



# GLASSWOOL ULTRATEL

(48KG/M<sup>3</sup>)

## Introduction

Bradford Ultratel is designed as a high performance internal insulation on HVAC ductwork. It also has many applications as a general insulation product to enhance both thermal and acoustic performance.

## Product Description

Bradford Ultratel is manufactured as a semi rigid board or pliable blanket. Both forms are able to have various facings applied to one side. The glass fibre 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

Ultratel is designed to provide high performance internal insulation of heating, air conditioning and cooling ducted systems. Ultratel delivers superior sound absorption and attenuation due to its higher density and rigid properties. Ultratel 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

- High Performance
- Easily handled
- High compressive strength
- Resists damage
- Maximum performance at minimal thickness
- Helps meet the BCA Energy Efficiency provisions
- Easily forms the shape of the duct to be insulated
- Provides both energy and cost savings
- Biosoluble material - safe to use
- Approved for use on site by the Unions

## Available Facings

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

Thermfoil HD perf (10% open area) is the most common facing for duct lining whilst black tissue provides a higher level of acoustic performance and Acoustistuff combines acoustic performance with cleanability.

## 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 FBS-1 Glasswool 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 Pack (m <sup>2</sup> )
R0.76	25	10	1200	1	12
R0.76	25	10	1500	1	15
R0.76	25	2.4	1200	6	17.3
R1.2	38	10	1200	1	12
R1.2	38	10	1500	1	15
R1.5	50	7.5	1200	1	9
R1.5	50	7.5	1500	1	11.2
R1.5	50	2.4	1200	3	8.6
R2.3	75	2.4	1200	2	5.7
TBA	100	2.4	1200	2	5.7

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## Physical Properties

<b>Nominal Density</b>	kg/m <sup>3</sup>	48
<b>Maximum Service Temperature</b>		Glasswool: 350°C; Facing 70°C
<b>Thermal Conductivity</b>	Based on measurements made in accordance with AS2464:5 part 5 and 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, 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 to corrode 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"	Thermal conductivity k= 0.330 W/mK @ 23°C
<b>Sample Specification</b>		The insulation material shall be Bradford Ultratel Glasswool having a material R value R <sub>m</sub> ( ) (specify material thermal value) 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	Nominal Thickness (mm)	Frequency (Hz)							
		125	250	500	1000	2000	4000	5000	NRC
Unfaced	25	0.03	0.24	0.65	0.98	1.07	1.03	1.01	0.73
Perforated Foil Faced	25	0.12	0.31	0.81	1.09	1.09	0.91	0.89	0.77
Unfaced	50	0.34	0.65	1.23	1.11	1.08	1.02	0.98	1.02
Perforated Foil Faced	75	0.69	1.19	1.15	1.09	1.03	0.92	0.9	1.11

**Bradford™**  
for smarter environments

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