® HD Facing Foil
Combustibility	AS/NZS 1530.1	Non-combustible	
Early Fire Hazard Indices	AS/NZS 1530.3		
Ignitability Index		0	0
Spread of Flame Index		0	0
Heat Evolved Index		0	0
Smoke Developed Index		0-1	< 2
Burn Test (excluding 24kg/m ³)	UL181.11 (Compliance to AS 4254.2)	-	Complies*

*Result is for 18kg and 22kg density only.

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

General Purpose 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

The insulation material shall be Fletcher Insulation® FI_____ (specify density 18, 22, 24) General Purpose with a Material R-value of R _____ m²K/W (specify Material R-value) at a nominal thickness of _____ mm (specify nominal thickness).

Where a vapour barrier laminate is to be adhered to the blanket, the specification shall state 'incorporating a Sisalation® MD or HD Facing Foil _____ mm wide' (specify 1200, 1380, 1425 or 1500mm width).

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