



***RHINO* RANGE**  
by THOR BUILDING PRODUCTS

Residential & Commercial Insulation  
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RHINO is a trusted brand in the building industry known for Quality Products, Service & Support.  
Proudly Owned & Manufactured in Australia for 15 years

**Thor Building Products Pty Ltd**

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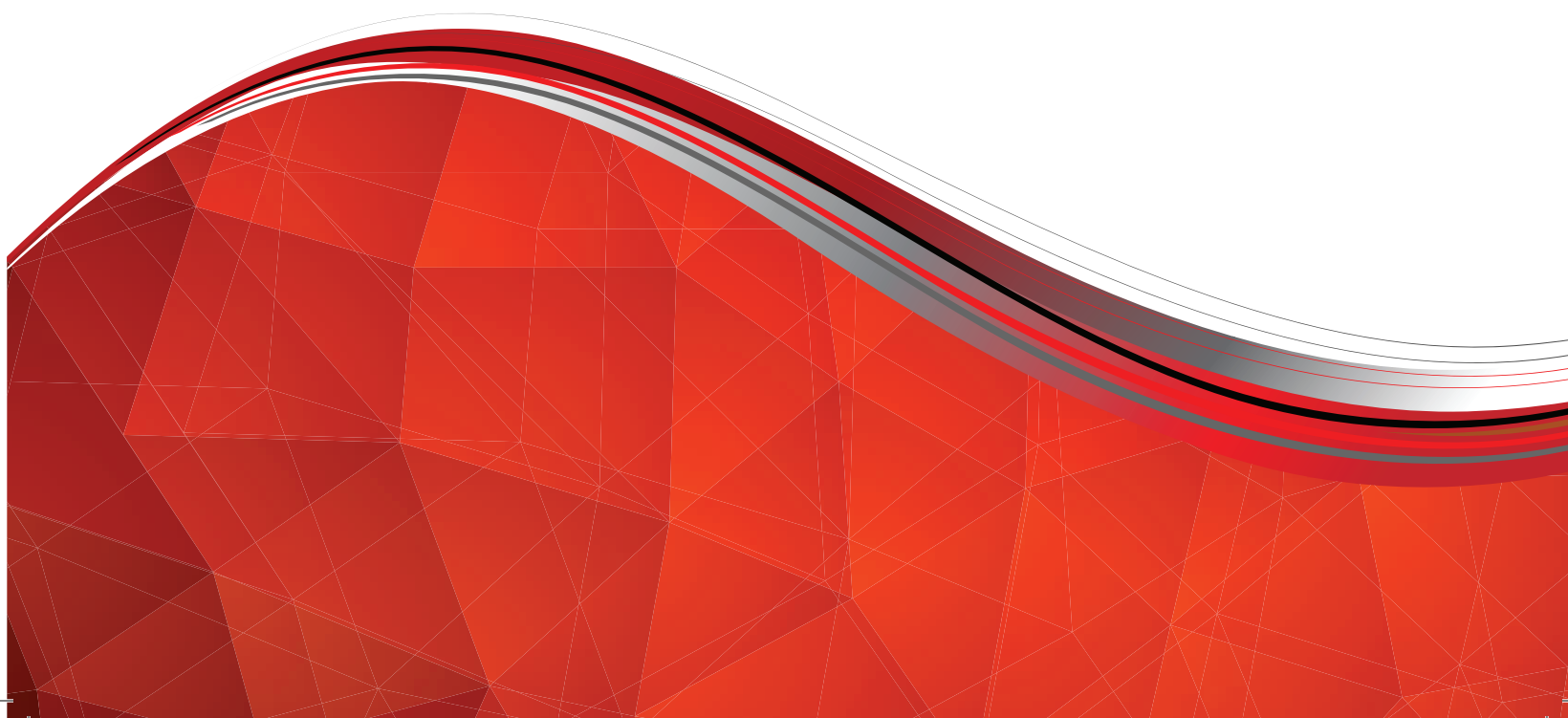
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Section 1 <b>GLASSWOOL</b> Rhino glasswool batt insulation range	
Section 2 <b>BLANKET</b> Rhino blanket range	
Section 3 <b>POLYESTER</b> Rhino white polyester batt range	
Section 4 <b>CELL</b> Rhino cell	
Section 5 <b>FOAM</b> Rhino foam range	
Section 6 <b>WRAP &amp; FOIL</b> Rhino wrap reflective foil range	
Section 7 <b>PIR BOARD</b> Rhino PIR board range	
Section 8 <b>PIPE LAGGING</b> Rhino pipe acoustic lagging	
Section 9 <b>ROCKWOOL</b> Other wall & surface insulation products	
Section 10 <b>ACCESSORIES</b>	

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# RHINO BATTS FOR THERMAL APPLICATIONS



## SPECIFICATION NOTES

When specifying state the following:

- Product name - **RHINO Batts**
- Material R-value required
- Joist or stud spacing
- Area involved.

## PRODUCT DESCRIPTION

**RHINO Batts** are made from lightweight, flexible and resilient glasswool, specially designed for the thermal insulation of ceilings and walls in domestic and commercial buildings. Designed to improve the energy efficiency of a home keeping homes cooler in summer and warmer in winter. **RHINO Batts** for Wall & Ceiling are available in a range of sizes and R-values to suit any application.

## PHYSICAL CHARACTERISTICS

The comprehensive range of sizes and R-values available ensures there is an efficient and effective **RHINO Batts** insulation solution available for any application. **RHINO Batts** insulation for wall applications are stiffened to fit snugly between standard spacing wall studs – both timber and steel – without sagging and should be installed at the time of construction before fixing internal lining.

Product Code	R-Value (m²k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m²)
Wall Batts					
RBatt-R1.5-430	1.5	65	1160 x 430	24	12
RBatt-R1.5-580			1160 x 580	24	16.2
RBatt-R2.0-430	2.0	90	1160 x 430	24	12
RBatt-R2.0-580			1160 x 580	24	16.2
RBatt-R2.0HD-430	2.0HD*	70	1160 x 430	12	6
RBatt-R2.0HD-580			1160 x 580	12	8.1
RBatt-R2.0-HD-600			1200 x 600	12	8.6
RBatt-R2.5-HD430	2.5HD*	90	1160 x 430	12	6
RBatt-R2.5-HD580			1160 x 580	12	8.1
RBatt-R2.5-HD-600			1200 x 600	12	8.6
RBatt-R2.7-HD430	2.7HD*	90	1160 x 430	6	3
RBatt-R2.7-HD580			1160 x 580	6	4
Ceiling Batts					
RBatt-R2.5-430	2.5	130	1160 x 430	16	8
RBatt-R2.5-580			1160 x 580	16	10.8
RBatt-R3.0-430	3.0	155	1160 x 430	16	8
RBatt-R3.0-580			1160 x 580	16	10.8
RBatt-R3.5-430	3.5	175	1160 x 430	16	8
RBatt-R3.5-580			1160 x 580	10	6.7
RBatt-R4.0-430	4.0	195	1160 x 430	10	5
RBatt-R4.0-580			1160 x 580	10	6.7
RBatt-R5.0-430	5.0	215	1160 x 430	8	4
RBatt-R5.0-580			1160 x 580	8	5.4
RBatt-R6.0-430	6.0	250	1160 x 430	6	3
RBatt-R6.0-580			1160 x 580	6	4

• (HD= High Density)

# RHINO BATTS

FOR THERMAL  
APPLICATIONS

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May 2017



# RHINO BATTS FOR THERMAL APPLICATIONS



## SPECIFICATION NOTES

When specifying state the following:

- Product name - **RHINO Batts**
- Material R-value required
- Joist or stud spacing
- Area involved.

## MOISTURE ABSORPTION

In the event of **RHINO Batts** becoming wet, the insulation must be dried prior to installation to obtain maximum performance and prevent damage to other building elements. **RHINO Batts** absorb less than 0.2% moisture by volume when exposed to environmental conditions of 50°C at 95% relative humidity for four days.

## ALKALINITY

When tested in accordance with British Standard 3958, **RHINO Batts** receive a rating of pH9 (pH7 is neutral). The insulation will not promote or accelerate the corrosion of steel or galvanised steel studs provided the insulation is protected from external contamination.

## MAXIMUM SERVICE TEMPERATURE

**RHINO Batts** have a maximum service temperature of 340°C.

# RHINO BATTS FOR THERMAL APPLICATIONS

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NON-COMBUSTIBLE



# RHINO PARTITION BATTS

## COMMERCIAL ACOUSTIC & THERMAL INSULATION



### SPECIFICATION NOTES

When specifying state the following:

- Product name i.e. **RHINO Partition Batts** followed by the relevant density i.e. RHINO Partition 11, 14, 24 or 32.
- Material R-value required and/or thickness required.
- Joist or stud spacing.
- Area involved.

