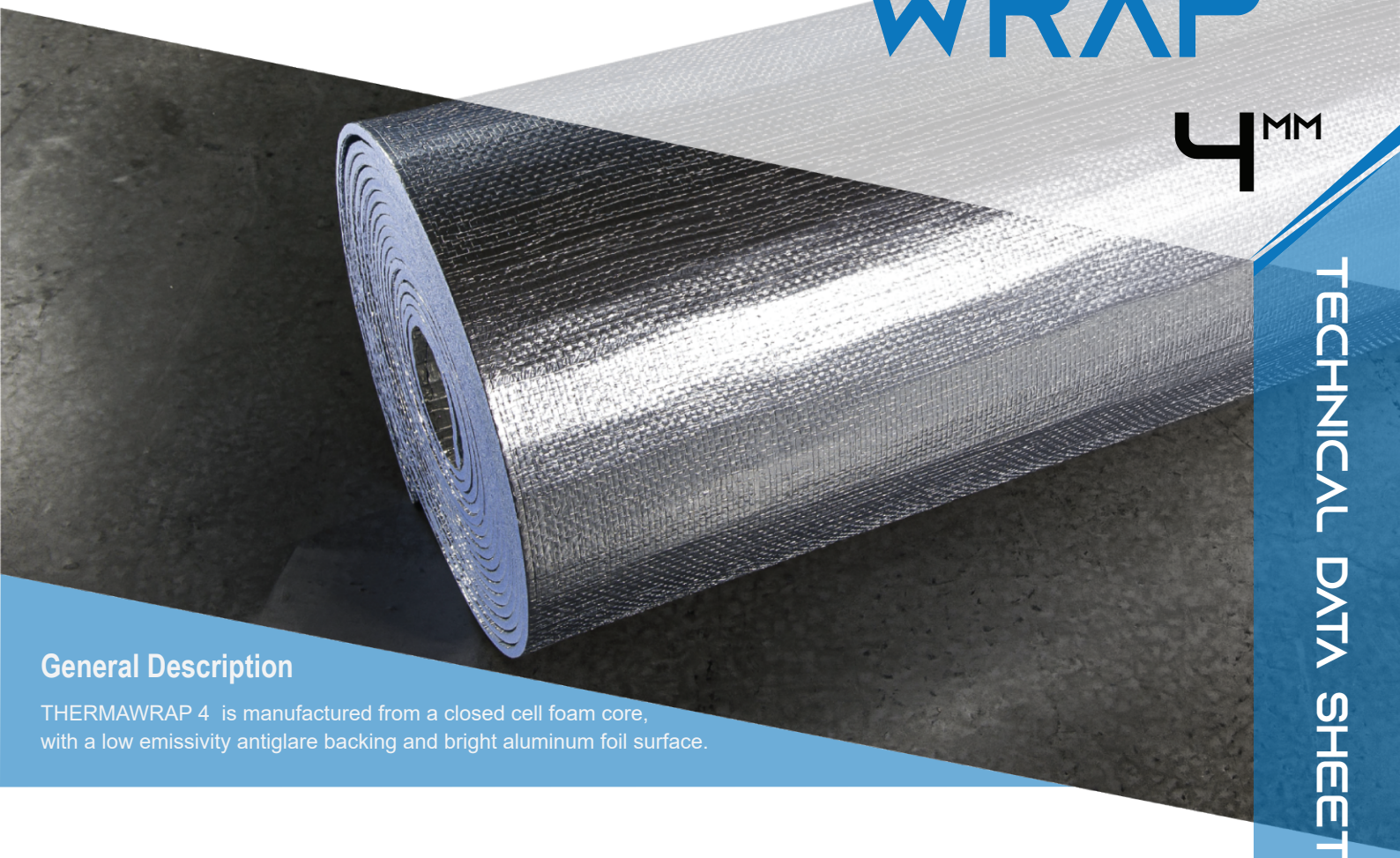
POLYON

THERMA® WRAP

4MM

TECHNICAL DATA SHEET & TEST REPORT SUMMARY



General Description

THERMAWRAP 4 is manufactured from a closed cell foam core, with a low emissivity antiglare backing and bright aluminum foil surface.

