



GLASSWOOL FLEXITEL (24KG/M³)

Introduction

Bradford Flexitel can be used for both external and internal, thermal and acoustic insulation on HVAC ductwork.

Product Description

Bradford Flexitel is manufactured from an engineered glasswool insulation blanket typically with an appropriate facing. The blanket is manufactured by spinning molten glass, containing up to 80% recycled content, into fine wool like fibres.. These are bonded together using a thermosetting resin. The product can be identified by its golden appearance.

Applications

Flexitel is suited for external insulation of ductwork, plenums and risers. Flexitel greatly reduces heat gains or losses through the duct walls so that energy costs are reduced and conditioned air reaches the outlet at the required temperature. Flexitel comes in a range of thicknesses that meet the performance requirements as set out by the New Zealand Building Code. Typical HVAC applications include;

- Offices
- High rise
- Hospitals
- Shopping centres etc

Benefits

- Lightweight insulation
- Can be easily handled
- High tensile strength
- Easily forms the shape of the duct to be insulated
- Helps meet the NZBC energy efficiency requirements
- Provides both energy and cost savings
- Reduces fan noise in HVAC ducts
- Biosoluble material - safe to use

Available Facings

Standard factory applied facings are available. Various grades of Thermofoil as well as black or plain glass tissue can be adhered to Flexitel to meet the needs of the application. Please contact the Bradford office with your requirements.

Typically foil facings are used on exterior ducts insulation while perforated foil, and tissue facings are used for internal duct lining.

Health and Safety

This product is manufactured to the latest Fibre Bio-Soluble (FBS-1) Glasswool formulation and is not classified as hazardous according to the criteria of the ASCC (formally NOHSC) guidelines. For further information refer MSDS sheet on Bradford website.

SKU Table

Base Blanket Material R-value	Nominal Thickness (mm)	Nominal Length (m)	Nominal Width (mm)	Pieces per Pack	Nominal Coverage per Piece (m ²)	Nominal Coverage (m ²) per Pack	Nominal Piece Weight (kg)	Nominal Pack Weight (kg)
R0.7	25	15	1200	1	18	18	10.8	10.8
R0.7	25	15	1500	1	22.5	22.5	13.5	13.5
R1.1	38	15	1200	1	18	18	16.4	16.4
R1.1	38	10	1500	1	15	15	13.7	13.7
R1.1	38	2.4	1200	6	2.88	17.28	2.6	15.8
R1.1	38	2.4	1500	6	3.6	21.6	3.3	19.7
R1.4	50	15	1200	1	18	18	21.6	21.6
R1.4	50	10	1500	1	15	15	18.0	18.0
R1.4	50	2.4	1200	5	2.88	14.4	3.5	17.3
R1.4	50	2.4	1500	5	3.6	18	4.3	21.6
R2.1	75	10	1200	1	12	12	21.6	21.6
R2.1	75	7.5	1500	1	11.25	11.25	20.3	20.3
R2.1	75	2.4	1200	4	2.88	11.25	5.2	20.7
R2.1	75	2.4	1500	4	3.6	14.4	6.5	25.9

Products not stocked in NZ may be subject to minimum runs. Please check with the Bradford office before ordering.

GLASSWOOL FLEXITEL

Physical Properties

Density	kg/m ³	24
Maximum Service Temperature		Glasswool: 350°C
Thermal Conductivity	Based on measurements made in accordance with AS2464:5 and AS2464:6	
Fire Hazard Properties	When tested in accordance to AS/NZS 1530.3:1999	<ul style="list-style-type: none"> • Ignitability: 0 • Spread of flame: 0 • Heat Evolved: 0 • Smoke Developed: 0
Compressive Resistance	When tested under comprehensive load, measured in accordance with BS 2972-1975	
Corrosion Resistance	When tested in accordance with BS 3958.5:1969	pH 7.5-8.0 Incapable of corroding steel
Moisture Absorption	When left in a controlled atmosphere of 50°C and 95% relative humidity for four days	Less than 0.2% by volume
AS4859 Compliance	Complies with AS/NZ4859.1 "Materials for the thermal insulation of buildings"	Complies
Sample Specification		The insulation material shall be Bradford Flexitel Glasswool of thickness () mm faced with (Specify facing). For installation specifications refer to the relevant Application Brochure in the Bradford Insulation Building Literature series.

Sound Absorption

When tested in a reverberation chamber in accordance with AS 1045:1988

Product	Thickness (mm)	Frequency (Hz)							
		125	250	500	1000	2000	4000	5000	NRC
Unfaced	25	0.13	0.31	0.55	0.76	0.88	0.95	0.98	0.62
Perforated Foil Faced	25	0.13	0.33	0.75	0.99	1.12	0.94	0.89	0.80
Unfaced	50	0.42	0.64	0.92	1.07	0.98	1.02	1.03	0.90
Perforated Foil Faced	50	0.39	0.84	1.08	1.2	1.06	1.01	0.95	1.05