### PRODUCT DESCRIPTION

**RHINO Partition Batts** are made from lightweight, glasswool material specially designed to be freestanding for quick installation in steel stud framing for multi-residential and commercial steel frame buildings. All products are designed to give assurance of effective sound absorption and to reduce noise transfer between rooms. Whilst effectively providing solutions to 'problem' acoustic applications, **RHINO Partition Batts** also provide a range of thermal values making the products suitable for insulating the external walls of a building external walls there by increasing the comfort levels of a buildings occupants.

### PHYSICAL CHARACTERISTICS

**RHINO Partition Batts** features a soft feel for more comfortable handling.

Product code	Material R-value (m <sup>2</sup> k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m <sup>2</sup> )
RHINO Partition 11 Insulation					
RPBatt-50-11-1245	1.2	50	1200 x 450	32	17.28
RPBatt-50-11-2745			2700 x 450	24	29.16
RPBatt-50-11-1260			1200 x 600	32	23.04
RPBatt-50-11-2760			2700 x 600	16	25.92
RPBatt-75-11-1245	1.8	75	1200 x 450	16	8.64
RPBatt-75-11-2745			2700 x 450	24	29.16
RPBatt-75-11-1260			1200 x 600	16	11.52
RPBatt-75-11-2760			2700 x 600	16	25.92
RPBatt-90-11-1245	2.1	90	1200 x 450	16	8.64
RPBatt-90-11-2745			2700 x 450	24	29.16
RPBatt-90-11-1260			1200 x 600	16	11.52
RPBatt-90-11-2760			2700 x 600	16	25.92
RPBatt-110-11-1245	2.5	110	1200 x 450	16	8.64
RPBatt-110-11-1260			1200 x 600	16	11.52
RPBatt-110-11-2760			2700 x 600	10	16.2
RPBatt-165-11-1260	3.5	165	1200 x 600	10	7.2
RHINO Partition 14 Insulation					
RPBatt-50-14-1245	R1.3	50	1200 x 450	24	12.96
RPBatt-50-14-2745			2700 x 450	24	29.16
RPBatt-50-14-1260			1200 x 600	24	17.28
RPBatt-50-14-2760			2700 x 600	16	25.92
RPBatt-75-14-1245	R1.9	75	1200 x 450	16	8.64
RPBatt-75-14-2745			2700 x 450	18	21.87
RPBatt-75-14-1260			1200 x 600	16	11.52
RPBatt-75-14-2760			2700 x 600	12	19.44
RPBatt-90-14-1245	R2.2	90	1200 x 450	14	7.56
RPBatt-90-14-2745			2700 x 450	15	18.23
RPBatt-90-14-1260			1200 x 600	14	10.08
RPBatt-90-14-2760			2700 x 600	10	16.2

Note: 2700mm lengths are supplied as rolls

# RHINO

## PARTITION

# BATTS

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# RHINO PARTITION BATTS

## COMMERCIAL ACOUSTIC & THERMAL INSULATION



### SPECIFICATION NOTES

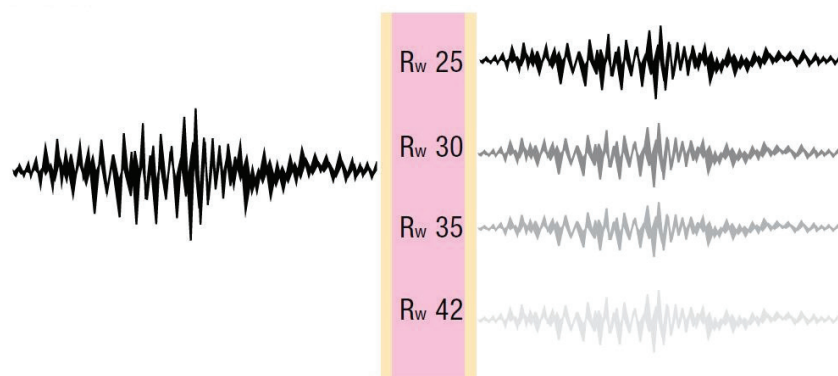
When specifying state the following:

- Product name i.e. **RHINO Partition Batts** followed by the relevant density i.e. RHINO Partition 11, 14, 24 or 32.
- Material R-value required and/or thickness required.
- Joist or stud spacing.
- Area involved.

Product code	Material R-value (m²k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m²)
RHINO Partition 24 Insulation					
RPBatt-25-24-2760	R0.7	25	2700 x 600	20	32.40
RPBatt-38-24-2760	R1.1	38	2700 x 600	12	19.44
RPBatt-50-24-1245	R1.4	50	1200 x 450	12	6.48
RPBatt-50-24-1260			1200 x 600	12	8.64
RPBatt-50-24-2760			2700 x 600	12	19.44
RPBatt-64-24-2760	R1.8	64	2700 x 600	10	16.20
RPBatt-75-24-1245	R2.1	75	1200 x 450	10	5.40
RPBatt-75-24-1260			1200 x 600	10	7.20
RPBatt-90-24-1245	R2.5	90	1200 x 450	8	4.32
RPBatt-90-24-1260			1200 x 600	8	5.76
RPBatt-100-24-1245	R2.8	100	1200 x 450	6	3.24
RPBatt-100-24-1260			1200 x 600	6	4.32
RHINO Partition 32 Insulation					
RPBatt-50-32-1245	R1.5	50	1200 x 450	12	6.48
RPBatt-50-32-1260			1200 x 600	12	8.64
RPBatt-75-32-1245	R2.2	75	1200 x 450	10	5.40
RPBatt-75-32-1260			1200 x 600	10	7.20
RPBatt-90-32-1245	R2.7	90	1200 x 450	8	4.32
RPBatt-90-32-1260			1200 x 600	8	5.76
RPBatt-100-32-1245	R3.0	100	1200 x 450	6	3.24
RPBatt-100-32-1260			1200 x 600	6	4.32

Note: 2700mm lengths are supplied as rolls

### ACOUSTIC PERFORMANCE PREDICTIONS



The National Construction Code (NCC) has adopted the Weighted Sound Reduction Index (Rw) as a measure of the sound isolating properties of building elements. A wall system with a higher Rw rating isolates sound better than a wall system with a lower Rw rating.

Typically an internal wall on 92mm steel studs containing 13mm standard plasterboard on either side will achieve Rw 35. Incorporating 75mm **RHINO Partition Batts** within the stud cavity will typically enhance the performance of this system to Rw 43. That is an increase of 8 points in Rw rating - a significant increase in perceived sound isolating performance.

# RHINO

## PARTITION

# BATTS

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# RHINO PARTITION BATTS

## COMMERCIAL ACOUSTIC & THERMAL INSULATION



### SPECIFICATION NOTES

When specifying state the following:

- Product name i.e. **RHINO Partition Batts** followed by the relevant density i.e. RHINO Partition 11, 14, 24 or 32.
- Material R-value required and/or thickness required.
- Joist or stud spacing.
- Area involved.

To put this into context further, consider the following:

- At Rw 25, normal speech can be heard easily
- At Rw 30, loud speech can be heard easily
- At Rw 35, loud speech can be heard but not understood
- At Rw 42, loud speech can be heard only as a murmur

Source: USG Boral Systems+ April 2015.

For further information relating to the acoustic performance of **RHINO Partition Batts** in various building applications, contact Thor Building Products Technical Support Team on 1300 880 828.

### MOISTURE ABSORPTION

In the event of **RHINO Partition Batts** becoming wet, the insulation must be dried prior to installation to obtain maximise performance and prevent damage to other building elements. **RHINO Partition Batts** absorb less than 0.2% moisture by volume when exposed to environmental conditions of 50°C at 95% relative humidity for four days.

### ALKALINITY

When tested in accordance with British Standard 3958, **RHINO Partition Batts** receive a rating of pH9 (pH7 is neutral). The insulation will not promote or accelerate the corrosion of steel or galvanised steel studs provided the insulation is protected from external contamination.

### MAXIMUM SERVICE TEMPERATURE

**RHINO Partition Batts** have a maximum service temperature of 340°C.

# RHINO PARTITION BATTS

## THE ULTIMATE PROTECTION

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NON-COMBUSTIBLE





# RHINO SOUND BATT High Performance Acoustic Insulation



## SPECIFICATION NOTES

When specifying state the following:

- Product name i.e. **RHINO Sound Batts**
- Material R-value required.
- Joist or stud spacing.
- Area involved.

## PRODUCT DESCRIPTION

**RHINO SOUND BATT** is specially designed to provide exceptional acoustic performance in residential buildings. The high-density composition of **RHINO SOUND BATT** makes it the ideal solution for reducing sound transfer through walls, ceilings and between floors.

Installing **RHINO SOUND BATT** in external walls and ceiling spaces limits the transfer of external nuisance noise into a home. Additionally, installation of **RHINO SOUND BATT** in internal wall cavities and between floors will reduce sound transfer between rooms and through floors thus creating quieter living spaces.