Th 4mm	W 1.35m	L 22.25m	Flap 150mm	R-value 0.13

Common Thermal Value Applications – In Accordance with AS/NZS 4859.1:2002 (Amdt 1:2006)

Installed Application	Summer RT Value	Winter RT Value
Pitched Metal Roof 22° with Flat Plasterboard Attic Ceiling	2.44	1.55
Pitched Metal Roof 1°- 5° with no Ceiling	1.69	0.83
Metal Cladding, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.63	1.90

Application

THERMAWRAP 4 is suitable for a variety of residential, rural and light commercial applications.
It can be used successfully in the following applications:

- Insulation of metal roofs
- Insulation of tile roofs
- Insulation of external walls behind lightweight claddings

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THERMA® WRAP 4 MM

TECHNICAL DATA SHEET & TEST REPORT SUMMARY

Australian Standards Compliance and NCC

The National Construction Code of Australia requires all insulation products to meet strict Australian Standards.
All Polyon insulation products meet these standards and offer the following properties.

Testing	Standard Clause	Standard	Unit	Acceptance Limits	ThermaWrap 4.0mm
Resistance to Dry Delamination	5 (a)	AS/NZS 4201.1	-	Pass	Pass
Resistance to Wet Delamination	5 (b)	AS/NZS 4201.2	-	Pass	Pass
Shrinkage	5 (c)	AS/NZS 4201.3	%	≤ 0.5	0.2
Bursting Strength	6.14	AS2001.2.19	N	NA	554
Resistance to Water Penetration	6.4	AS/NZS 4201.4	-	High	High (Pass)
Flammability Index	6.5	AS 1530.2	Index	1 ≤ 5	1
Surface Water Absorbency	6.6	AS/NZS 4201.6	g/m^2	Unclassified	77.6 (Unclassified)
Flammability Index	-	AS/NZS 1530.3	Index	a) Ignitability index (0-20) b) Spread of Flame Index (0-10) c) Heat Evolved Index (0-10) d) Smoke Developed Index (0-10)	a) 0 b) 0 c) 0 d) 1
Steady State Thermal Transmission Properties by mean of Heat Flow Apparatus (R-Value)	-	ASTM C518-2010	m^2K/W	-	0.13
Folding Endurance					-
MD	4 (d)	AS 1301.423	Index	-	2.2 (Pass)
CD					1.8 (Pass)
Tensile Strength					**Medium**
MD	6.12	AS 1301.448	KN/m	-	10
CD					8.3
Edge tear Resistance					**Extra heavy**
MD	6.13	AS 4200.1.1994	N	-	473
CD					380
Resistance to Water Vapour Transmission	6.2	ASTM E96 Procedure B (water method)	µg/NS	-	0.0116
Emissivity					**Reflective**
Silver face	6.3	AS/NZS 4201.5	Index	-	0.03
Blue antiglare face					0.07

Storage & Handling Information

THERMAWRAP 4 should be used for the purpose for which it is intended ie. as a Reflective Insulation and Vapour Barrier. After delivery it should be stored in a dry place, free from rain or the elements. The material is not designed to be left exposed to direct sunlight or the weather for an extended period of time. During the construction process, whilst quite durable the material should be covered by roof or wall cladding as soon as possible. Alkaline products such as wet concrete may cause damage to the material and contact with these products and this insulation, should be avoided.

Health & Safety

THERMAWRAP 4 is a safe and easy to use product provided you adhere to some basic safety considerations.

- Wear suitable PPE to protect you from reflected UV radiation and the sun. This may include sunglasses or tinted lenses.
- As a product with both an Aluminium Surface and Backing, this product may conduct electricity. As such care should be taken to ensure the material and any associated fixings that may conduct electricity do not come into contact with electrical wiring during installation or use.

