

# GLASSWOOL SUPERTEL (32kg/m<sup>3</sup>)

## INTRODUCTION

Bradford Supertel is designed for applications where high thermal and acoustic insulation performance is required at minimal thickness. Available in either blanket or semi-rigid board form, Supertel is available with a range of functional and decorative facing materials to complement its base material performance properties.

## PRODUCT DESCRIPTION

Manufactured from a resilient engineered Glasswool insulation blanket or medium density board, typically with an appropriate foil or decorative facing material. Supertel is manufactured by spinning molten glass, containing up to 65% recycled content, into fine wool-like fibres. These inorganic, non-combustible fibres are bonded together using a thermosetting resin giving the product a hydrophobic ability to repel water.

## APPLICATIONS

Designed for a range of applications, typically used as an internal lining for air conditioning duct work, the medium density of Supertel is also very effective behind perforated cladding where additional support is required. Available in a broad range of thicknesses that meet the performance requirements as set out by the NCC/BCA. Typical applications include;

- HVAC – excellent thermal, fire, acoustic and particle retention properties
- Under soffit – high thermal and acoustic performance with a range of facing materials
- Under slab for car parks – a range of acoustic and light reflective properties available
- Shaft linings - easy to fasten, low profile acoustic insulation

## SKU TABLE

Base 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 per Pack (m <sup>2</sup> )	Nominal Piece Weight (kg)	Nominal Pack Weight (kg)
R0.4	13	2.4	1200	16	2.9	46.1	1.2	19.2
R0.8	25	1.5	1200	1	18.0	18.0	14.4	14.4
R0.8	25	1.5	1500	1	22.5	22.5	18.0	18.0
R0.8	25	2.4	1200	10	2.9	28.8	2.3	23.0
R0.8	25	2.4	1500	10	3.6	36.0	2.9	28.8
R1.2	40	1.5	1200	1	18.0	18.0	21.9	21.9
R1.2	40	1.0	1500	1	15.0	15.0	18.2	18.2
R1.2	40	2.4	1200	6	2.9	17.3	3.5	21.0
R1.2	40	2.4	1500	6	3.6	21.6	4.4	26.3
R1.5	50	1.0	1200	1	12.0	12.0	19.2	19.2
R1.5	50	1.0	1500	1	15.0	15.0	24.0	24.0
R1.5	50	2.4	1200	5	2.9	14.4	4.6	23.0
R1.5	50	2.4	1500	5	3.6	18.0	5.8	28.8
R1.8	63	2.4	1200	4	2.9	11.5	5.8	23.2
R2.0	67	2.4	1500	3	3.6	10.8	7.7	23.1
R2.2	75	7.5	1200	1	9.0	9.0	21.6	21.6
R2.2	75	2.4	1200	3	2.9	8.6	6.9	20.7
R2.2	75	2.4	1500	2	3.6	7.2	8.6	17.3
R3.0	100	2.4	1200	2	2.9	5.8	9.2	18.4
R3.0	100	2.4	1500	2	3.6	7.2	11.5	23.0

Note: Most SKU's are available as either blanket or board product.

## HEALTH AND SAFETY

This product is manufactured using the latest safe-to-handle 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 the Bradford website.

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## BENEFITS

- Excellent thermal and acoustic properties – medium density performance at minimal thickness
- Non-combustible fibre – inorganic fibre does not add to the fuel load in the building
- All products thermally rated to AS4859.1 to control density and fibre size and characteristics
- Lightweight - easily handled and retained to surfaces with standard fasteners
- Range of functional and decorative facings available
- Made from a safe to handle Fibre Bio-Soluble (FBS-1) formulation
- Made in Australia for Australian conditions

## AVAILABLE FACINGS

A range of standard factory applied functional and decorative facing materials are available.

- Thermofoil – low emittance reflective foil, high thermal performance, good light reflectance, various duty strengths available.
- Thermofoil HD Perf – perforated low emittance reflective foil, good thermal performance, excellent acoustic performance, not suitable for moist environments
- Thermofoil HD Perf Black – perforated black antiglare foil for concealed applications, excellent acoustic performance, not suitable for moist environments or visible applications
- Bradford Ultraphon – black high quality appearance, high thermal and acoustic performance, black woven glass yarn facing material, ideal for aesthetic applications when located behind perforated/slotted acoustic wall or ceiling panels
- Bradford Acoustituff – reinforced reflective foil, high thermal performance, good light reflectance and easy to clean provide excellent tensile and puncture resistance
- Bradford BMF – black matt tissue facing, limited thermal performance, good acoustic performance, not suitable for aesthetic applications or moist environments

## PHYSICAL PROPERTIES

<b>DENSITY</b>	kg/m <sup>3</sup>	32
<b>MAXIMUM SERVICE TEMPERATURE</b>	C°	Glasswool: 350°C; Facing Materials 70°C
<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: 1</li> </ul>
<b>MOISTURE ABSORPTION</b>	When left in an atmosphere of 50°C and 95% relative humidity for four days	Less than 0.2% by volume
<b>THERMAL COMPLIANCE</b>	AS/NZ4859.1 "Materials for the thermal insulation of buildings"	Complies
<b>SAMPLE SPECIFICATION</b>	The insulation material shall be Bradford Supertel Glasswool of thickness ( ) mm faced with (Specify facing). For installation specifications refer to the relevant Bradford Product Selector.	

## SOUND ABSORPTION

Sound absorption results tested in accordance with AS/ISO 354-2006 and NRC rated in accordance with ASTM C423-90A. Please note that additional acoustic data for faced Supertel products is available in the Bradford Insulation Product Selectors.

Product	Thickness (mm)	Frequency (Hz)							
		125	250	500	1000	2000	4000	NRC	
Supertel 38mm RM 1.1	Unfaced	38	0.15	0.40	0.85	1.00	1.00	0.95	0.85
Supertel 50mm RM 1.5	Unfaced	50	0.20	0.60	1.00	1.00	1.00	1.00	0.95
Supertel 75mm RM 2.2	Unfaced	75	0.35	1.00	1.00	1.00	1.00	1.00	1.05
Supertel 100mm RM 3.0	Unfaced	100	0.50	1.00	1.00	1.00	1.00	1.00	1.15
Supertel 75mm Rm 2.2	BMF	75	0.35	1.00	1.00	1.00	1.00	1.00	1.05
Supertel 38mm Rm 1.1	Acoustituff	38	0.28	0.53	1.08	0.88	0.47	0.25	0.75
Supertel 50mm Rm 1.5	Acoustituff	50	0.25	0.85	1.00	0.90	0.55	0.30	0.85
Supertel 75mm Rm 2.2	Acoustituff	75	0.50	1.00	1.00	0.85	0.55	0.30	0.95
Supertel 100mm Rm 3.0	Acoustituff	100	0.85	1.00	1.00	0.85	0.60	0.35	0.90
Supertel 38mm Rm 1.1	Ultraphon	38	0.14	0.45	0.96	1.00	0.96	0.93	0.85
Supertel 50mm Rm 1.5	Ultraphon	50	0.20	0.65	1.00	1.00	1.00	1.00	1.00
Supertel 75mm Rm 2.2	Ultraphon	75	0.35	1.00	1.00	1.00	1.00	1.00	1.10
Supertel 75mm Rm 2.2	HD Perf	75	0.40	1.00	1.00	1.00	1.00	0.90	1.10
Supertel 100mm Rm 3.0	HD Perf	100	0.70	1.00	1.00	1.00	1.00	1.00	1.15

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