With normal density range of 24 - 26kg/m<sup>3</sup>, **RHINO SOUND BATT** provide the added benefit of remarkable thermal performance; this improves the energy efficiency of a home which in turn provides energy cost savings. Additionally, the products composition is the ideal method of achieving higher R-values with limited cavity allowance.

***RHINO Sound Batt** features a Next Generation formula that provides a softer more comfortable handling.*

## PHYSICAL CHARACTERISTICS

Product Code	R-Value (m <sup>2</sup> k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m <sup>2</sup> )
RSBatt-R1.7-60-1143	R1.7	60	1160 x 430	12	6.0
RSBatt-R1.7-60-1158			1160 x 580	12	8.1
RSBatt-R2.0-70-1143	R2.0	70	1160 x 430	10	5.0
RSBatt-R2.0-70-1158			1160 x 580	10	6.7
RSBatt-R2.0-70-1260			1200 x 600	10	7.2
RSBatt-R2.5-90-1143	R2.5	90	1160 x 430	8	4.0
RSBatt-R2.5-90-1158			1160 x 580	8	5.4
RSBatt-R2.7-90-1143	R2.7	90	1160 x 430	8	4.0
RSBatt-R2.7-90-1158			1160 x 580	8	5.4
RSBatt-R2.7-90-1260			1200 x 600	8	5.8
RSBatt-R3.1-110-1143	R3.1	110	1160 x 430	6	3.0
RSBatt-R3.1-110-1158			1160 x 580	6	4.0

## ACOUSTIC PERFORMANCE

The National Construction Code (NCC) has adopted the Weighted Sound Reduction Index (R<sub>w</sub>) as a measure of the sound isolating properties of building elements. A wall system with a higher R<sub>w</sub> rating isolates sound better than a wall system with a lower R<sub>w</sub> rating. An increase of 10 points in an R<sub>w</sub> rating indicates a doubling in perceived sound isolating performance.

Typically an internal wall on 90mm timber studs containing 13mm standard plasterboard on either side will achieve R<sub>w</sub> 32.

Adding **RHINO SOUND BATT** in this wall would typically enhance this wall system to R<sub>w</sub> 42. That is an increase of 10 points in R<sub>w</sub> rating - a doubling in perceived sound isolating performance.

To further put this into context, consider the following:

- At R<sub>w</sub> 25 normal speech can be heard easily
- At R<sub>w</sub> 30 loud speech can be heard easily
- At R<sub>w</sub> 35 loud speech can be heard but not understood
- At R<sub>w</sub> 42 loud speech can be heard only as a murmur

Source: USG Boral Systems+ April 2015.

For further information relating to the acoustic performance of **RHINO SOUND BATT** in various building applications, contact Thor Building Products Technical Services on 1300 880 828.

# RHINO SOUND BATT

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# RHINO SOUND BATT High Performance Acoustic Insulation



## SPECIFICATION NOTES

When specifying state the following:

- Product name i.e. **RHINO Sound Batts**
- Material R-value required.
- Joist or stud spacing.
- Area involved.

## MOISTURE ABSORPTION

In the event of **RHINO Sound Batt** becoming wet, it should be dried prior to installation to obtain maximum performance and prevent damage to other building elements. **RHINO Sound Batt\*** absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

## ALKALINITY

When tested in accordance with British Standard 3958, Thor Building Products glasswool products are slightly alkaline pH9 (neutral is pH7). They will not promote or accelerate the corrosion of steel or galvanised steel studs provided they are protected from external contamination.

## MAXIMUM SERVICE TEMPERATURE

**RHINO Sound Batt\*** has a maximum service temperature of 340°C.

\* Note - **RHINO Sound Batt** performance testing undertaken to meet the manufacturers specification (Fletcher Insulation)

# RHINO SOUND BATT

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NON-COMBUSTIBLE



# RHINO BLANKET



- ✓ Excellent thermal & acoustic insulation.
- ✓ Can be used with timber & metal frame.
- ✓ Superior finished aesthetics.
- ✓ Cost-effective.
- ✓ Non-combustible blanket fibres.
- ✓ TRADE preferred
- ✓ Highly resilient insulation
- ✓ Consistent quality
- ✓ AS/NZS 4859.1:2002
- ✓ Bio-soluble
- ✓ BCA Compliant
- ✓ low VOC-emitting



## THERMAL INSULATION WITH CONDENSATION CONTROL

Rhino Blanket combines the thermal efficiency of spun glass fibre with a laminate of reflective foil which not only further enhances the thermal efficiency of the system but also serves to act as a dust and moisture barrier.

**DESCRIPTION** - Rhino Blanket is intended for both thermal and acoustic applications. It is made from highly resilient, inorganic glass fibres.

**SPECIFICATION COMPLIANCE** - AS/NZS 4859.1: 2002 Materials used in the Thermal Insulation of Buildings and complies with the Building Code of Australia (BCA) requirements.

**EARLY FIRE HAZARD PROPERTIES OF MATERIALS** - Rhino Blanket achieves the following characteristics when tested in accordance with AS1530 Part 3

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	1

**BIO-SOLUBILITY** - Rhino Blanket rolls are manufactured from bio-soluble fibres. Bio-soluble fibres have been extensively researched and shown to pose no long term health risk.

### FIRE PERFORMANCE - Bushfire Attack Level

Rhino Blanket is suitable for BAL 0-40 as outlined in AS 3959 for metal roofs. The glasswool component of Rhino Blanket is classified as non-combustible in accordance with AS1530.1 and is suited for sealing ember entry points at ridges, valleys and fascias to meet NCC requirements for metal clad roofs in bushfire areas. The reflective foil facing component satisfies the NCC flammability index requirement of  $\leq 5$ .

### GREEN STAR COMPLIANT

Rhino Blanket does not incorporate the use of Ozone Depleting Potential (ODP) substances in the manufactured or composition of it FBS-1 Glass Wool Bio-Soluble Insulation and the reflective foil products.

The use of these Rhino Blanket products guarantees the use of ODP free insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released.

This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

### MOISTURE ABSORPTION

In the event of Rhino Blanket becoming wet, it should be dried prior to installation to obtain maximum performance and prevent damage to other building elements. Rhino Blanket absorbs less than 0.2 % moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

### ALKALINITY

When tested in accordance with British Standard 3958, the glasswool element of Rhino Blanket received a rating of pH9 (neutral is pH7).

### MAXIMUM SERVICE TEMPERATURE

Rhino Blanket is manufactured for use at temperatures that are normally experienced in building systems. Rhino Blanket maximum and minimum service temperatures range from sub-zero to a maximum of 340°C. The surface temperature of Rhino Blanket faced with reflective foil should not exceed 70°C.

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# RHINO BLANKET



## SPECIFICATION NOTES

Product name – Rhino Blanket

Facing required – e.g. Heavy Duty Reflective / White / Acoustic Cloth

Material R-value required

Note: The total R-value or thermal performance of building systems with reflective foils depends on the installation method used and the direction of heat flow.

**APPLICATION** - Designed for application under metal, fibre cement, and concrete roof cladding Rhino Blanket eliminates the problems associated with condensation build up on the underside of the roof cladding. The reflective foil face faces down toward the air space under the roof and prevents airborne moisture from reaching the surface of the roof cladding.

Rhino Blanket also performs as an acoustic insulative barrier. It reduces noise from outside the home, such as rain and from within the home by absorbing reverberant noise. Rhino Blanket's bulk insulation blanket is made from non-combustible fibres and meets the BAL requirement for metal clad roofs in bushfire areas.

**FACING OPTIONS** - The Duty Rating, Colour and Material Finish used to face Rhino Blanket can be varied to suit your application. Details upon request. Excellent thermal & acoustic insulation.

## PHYSICAL CHARACTERISTICS

### FOIL FACED

Product Code	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions* (mm)	Rolls/pack	m <sup>2</sup> /pack
RB-R1.3-55	55	1.3	1200 x 15000	1	18
RB-R1.5-60	60	1.5	1200 x 15000	1	18
RB-R1.8-75	75	1.8	1200 x 15000	1	18
RB-R2.3-100	100	2.3	1200 x 10000	1	12
RB-R2.5-100	100	2.5	1200 x 10000	1	12
RB-R3.0-130	130	3.0	1200 x 10000	1	12
RB-R3.2-130	130	3.2	1200 x 10000	1	12
RB-R3.6-130	130	3.6	1200 x 6500	1	7.8

### UNFACED

Product Code	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions* (mm)	Rolls/pack	m <sup>2</sup> /pack
URB-R1.3-36	55	1.3	1200 x 30000	1	36
URB-R1.5-36	60	1.5	1200 x 30000	1	36
URB-R1.8-30	75	1.8	1200 x 25000	1	30
URB-R2.3-18	100	2.3	1200 x 15000	1	18
URB-R2.5-18	100	2.5	1200 x 15000	1	18
URB-R3.0-12	130	3.0	1200 x 10000	1	12
URB-R3.2-12	130	3.2	1200 x 10000	1	12
URB-R3.6-78	130	3.6	1200 x 6500	1	7.8

\* Cut to size available on request

# RHINO BLANKET

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# RHINO BLANKET FACING



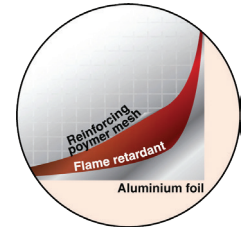
## PRODUCT INFORMATION

Thor's Blanket Facing is made with a high strength polywoven fabric facing which is applied to a glasswool blanket whilst other products commonly use a double sided foil with fibre mesh for the facing.