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PROUDLY MANUFACTURED AUSTRALIAN OWNED

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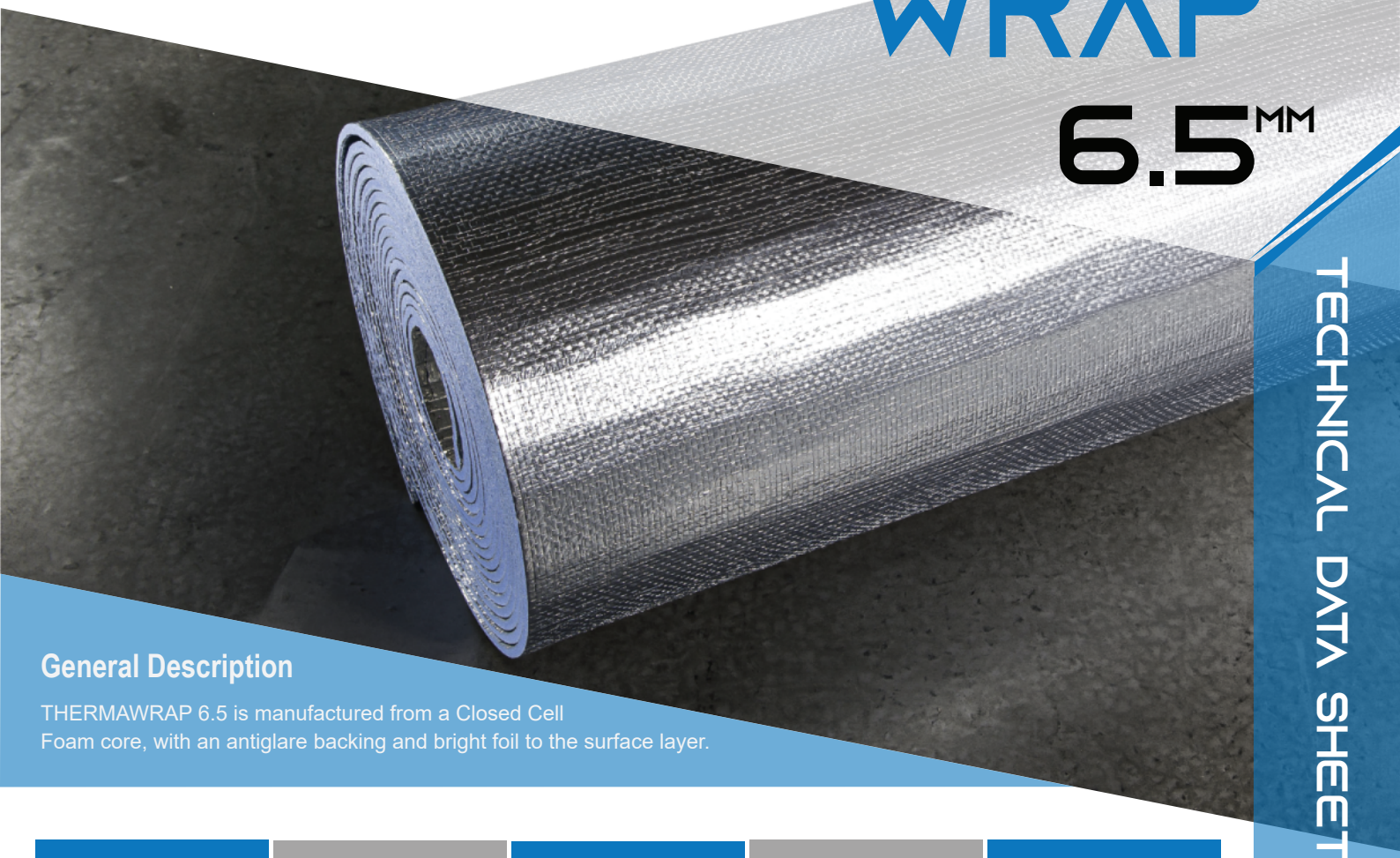
THERMA® WRAP 6.5MM

TECHNICAL DATA SHEET & TEST REPORT SUMMARY



General Description

THERMAWRAP 6.5 is manufactured from a Closed Cell Foam core, with an antiglare backing and bright foil to the surface layer.

