



## GLASSWOOL FLEXITEL

(24KG/M<sup>3</sup>)

### 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 65% 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 Building Code of Australia. Typical HVAC applications include;

- Offices
- High rise
- Hospitals
- Shopping centres etc

### Benefits

- Lightweight insulation
- Can be easily handled
- Easily forms the shape of the duct to be insulated
- Helps meet the BCA energy efficiency requirements
- Provides both energy and cost savings
- Reduces fan noise in HVAC ducts
- Biosoluble material - safe to use
- Approved for use on site by the Unions
- Made in Australia

### 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 your nearest Bradford sales 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 <sup>2</sup> )	Nominal Coverage (m <sup>2</sup> ) 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
R2.8	100	2.4	1200	2	2.88	5.76	6.9	13.8
R3.5	130	2.4	1200	2	2.88	5.76	8.98	18.0

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## Physical Properties

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

**Bradford**<sup>™</sup>  
for smarter environments

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