The polywoven fabric provides the additional benefits of:

- ✓ Outstanding tensile and tear strength.
- ✓ Unrolls more easily right the way to the end of the roll.
- ✓ An excellent visible surface finish.

- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 ≤ 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



## APPLICATION

Designed for application under metal, fibre cement, and concrete roof cladding Thor's Blanket Facing eliminates the problems associated with condensation build up on the underside of the roof cladding. The reflective foil face faces down toward the air space under the roof and prevents airborne moisture from reaching the surface of the roof cladding.

**NOTE** - Use in cold temperature climates (daytime <50°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

**FACING OPTIONS** - The Duty Rating, Colour and Material Finish of the blanket facing can be varied to suit your application.

	Gloss White	Gloss Silver-Grey	Black Fabric
Duty	Extra Heavy	Heavy	Extra Light
Width (mm)	1350	1350	1350 nom.
Residential Insulation	✓	✓	-
Commercial Insulation	✓	✓	✓
Vapour barrier	High	High	Unclassified
Emittance	Reflective	Reflective	Non-Reflective
Water barrier	High	High	Unclassified
Flammability Index	Low (≤5)	Low (≤5)	Low (≤5)
UV treated non reflective face (not direct sunlight)	✓	-	-
Tensile Strength Machine Direction (kN/m)	min 13.0	min 12.5	min 6
Tensile Strength Lateral Direction (kN/m)	min 10.5	min 7.5	min 3.5
Edge Tear Resistance Machine Direction (N)	min 90	min 80	min 70
Edge Tear Resistance Lateral Directions (N)	min 90	min 80	min 70
Water Vapour Transmission Rate (Ng/Ns)	max 2	max 2	Unclassified
Emittance of Reflective Face	max 0.05	max 0.05	N/A

- Gloss White** for showrooms and retail spaces - no direct sunlight
- Gloss Silver-Grey** for customary reflective faced blanket
- Black Fabric** for acoustic absorption application

# RHINO BLANKET FACING

## THE ULTIMATE PROTECTION

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May 2017

# RHINO CERAMIC COAT FACING (EXTRA HEAVY DUTY)



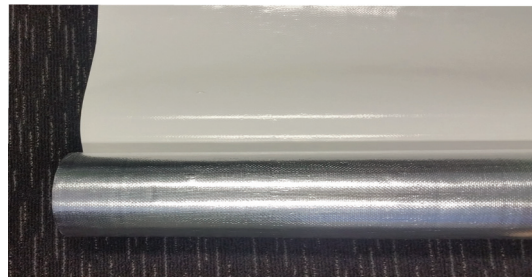
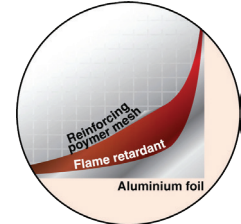
## PRODUCT INFORMATION

Thor's Ceramic Coat facing is made with a high strength polywoven fabric facing which is adhered to a layer of reflective aluminium foil and coated on one or both sides with a ceramic coating.

The polywoven fabric provides the additional benefits of:

- ✓ Outstanding tensile and tear strength.
- ✓ Unrolls more easily right the way to the end of the roll.
- ✓ An excellent visible surface finish.

- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2  $\leq 5$
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



## APPLICATION

Designed for application under metal, fibre cement, and concrete roof cladding Thor's Ceramic Coat Facing eliminates the problems associated with condensation build up on the underside of the roof cladding. Especially suited to environments with exposure to UV, oxidising agents or pool chemicals.

**NOTE** - Use in cold temperature climates (daytime  $< 5^{\circ}\text{C}$ ) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

**FACING OPTIONS** - The Ceramic coating side of the facing can be varied to suit your application, with the coating applied to one or both sides.

Colour	Ceramic Coat on White (GCW)	Ceramic Coat on Aluminium (GCA)	Ceramic Coat on both sides (GC2)
Duty	Extra Heavy	Extra Heavy	Extra Heavy
Width	1350	1350	1350
Residential & Commercial Insulation	✓	✓	✓
Vapour barrier	High	High	High
Emittance	Reflective	Reflective	Reflective
Water barrier	High	High	High
Flammability Index	Low ( $\leq 5$ )	Low ( $\leq 5$ )	Low ( $\leq 5$ )
UV protection on ceramic face	✓	✓	✓
Tensile Strength Machine Direction (kN/m)	min 13.0	min 13.0	min 13.0
Tensile Strength Lateral Direction (kN/m)	min 10.5	min 10.5	min 10.5
Edge Tear Resistance Machine Direction (N)	min 90	min 90	min 90
Edge Tear Resistance Lateral Directions (N)	min 90	min 90	min 90
Water Vapour Transmission Rate (Ng/Ns)	max 2	max 2	max 2
Emittance of Reflective Face	max 0.05	max 0.05	max 0.05
<b>Applicable to the coated side</b>			
UV & Weathering (3000hr QUV exposure)	Excellent, no change in performance or appearance	Excellent, no change in performance or appearance	Excellent, no change in performance or appearance
Salt Resistance (Internal Test)	No visible change in appearance	No visible change in appearance	No visible change in appearance
Resistance to Fungi (ASTM G21)	Zero growth	Zero growth	Zero growth
Ozone Resistance	Excellent	Excellent	Excellent
Operating Temperature	-80°C to 100°C	-80°C to 100°C	-80°C to 100°C

# RHINO CERAMIC COAT FACING

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March 2017

## BENEFITS OF CERAMIC COATINGS

- ✓ Product is non-flammable when coated on both sides
- ✓ Coated side has 10 year guarantee against solar UV
- ✓ Aluminium faced will not oxidise once ceramic coated



# RHINO WHITE WALL & CEILING BATTS for thermal applications



## PRODUCT DESCRIPTION

Our **RHINO White Wall & Ceiling Batts** are 100% polyester thermal insulation segments pre-cut to fit common timber framed walls, ceilings and mid-floor joist spacings.

## APPLICATIONS

**RHINO White Wall & Ceiling Batts** are designed for the thermal insulation of residential and commercial buildings. **RHINO White Wall & Ceiling Batts** can be used in ceilings, internal and external walls and mid-floor cavities. To ensure Building Code compliance Thor Building Products recommends that Architects and building designers consult the relevant Australian Standards before specifying thermal insulation products.

## BUILDING REGULATIONS

**RHINO White Wall & Ceiling Batts** will support and assist in meeting the following provisions of the BCA: BCA Volume One- Class 2-9 Buildings, Section J- Energy Efficiency: Performance requirement JP1 BCA Volume One - Class 2-3 and 9c Buildings Section F - Health and Amenity: Sound Transmission and Insulation. Performance requirement FP5.1, FP5.2, FP5.4 and FP 5.5. BCA Volume Two - Class 1 and Class 10 Buildings Part 2.6 -Energy Efficiency: Performance requirement P2.6.1 Part 3.8.6- Health and Amenity, Sound Insulation: Performance requirements P2.4.6

## PHYSICAL CHARACTERISTICS

Acoustic Performance: **RHINO White Wall & Ceiling Batts** will assist sound reduction by reducing the resonating noise inside the construction cavity. Typical improvement in sound transmission loss through walls with the use of R2.0 Wall insulation is an increase of 5-6 Rw points. For information and assistance on Thermal and Acoustic design please contact your Representative.