Th 6.5mm	**W** 1.35m	**L** 22.25m	**Flap** 150mm	**R-value** 0.18

Common Thermal Value Applications – In Accordance with AS/NZS 4859.1:2002 (Amdt 1:2006)

Installed Application	Summer RT Value	Winter RT Value
Pitched Metal Roof 1°- 5° with Flat Plasterboard Ceiling Cavity	3.83	1.64
Pitched Metal Roof 22° with Flat Plasterboard Attic Ceiling	2.49	1.20
Brick Veneer Wall, 90mm Frame and 10mm Plaster Lining	1.88	2.16
Metal Cladding, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.68	1.95
Fibre Cement or Weatherboard, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.68	1.95

Application

THERMAWRAP 6.5 With a material R-value of R 0.18, this part of our insulation range provides a great option for custom thermal applications where a thermal break is not a Deemed to Satisfy requirement. It can be used successfully in the following applications:

- Insulation of metal roofs and masonry/ brick walls
- Insulation of external walls behind lightweight cladding where separated by a batten

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THERMA® WRAP 6.5MM

TECHNICAL DATA SHEET & TEST REPORT SUMMARY

Australian Standards Compliance and NCC

The National Construction Code of Australia requires all insulation products to meet strict Australian Standards.
All Polyon insulation products meet these standards and offer the following properties.

Testing	Standard clause	Standard	Unit	Acceptance Limits	Thermalwrap 6.5mm
Resistance to Dry Delamination	5 (a)	AS/NZS 4201.1	-	Pass	Pass
Resistance to Wet Delamination	5 (b)	AS/NZS 4201.2	-	Pass	Pass
Shrinkage	5 (c)	AS/NZS 4201.3	%	≤ 0.5	0.3
Bursting Strength	6.14	AS2001.2.19	N	NA	586
Resistance to Water Penetration	6.4	AS/NZS 4201.4	-	High	High (Pass)
Flammability Index	6.5	AS 1530.2	Index	1 ≤ 5	2
Surface Water Absorbency	6.6	AS/NZS 4201.6	g/m^2	Unclassified	98.6 (Unclassified)
Flammability Index	-	AS/NZS 1530.3	Index	a) Ignitability index (0-20) b) Spread of Flame Index (0-10) c) Heat Evolved Index (0-10) d) Smoke Developed Index (0-10)	a) 0 b) 0 c) 0 d) 1
Steady State Thermal Transmission Properties by mean of Heat Flow Apparatus (R-Value)	-	ASTM C518-2010	m^2K/W	-	0.18
Folding Endurance MD CD	4 (d)	AS 1301.423	Index	-	- more that 2 (Pass) more that 1.7 (Pass)
Tensile Strength MD CD	-	AS 1301.448s	KN/m	-	**Extra heavy** 20 13.1
Edge tear Resistance MD CD	5.3.2.3	AS 4200.1.2017	N	-	**Extra heavy** 804 553
Resistance to Water Vapour Transmission	5.3.4	ASTM E96-2016	µg/NS	-	0.004
Emissivity Silver face Blue antiglare face	6.3	AS/NZS 4201.5-1994	Index	-	**Reflective** 0.05 0.07

Storage & Handling Information

THERMAWRAP 6.5 should be used for the purpose for which it is intended ie. as a Reflective Insulation and Vapour Barrier. After delivery it should be stored in a dry place, free from rain or the elements. The material is not designed to be left exposed to direct sunlight or the weather for an extended period of time. During the construction process, whilst quite durable the material should be covered by roof or wall cladding as soon as possible. Alkaline products such as wet concrete may cause damage to the material and contact with these products and this insulation, should be avoided.

Health & Safety

THERMAWRAP 6.5 is a safe and easy to use product provided you adhere to some basic safety considerations.