Product Code	R-Value (m²K/W)	Thickness (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m²)
Wall Batts					
WRBatt-R1.5-430	1.5	90.0	1160 x 430	16	7.98
WRBatt-R1.5-580			1160 x 580	16	10.76
WRBatt-R2.0-430	2.0	90.0	1160 x 430	12	5.99
WRBatt-R2.0-580			1160 x 580	12	8.07
WRBatt-R2.5-430	2.5	90.0	1160 x 430	6	2.99
WRBatt-R2.5-580			1160 x 580	6	4.04
Ceiling Batts					
WRBatt-R2.0-430	2.0	120	1160 x 430	12	5.99
WRBatt-R2.0-580			1160 x 580	12	8.07
WRBatt-R2.5-430	2.5	165	1160 x 430	8	3.99
WRBatt-R2.5-580			1160 x 580	8	5.38
WRBatt-R3.0-430	3.0	185	1160 x 430	8	3.99
WRBatt-R3.0-580			1160 x 580	8	5.38
WRBatt-R3.5-430	3.5	200	1160 x 430	6	2.99
WRBatt-R3.5-580			1160 x 580	6	4.04
WRBatt-R4.0-430	4.0	210	1160 x 430	4	2.00
WRBatt-R4.0-580			1160 x 580	4	2.69
WRBatt-R4.5-430	4.5	210	1160 x 430	4	2.00
WRBatt-R4.5-580			1160 x 580	4	2.69

## VOC EMISSION SAFE

- ✓ VOC concentration: 0.01 mg/m<sup>3</sup> (7 days)
- ✓ GECA/GreenGuard Limit: 0.25 mg/m<sup>3</sup> (7 days)
- ✓ Cetec Pty Ltd (Report:RCV080408)

# RHINO WHITE WALL & CEILING BATTS

## THE ULTIMATE PROTECTION

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May 2017

# RHINO WHITE WALL & CEILING BATTS for thermal applications



## Durability

**RHINO White Wall & Ceiling Batts** have a 50 Year Durability Warranty. **RHINO White Wall & Ceiling Batts** when installed in accordance with the manufacturers instructions will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

## Moisture

**RHINO White Wall & Ceiling Batts** are not affected by moisture. Exposure to an atmosphere of 50oC at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

## Installation

Thor Building Products recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included on each **RHINO White Wall & Ceiling Batts**) and AS 3999:1992 Thermal Insulation of Dwellings - Bulk insulation, installation requirements.

## Take Back Programme

**RHINO White Wall & Ceiling Batts** are recyclable. We will gladly recycle used, uncontaminated RHINO® insulation to help keep it out of landfill. For more information on recycling THOR BUILDING PRODUCTS® contact on 1300 880 828.

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# RHINO WHITE WALL & CEILING BATTS

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## THE ULTIMATE PROTECTION

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May 2017

# RHINO WHITE SOUND BATTS & ROLLS for acoustic applications



## PRODUCT DESCRIPTION

**RHINO White Sound Batts & Rolls** is a 100% polyester acoustic insulation material designed for timber framed residential and light commercial applications. Supplied in batts and rolls pre-cut to fit standard timber framed walls and mid-floor joist spacings.

## APPLICATIONS

**RHINO White Sound Batts & Rolls** is ideally suited for use in timber framed walls and mid-floor cavities for reducing airborne sound transfer. **RHINO White Sound Batts & Rolls** reduces resonating noise in the construction cavity thereby reducing the sound energy transferred from one side to the other. Further improvements can be achieved by using acoustically rated plasterboard, multiple layers of plasterboard, or by isolating the plasterboard from the stud. The Building Code of Australia (BCA) sets out minimum performance ratings for inter-tenancy walls and floor-ceiling construction. The performance of a construction system relies on the design, materials and installation. Acoustic design for BCA compliance requires specialist design considerations. For information and assistance please contact your THOR BUILDING PRODUCTS Representative.

## PERFORMANCE

Building Regulations: **RHINO White Sound Batts & Rolls** will support and assist in meeting the following provisions of the BCA: BCA Volume One - Class 2-9 Buildings, Section J - Energy Efficiency: Performance requirement JP1 BCA Volume One - Class 2-3 and 9c Buildings, Section F - Health and Amenity: Sound Transmission and INSulation. Performance requirement FP5.1, FP5.2, FP5.4 and FP 5.5. BCA Volume Two - Class 1 and Class 10 Buildings, Part 2.6 - Energy Efficiency: Performance requirement P2.6.1 Part 3.8.6 - Health and Amenity, Sound Insulation: Performance requirements P2.4.6

**Acoustic Performance** -  $R_w$  is the industry accepted means of determining a material or assembly's ability to resist airborne sound transfer. A higher  $R_w$  rating blocks more noise from transmitting through a construction system. **RHINO White Sound Batts & Rolls** will assist in reducing the resonating noise inside the construction cavity. Typical improvement in sound transmission loss through walls with the use of **RHINO White Sound Batts & Rolls** is an increase of 5-8  $R_w$  points, effectively reducing loud voices to a slight murmur. Typical improvement in sound transmission loss through a common residential mid-floor construction with the use of **RHINO White Sound Batts & Rolls** is an increase of 5-7  $R_w$  points.

**Thermal Performance** - **RHINO White Sound Batts & Rolls** complies with the requirements as set out in AS/NZS4859.1 standard for insulation. For increased thermal performance options, Thor Building Products recommends the use of the **RHINO White Sound Batts & Rolls** range.

## TECHNICAL

**Durability**: **RHINO White Sound Batts & Rolls** has a 50 Year Durability Warranty. **RHINO White Sound Batts & Rolls** when installed in accordance with the manufacturer's instructions will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

## PHYSICAL CHARACTERISTICS

Product Code	R-Value (m <sup>2</sup> k/w)	Thickness (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m <sup>2</sup> )
Sound Batts					
WRSBatt-R1.5-430	1.5	75	1160 x 430	8	3.99
WRSBatt-R1.5-580			1160 x 580	8	5.38
WRSBatt-R2.0-430	2.0	90	1160 x 430	8	3.99
WRSBatt-R2.0-580			1160 x 580	8	5.38
WRSBatt-R2.5-430	2.5	100	1160 x 430	8	3.99
WRSBatt-R2.5-580			1160 x 580	8	5.38
Sound Rolls					
WRSRoll-R2.5-430	2.5	100	1160 x 430	3	14.96
WRSRoll-R2.5-580			1160 x 580	2	13.46

# RHINO WHITE SOUND BATTS & ROLLS

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May 2017

# RHINO WHITE SOUND BATTS & ROLLS for acoustic applications



## Moisture

**RHINO White Sound Batts & Rolls** is not affected by moisture. Exposure to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

## VOC Emission Safe

**VOC Concentration** - 0.01mg/m<sup>3</sup> (7 days)

**GECA/Green Guard Limit** - 0.25mg/m<sup>3</sup> (7 days)

**Non Corrosive** - pH7.8 (pH7 is neutral)

**Non Toxic, Non Allergenic, Non Irritant** - There are no known hazards with the use or handling of RHINO INSULATION polyester.

**Vermin** - Naturally resistant to insect and vermin attack.

## Installation

Thor Building Products Pty Ltd recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included on each RHINO pack) and AS 3999:1992 Thermal Insulation of Dwellings - Bulk Insulation, installation requirements.

## Take Back Programme

Thor will take back to recycle, uncontaminated **RHINO White Sound Batts & Rolls** to help keep it out of landfill. For more information on recycling **RHINO White Sound Batts & Rolls** contact Thor on 1300 880 828.

# RHINO WHITE SOUND BATTS & ROLLS

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May 2017

# RHINO WHITE

## PARTITION & ACOUSTIC BLANKETS

acoustic blanket, commercial partition & high performance infill



### PRODUCT DESCRIPTION

**RHINO Partition Blanket** is a range of 100% polyester acoustic insulation products designed to improve the acoustic performance of partition walls and ceiling systems. Pre-cut to fit standard metal stud partitions set at 450 and 600mm centres.

### APPLICATIONS

**RHINO WHITE Partition & Acoustic Blankets** can be used in metal and timber stud partition walls and as an acoustic ceiling overlay for reducing airborne sound transfer. The use of RHINO Partition Blankets reduce resonating noise in the construction cavity there by increasing the sound transmission loss of the construction system. The Building Code of Australia (BCA) sets out minimum performance ratings for inter-tenancy walls and floor-ceiling construction. Acoustic design for code compliance requires specialist design considerations. For information and assistance please contact your THOR Representative.

### PHYSICAL CHARACTERISTICS

**RHINO WHITE Sound Blanket** is an acoustic insulation ideally suited as a partition infill for interior and commercial fit out applications to improve acoustic separation between adjoining spaces. Being 100% polyester it's completely safe to the installer and building occupiers. Supplied in roll form to allow fast and efficient use and minimise waste. **RHINO WHITE Sound Blanket** is available in a range of thickness's to suit the required stud depth and performance rating.

Product Code	Thickness (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m <sup>2</sup> )
WRABlanket-50-610	50	610 x 16500	2	20.13
WRABlanket-50-450		450 x 16500	3	22.28
WRABlanket-60-610	60	610 x 16500	2	20.13
WRABlanket-60-450		450 x 16500	3	22.28
WRABlanket-70-610	70	610 x 16500	2	20.13
WRABlanket-70-450		450 x 16500	3	22.28
WRABlanket-80-610	80	610 x 16500	2	20.13
WRABlanket-80-450		450 x 16500	3	22.28
WRABlanket-90-610	90	610 x 12000	2	14.64
WRABlanket-90-450		450 x 12000	3	16.20

### RHINO WHITE COMMERCIAL PARTITION BLANKET

**RHINO WHITE COMMERCIAL PARTITION BLANKET** is an acoustic infill insulation designed to meet the standard industry weight based requirements of many common referenced RW rated partition wall and ceiling systems. **RHINO WHITE COMMERCIAL PARTITION BLANKET** is supplied standard in either 11 or 14kgm<sup>3</sup> and ranged in thickness's to suit the specified stud depth and acoustic rating. To ensure optimal performance it is recommended to match the product thickness as closely as possible to the stud depth. **RHINO WHITE COMMERCIAL PARTITION BLANKET** is supplied in roll form to allow fast and efficient installation of the product helping minimise material and labour costs. Being 100% polyester it is non toxic and completely safe for the installer and building occupiers.

Product Code	Thickness (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m²)
Rhino White Partition 11 Insulation				
WRPBlanket-50-610-11	50	610 x 15000	2	18.30
WRPBlanket-50-450-11		450 x 15000	3	20.25
WRPBlanket-60-610-11	75	610 x 15000	2	18.30
WRPBlanket-60-450-11		405 x 15000	3	20.25
Rhino White Partition 14 Insulation				
WRPBlanket-70-610-14	50	610 x 15000	2	18.30
WRPBlanket-70-450-14		405 x 15000	3	20.25
WRPBlanket-80-610-14	75	610 x 15000	2	18.30
WRPBlanket-80-450-14		405 x 15000	3	20.25
WRPBlanket-90-610-14	90	610 x 12000	2	14.65
WRPBlanket-90-450-14		450 x 12000	3	16.20

# RHINO WHITE

## PARTITION & ACOUSTIC BLANKETS

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May 2017

# RHINO WHITE

## PARTITION & ACOUSTIC BLANKETS

acoustic blanket, commercial partition & high performance infill



### RHINO WHITE HIGH PERFORMANCE INFILL

**RHINO WHITE PERFORMANCE INFILL** is a range of acoustic insulation specifically engineered to maximise the acoustic performance of partition wall and ceiling systems. **RHINO WHITE PERFORMANCE INFILL** improves the acoustic separation by reducing noise intrusion and increasing sound privacy between spaces. HPI should be used where optimal acoustic performance is required. Manufactured from 100% polyester **RHINO WHITE PERFORMANCE INFILL** is completely safe for installer and building occupiers and has no known health hazards.

Product Code	Thickness (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m <sup>2</sup> )
WRHInfill-60-610	60	610 x 8200	2	10.00
WRHInfill-60-450		450 x 8200	3	11.07
WRHInfill-90-610	90	610 x 8200	2	10.00
WRHInfill-90-450		450 x 8200	3	11.07
WRHInfill-165-610	165	610 x 6000	2	7.32
WRHInfill-165-450		450 x 6000	3	8.10

### ON-SITE INFORMATION

**RHINO WHITE Partition & Acoustic Blankets** products are compression packed to minimize transportation costs and ease on-site storage and handling. Prior to use the packs should be opened to allow recovery of the insulation loft. Product recovery to the stated nominal thickness may be slowed by low temperatures and extended periods of storage in compressed packaging. Installing product at less than the stated nominal thickness does not hinder long-term acoustic performance. These products are proven to recover in-situ over time. The **RHINO WHITE Partition & Acoustic Blankets** range is blue colour tinted to provide easy identification on site. If **RHINO WHITE Partition & Acoustic Blankets** products have been specified and the insulation material is not blue tinted, it is not a **RHINO WHITE Partition & Acoustic Blankets** and instructions should be issued to cease installation until the correct specified material is supplied. Equivalent weight and thickness products may not provide equivalent acoustic performance as small changes to fibre size, blend and fibre bonding effect the products performance. Acoustic insulation should be installed with no gaps. Where required, drops should be mechanically fixed at the top to secure in place until the plasterboard linings are installed. Insulation can be torn by hand across the width of the rolls for length. If the Insulation needs to be cut we suggest using sharp scissors or a wavy edge type Swibo Knife. Partition Blanket products are designed to be used in metal and timber stud walls.

The **RHINO WHITE Partition & Acoustic Blankets** range can be used as an acoustic ceiling overlay to help reduce sound transfer between rooms and spaces, and reduce reverberation times when used behind perforated or panel type systems. (**RHINO WHITE Partition & Acoustic Blankets** is specifically designed for reverberation control in this application). Performance will vary depending on the ceiling system design and installation. For design advice and assistance please contact your THOR Representative.

## RHINO WHITE

### PARTITION & ACOUSTIC BLANKETS

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May 2017

SYSTEM DESCRIPTION	INSULATION TYPE	INSULATION THICKNESS	SYSTEM RATING	
			RW	RW + CTR
1 x layer 10mm Plasterboard each side 64mm metal stud partition wall.	WRA Blanket-60 WRA Blanket-70 WRH Infill-60	60 70 60	39 40 41	- - -
1 x layer 13mm Plasterboard each side 64mm metal stud partition wall.	WRA Blanket-60 WRA Blanket-70 WRH Infill-60	60 70 60	41 42 43	- - -
2 x layers 13mm m Plasterboard one side 1 x layer 13mm m Plasterboard other side of 92mm metal stud partition wall.	WRA Blanket-60 WRA Blanket-90-14 WRH Infill-90	60 90 90	47 49 50	- - -
2x 10 mm Plasterboard each side 92mm metal stud partition wall.	WRA Blanket-70 WRA Blanket-75-11 WRH Infill-60	70 75 90	48 49 50	- - -
2x 13mm FR rated Plasterboard each side 92mm metal stud partition walls.	WRA Blanket-80 WRA Blanket-90-14 WRH Infill-90	80 90 90	54 55 56	- - -
2 x layers 13mm FR rated Plasterboard each side staggered metal stud partition walls using 150mm track.	WRA Blanket-70 WRA Blanket-75-11 WRH Infill-75-14	70 75 75	57 58 59	51 52 53
1 x 16mm FR rated Plasterboard each side double metal stud wall 64mm metal studs wall thickness 204mm. discontinuous construction.	WRH Infill-165 WRP Blanket-60	165mm + 60	59	51



# RHINO WHITE

## PARTITION & ACOUSTIC BLANKETS

acoustic blanket, commercial partition & high performance infill



The acoustic performance stated in this document are based on testing, prediction & opinion. All studs are set out at 600mm centres. Performance on site can vary dependent on installation and limitations on site such as flanking paths. THOR recommends specifying higher than the minimum required performance level to help ensure the Client's expectations are satisfied. For assistance on your project please contact your local THOR representative on 1300 880 828.

### TECHNICAL

**Durability:** RHINO WHITE Partition & Acoustic Blankets have a 50 Year Durability Warranty.

**Moisture:** RHINO WHITE Partition & Acoustic Blankets are not affected by moisture. Exposure to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

**Non Corrosive:** polyester is pH7.8 (pH7 is neutral). Non Toxic, Non Allergenic, Non Irritant: There are no known hazards with the use or handling of RHINO WHITE Partition & Acoustic Blankets.

**Vermin:** naturally resistant to insect and vermin attack.

**Specification & Substitution:** THOR specification documents are available and can be downloaded from our website ([thorbuilding.com.au](http://thorbuilding.com.au)). The performance and design of the RHINO WHITE Partition & Acoustic Blankets range has been engineered to supply a proven sound control system. Substitution of any specified components in a sound control system can significantly compromise the system performance. Products of similar weight and density may not provide equivalent performance, as small variations in fibre size; structure and bonding will effect performance. Accept NO substitutions.

**Take Back Programme:** THOR will gladly recycle used, uncontaminated RHINO insulation to help keep it out of landfill. For more information on recycling RHINO WHITE, contact THOR BUILDING PRODUCTS on 1300 880 828.

**Acoustic Performance:** Performance results are typically reported as RW ratings for partition walls. The construction method, linings and insulation will all contribute to the performance of the partition wall. The acoustic performance ratings described in the following performance tables are valid for metal stud partition walls using 0.551lm steel stud set at 600mm centres (as described in the systems tables). Dependent on the system, installing the correct RHINO Partition Blanket can improve the value between 3 -10 RW points. For design advice on a specific system contact your THOR Representative.

# RHINO WHITE PARTITION & ACOUSTIC BLANKETS

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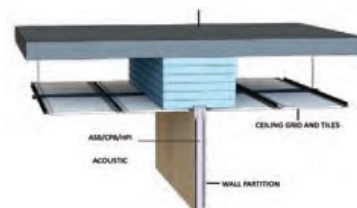
May 2017

# RHINO WHITE SOUND BAFFLE for acoustic applications



## PRODUCT DESCRIPTION

**RHINO WHITE SOUND BAFFLE** is a 100% polyester acoustic insulation product designed to be layer stacked above partition walls to reduce sound transmission through the ceiling plenum space and is supplied as rolls pre-cut to 600mm wide.