- Wear suitable PPE to protect you from reflected UV radiation and the sun. This may include sunglasses or tinted lenses.
- As a product with both an Aluminium Surface and Backing, this product may conduct electricity. As such care should be taken to ensure the material and any associated fixings that may conduct electricity do not come into contact with electrical wiring during installation or use.

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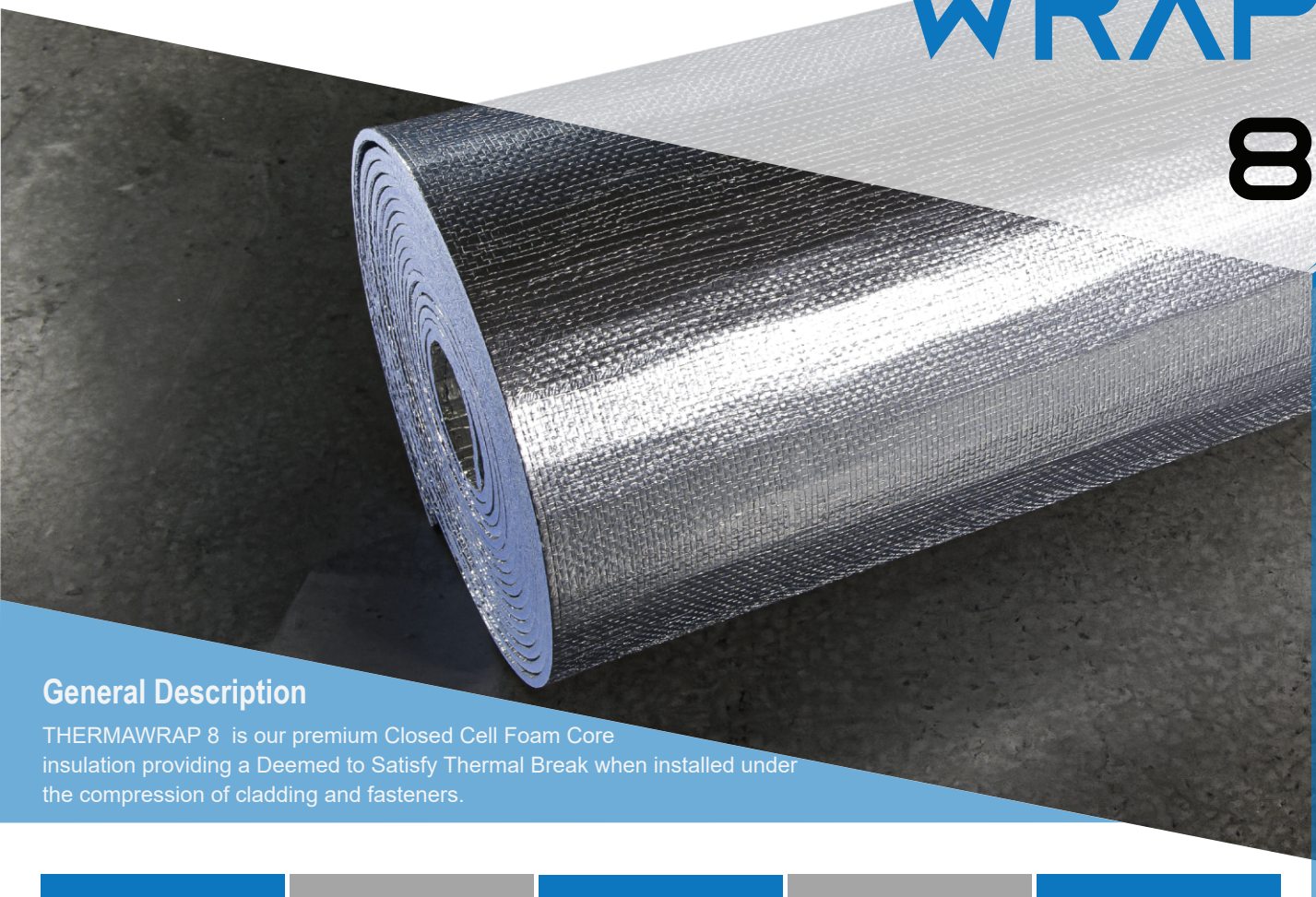

General Description

THERMAWRAP 8 is our premium Closed Cell Foam Core insulation providing a Deemed to Satisfy Thermal Break when installed under the compression of cladding and fasteners.