## APPLICATIONS

**RHINO WHITE SOUND BAFFLE** is designed for use above new or existing RW rated partition walls to enhance the acoustic privacy between spaces.

## APPLICATION CONSIDERATIONS

**RHINO WHITE SOUND BAFFLE** must be installed with at least enough compression to ensure stack stability and a tight fit to all surfaces including concrete slab, ceiling or the floor above. No gaps to be allowed through the stack.

**RHINO WHITE SOUND BAFFLE** can be installed to a height of 1m without specialist design considerations. Above this height consideration must be given to the stack stability and weight loading restrictions on the ceiling tiles and grid system. Other options are available for plenum heights above 1m.

Where the ceiling plenum is used as an active return for the air conditioning system, ensure air flow is not significantly reduced. Thor Building Products recommends you consult the Mechanical Services Engineer to ensure the use of **RHINO WHITE SOUND BAFFLE** will not result in a loss of effect air movement.

Existing services, ducting, ceiling grid supports and fire control and detection devices must not be affected by the installation. **RHINO WHITE SOUND BAFFLE** should not be used where temperatures exceed 160°C. Where flues or similar heat emitting items pass through the insulation, a 200mm venting gap should be left between that item and the insulation. For more information please discuss your requirements with your Thor Representative.

## TECHNICAL

**BCA Compliance:** RHINO WHITE Insulation when Installed in accordance with the manufacturer's instructions will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

**Durability:** RHINO WHITE SOUND BAFFLE Insulation has a 50 Year Durability Warranty.

**Moisture:** RHINO WHITE Insulation is not affected by moisture. Exposure to an atmosphere of 50oC at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

**Non-Corrosive:** pH7.8 (pH 7 is neutral)

**Vermin:** RHINO WHITE Insulation is naturally resistant to insect and vermin attack

**Installation:** RHINO WHITE Insulation should be installed as a layer stack above RW rated partition walls. RHINO WHITE Insulation must be installed with enough compression to ensure stack stability and a tight fit to all surfaces including slab, roof or floor above. No gaps to be allowed through the stack and small pieces should be used to fill around ducting, services and structural components. Consult with the HVAC Installer/Engineer prior to commencing to ensure no loss of effective air movement to the active return of the air conditioning system.

Additional information and advice is available from your Thor Representative or by phoning Thor Building Customer Services 1300 880 828

**Specification & Substitution:** The performance and design of RHINO WHITE has been engineered to supply a tested and proven sound control system.

# RHINO WHITE SOUND BAFFLE

## THE ULTIMATE PROTECTION

Proudly Supplied by  
Thor Building Products P/L

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May 2017

# RHINO WHITE SOUND BAFFLE for acoustic applications



Substitution of any specified components in a sound control system can significantly compromise the system performance.

Accept NO substitutions.

**Take Back Programme:** We will gladly recycle used, uncontaminated RHINO WHITE insulation to help keep it out of landfill. For more information on recycling RHINO WHITE contact THOR BUILDING PRODUCTS on 1300 880 828.

**Acoustic Performance:** All performance results are based on testing carried out in a laboratory environment. On-site results could vary depending on the system design, materials and quality of the installation.

## PHYSICAL CHARACTERISTICS

PRODUCT CODE	THICKNESS (mm)	Batt Size (mm)	Batts/Pack	Area/Pack (m²)
WRBBlock-100-600	100	8330 x 600	2	10.00

ACOUSTIC PERFORMANCE			
FREQUENCY (Hz)	Installed Product Density: 11 kg/m³ Stack Compression: 10%	Installed Product Density: 15 kg/m³ Stack Compression: 33%	Installed Product Density: 16 kg/m³ Stack Compression: 40%
63	5.22	5.76	6.73
125	7.75	8.38	9.34
250	7.27	8.24	9.01
500	13.15	14.35	15.64
1000	15.25	17.01	18.42
2000	16.56	18.71	20.17
4000	19.53	22.56	24.21
8000	18.30	20.54	21.78
Insertion loss (dBA)	12.9	14.1	15.2
* Tested through the 600 mm section of the material			

For more information and assistance please contact your THOR Representative on 1300 880 828.

# RHINO WHITE SOUND BAFFLE

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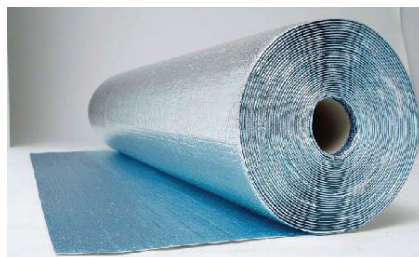
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May 2017

# RHINO CELL 104 AG



Product Specification	
Width	1.35m (+0.15m flap)
Length	22.25m
Area	30m <sup>2</sup>
Thickness	4mm ± 1mm
Laminate 1	Polyethylene weave Al Foil
Bubble Composition	Polyethylene
Laminate 2	Polyethylene weave Al Foil

## PRODUCT DESCRIPTION

Rhino Cell 104 is a 3 in 1 insulation, vapour barrier and radiant heat barrier for use in roof, wall and floor systems. The fibre-free, non-allergenic, formaldehyde free materials used in Rhino Cell provide a safe solution which is also easy to install. Rhino Cell is strong, durable, has low flammability index ( $\leq 5$ ) and is both rodent and insect resistant.

Available in Blue Antiglare surface finish.

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RC-104 AG	Rhino Cell Antiglare	4mm	R-0.10	1.35 (+0.15m flap) x 22.25 (pack 0.32 dia. x 1.5) (pack mass 11.5kg)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	reflective face = 0.03 ± 0.01 antiglare face = 0.05 ± 0.01
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index $\leq 5$ )
ASTM 1530.3	Early Fire Hazard	Ignitability index - N/A Spread of Flame - $\leq 9$ Heat Evolved Ind. - N/A Smoke developed Ind. - $\leq 5$
AS/NZS 3837	Cone Calorimeter	BCA Classification 1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	$\leq 5\%$
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Warehouse metal roof retrofit, fully sealed	R-3.0	R-0.8
Floor, suspended timber enclosed sub floor	R-3.1	R-1.6
Commercial office metal roof, with ceiling	R-3.5	R-1.2
Residential Pitched Metal roof 22°, ventilated	R-2.5	R-1.1
Brick veneer wall	R-1.9	R-2.1

R values shown are Total R values for the building element calculated by a chartered professional engineer and verified by a recognised laboratory. Total R values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006), App K.

The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.

# RHINO CELL 104 AG

## THE ULTIMATE PROTECTION

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May 2017

# RHINO CELL 310 AG



FLAP FOR ADDED  
COVERAGE



Product Specification	
Width	1.35m (+0.15m flap)
Length	22.25m
Area	30m <sup>2</sup>
Thickness	11mm
Laminate 1	Polyethylene weave Al Foil
Bubble Composition	Polyethylene
Laminate 2	Polyethylene weave Al Foil

## PRODUCT DESCRIPTION

**Rhino Cell 310 Thermal Break** is a 3 in 1 insulation, vapour barrier and radiant heat barrier for use in roof, wall and floor systems. The fibre-free, non-allergenic, formaldehyde free materials used in Rhino Cell provide a safe solution which is also easy to install. Rhino Cell is strong, durable, has low flammability index (5) and achieves a Thermal Break of R-0.2.

Available in Blue Antiglare surface finish.

**UNIQUE 150MM FLAP ELIMINATES NEED FOR OVERLAP SAVING UP TO 10%**

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RC-310 AG	Rhino Cell Antiglare	11mm	R-0.20	1.35 x 22.25 (pack 0.49 dia. x 1.5) (pack mass 12.5kg)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	reflective face = 0.03 ± 0.01 antiglare face = 0.05 ± 0.01
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index ≤ 5)
ASTM 1530.3	Early Fire Hazard	Ignitability index - N/A Spread of Flame - ≤ 9 Heat Evolved Ind. - N/A Smoke developed Ind. - ≤ 5
AS/NZS 3837	Cone Calorimeter	BCA Classification 1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	≤ 5%
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Warehouse metal roof with ceiling 300mm, no vent	R-3.6	R-1.3
Residential metal pitched roof 22° steel frame, ventilated	R-2.6	R-1.2
Warehouse metal roof, no ceiling fully sealed	R-2.1	R-1.0

*R values shown are Total R values for the building element calculated by a chartered professional engineer and verified by a recognised laboratory. Total R values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006), App K.*

*The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.*

# RHINO CELL 310 AG

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May 2017



Product Specification	
Width	1.350m
Length	22.25m
Area	30m <sup>2</sup>
Thickness	4mm ± 1mm
Laminate 1	Polyethylene weave Al Foil
Bubble Composition	Polyethylene
Laminate 2	Polyethylene weave Al Foil

## PRODUCT DESCRIPTION

**Rhino Shed** is a 3 in 1 insulation, vapour barrier and radiant heat barrier for use in shed walls and shed under-roof systems where antiglare is not requested.