Th 8 mm	W 1.35m	L 22.25m	Flap 150mm	R-value 0.21

Common Thermal Value Applications – In Accordance with AS/NZS 4859.1:2002 (Amdt 1:2006)

Installed Application	Summer RT Value	Winter RT Value
Pitched Metal Roof 1°- 5° with Flat Plasterboard Ceiling Cavity	3.83	1.67
Pitched Metal Roof 1°- 5° with no Ceiling	1.77	0.91
Brick Veneer Wall, 90mm Frame and 10mm Plaster Lining	1.91	2.19
Metal Cladding, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.71	1.98
Fibre Cement or Weatherboard, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.83	2.11

Application

THERMAWRAP 8 With a material R value of R 0.21 under compression, this product is suited to a broad range of commercial and residential applications.

It can be used successfully in the following applications:

- Insulation of various commercial and domestic roof claddings including metal and tile.
- Insulation of external walls, except where non-combustible material is required or manufacturers require vapour permeable barriers.

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Australian Standards Compliance and NCC

The National Construction Code of Australia requires all insulation products to meet strict Australian Standards.
All Polyon insulation products meet these standards and offer the following properties.

Testing	Standard Clause	Standard	Unit	Acceptance Limits	ThermaWrap 8 mm
Resistance to Dry Delamination	5 (a)	AS/NZS 4201.1	-	Pass	Pass
Resistance to Wet Delamination	5 (b)	AS/NZS 4201.2	-	Pass	Pass
Shrinkage	5 (c)	AS/NZS 4201.3	%	≤ 0.5	0.2
Bursting Strength	6.14	AS2001.2.19	N	NA	505.4
Resistance to Water Penetration	6.4	AS/NZS 4201.4	-	High	High (Pass)
Flammability Index	6.5	AS 1530.2	Index	1 ≤ 5	1
Surface Water Absorbency	6.6	AS/NZS 4201.6	g/m^2	Unclassified	98.6
Flammability Index	-	AS/NZS 1530.3	Index	a) Ignitability index (0-20)	a) 0
				b) Spread of Flame Index (0-10)	b) 0
				c) Heat Evolved Index (0-10)	c) 0
				d) Smoke Developed Index (0-10)	d) 1
Steady State Thermal Transmission Properties by mean of Heat Flow Apparatus (R-Value)	-	ASTM C518-2010	m^2K/W	-	0.21
Folding Endurance					-
MD	4 (d)	AS 1301.423	Index	-	2 (Pass)
CD					1.7 (Pass)
Tensile Strength					**Extra heavy**
MD	6.12	AS 1301.448	KN/m	-	20.1
CD					15.7
Edge tear Resistance					**Extra heavy**
MD	6.13	AS 4200.1.1994	N	-	847
CD					610
Resistance to Water Vapour Transmission	6.2	ASTM E96 Procedure B (water method)	µg/NS	-	0.0125
Emissivity					**Reflective**
Silver face	6.3	AS/NZS 4201.5	Index	-	0.04
Blue antiglare face					0.1

Storage & Handling Information

THERMAWRAP 8 should be used for the purpose for which it is intended ie. as a Reflective Insulation and Vapour Barrier. After delivery it should be stored in a dry place, free from rain or the elements. The material is not designed to be left exposed to direct sunlight or the weather for an extended period of time. During the construction process, whilst quite durable the material should be covered by roof or wall cladding as soon as possible. Alkaline products such as wet concrete may cause damage to the material and contact with these products and this insulation, should be avoided.

Health & Safety

THERMAWRAP 8 is a safe and easy to use product provided you adhere to some basic safety considerations.

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