The fibre-free, non-allergenic, formaldehyde free materials used in Rhino Shed provides a safe solution which is also easy to install.

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RSHD	Rhino Shed	4mm	R-0.10	1.35 x 22.25 (pack 0.32 dia. x 1.35) (pack mass 11.5g)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	reflective face = 0.03 ± 0.01
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index ≤ 5)
ASTM 1530.3	Early Fire Hazard	Ignitability index - N/A Spread of Flame - ≤ 9 Heat Evolved Ind. - N/A Smoke developed Ind. - ≤ 5
AS/NZS 3837	Cone Calorimeter	BCA Classification 1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	≤ 5%
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Shed metal roof retrofit, fully sealed	R-3.0	R-0.8
Shed metal roof, with ceiling	R-3.5	R-1.2
Shed pitched metal roof 22°, ventilated	R-2.5	R-1.1
Shed metal clad wall, 100mm air gap	R-1.1	R-1.2

*R values shown are Total R values for the building element calculated by a chartered professional engineer and verified by a recognised laboratory. Total R values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006), App K.*

*The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.*

# RHINO SHED

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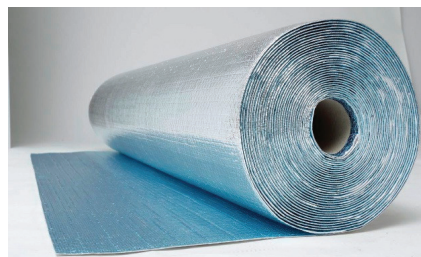
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May 2017



# RHINO CELL CAVITY WALL



Product Specification	
Width	1.35m
Length	22.25m
Area	30m <sup>2</sup>
Thickness	4mm ± 1mm
Laminate 1	Polyethylene weave Al Foil
Bubble Composition	Polyethylene
Laminate 2	Polyethylene weave Al Foil

## PRODUCT DESCRIPTION

**Rhino Cell Cavity Wall** is a 3 in 1 insulation vapour-permeable and radiant heat barrier for use in wall systems. The fibre-free, non-allergenic, formaldehyde free materials used in Rhino Cell Cavity Wall provide a safe solution which is easy to install. Rhino Cell Cavity Wall is strong, durable, has low flammability index ( $\leq 5$ ) and is both rodent and insect resistant.

Available in Blue Antiglare surface finish.

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RC-CW AG	Rhino Cell Cavity Wall	4mm	R-0.10	1.35 x 22.25 (pack 0.32 dia. x 1.35) (pack mass 11.5g)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	reflective face = $0.03 \pm 0.01$ antiglare face = $0.03 \pm 0.01$
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index $\leq 5$ )
ASTM 1530.3	Early Fire Hazard	Ignitability index - N/A Spread of Flame - $\leq 9$ Heat Evolved Ind. - N/A Smoke developed Ind. - $\leq 5$
AS/NZS 3837	Cone Calorimeter	BCA Classification 1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	$\leq 5\%$
AS 4201.4	Water Barrier	Low
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Warehouse metal roof retrofit fully sealed	R-3.0	R-0.8
Floor, suspended timber enclosed sub floor	R-3.1	R-1.6
Commercial office metal roof, with ceiling	R-3.5	R-1.2
Residential Pitched Metal roof 22°, ventilated	R-2.5	R-1.1
Brick veneer wall	R-1.9	R-2.1

*R values shown are Total R values for the building element calculated by a chartered professional engineer and verified by a recognised laboratory. Total R values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006), App K.*

*The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.*

## RHINO CELL CAVITY WALL

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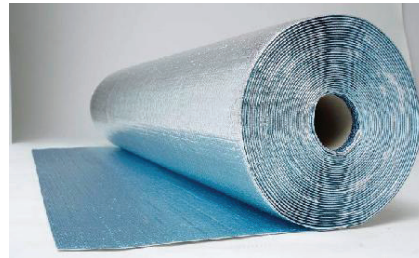
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May 2017

# RHINO CELL UNDERFLOOR



Product Specification	
Width	0.50m
Length	30m
Area	45m <sup>2</sup>
Thickness	4mm ± 1mm
Laminate 1	Polyethylene weave Al Foil
Bubble Composition	Polyethylene
Laminate 2	Polyethylene weave Al Foil

## PRODUCT DESCRIPTION

**Rhino Underfloor** is a 3 in 1 insulation, vapour-permeable and radiant heat barrier for use in underfloor systems. The fibre-free, non-allergenic, formaldehyde free materials used in Rhino Underfloor provide a safe solution which is also easy to install. Rhino Underfloor is strong, durable, has low flammability index (5) and is both rodent and insect resistant.

Available in Blue Antiglare surface finish.

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RC-UF AG	Rhino Underfloor	4mm	R-0.10	0.50 x 30 (pack 0.50 dia. x 1.50) (pack mass 18.5g)	45 3 rolls/pack

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	reflective face = 0.03 ± 0.01 antiglare face = 0.05 ± 0.01
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index ≤ 5)
ASTM 1530.3	Early Fire Hazard	Ignitability index - N/A Spread of Flame - ≤ 9 Heat Evolved Ind. - N/A Smoke developed Ind. - ≤ 5
AS/NZS 3837	Cone Calorimeter	BCA Classification 1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	≤ 5%
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Warehouse metal roof retrofit, fully sealed	R-3.0	R-0.8
Floor, suspended timber enclosed sub floor	R-3.1	R-1.6
Commercial office metal roof, with ceiling	R-3.5	R-1.2
Residential Pitched Metal roof 22°, ventilated	R-2.5	R-1.1
Brick veneer wall	R-1.9	R-2.1

*R values shown are Total R values for the building element calculated by a chartered professional engineer and verified by a recognised laboratory. Total R values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006), App K.*

*The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated.*

## RHINO CELL UNDERFLOOR

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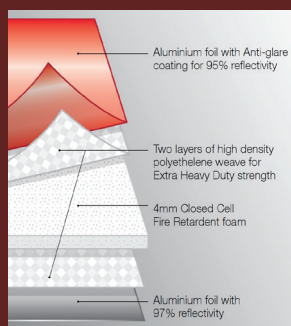
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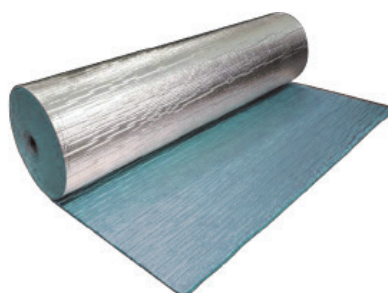
May 2017

# RHINO FOAM 40 ANTI-GLARE



## Product Specification

Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	4.0mm (Nominal)
Area	30m <sup>2</sup>
Roll Diameter	425mm
Roll Weight	10kg (Approx.)
Product Code	RF-40AG



## PRODUCT DESCRIPTION

Rhino Foam 40 AG combines an inner layer of fire retardant foam core laminated to two layers of high performance reflective woven aluminium foil.

Rhino Foam 40 Insulation features an anti-glare coating on one side for safe, easy installation as well as advanced thermal performance reflecting up to 97% of radiant heat flow. Our Rhino Foam 40 AG product provides an energy efficient solution for shed and domestic roof and wall applications and is easy to install on a convenient, fibre free non-itchy roll.

**Unique: 150mm flap eliminates need for overlap, saving up to 10%.**

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RF-40 AG	Rhino Foam 40 AG	4.0mm	R-0.10	1350mm x 22.25m (+0.15m flap)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emittance	Reflective - Silver 97% / Anti-Glare 95%
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability	Low (index ≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY DUTY
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	High
ASTM E-96	Vapour Transmission	Medium

## THERMAL PERFORMANCE

Total System R Values		Winter	Summer
Roof	Pitched Metal Roof (22° Pitched metal roof with flat ceiling unventilated)	1.3	2.3
	Tiled Roof (22° Pitched tile roof with flat ceiling unventilated)	1.4	2.3
	Commercial / Shed Roof (5% metal roof with no ceiling)	0.9	1.9
	Commercial / Shed Roof (5% metal roof with 100mm ceiling)	1.4	3.1
Wall	Steel Stud Framed Wall (90mm Studs)	1.2	1.0
	Brick Veneer Wall (90mm Studs) 2.1 1.8	2.1	1.8

The total R-values of the above systems for winter and summer conditions have been determined in accordance with the requirements of AS/NZS4859.1:2002 Amdt 1 (2006). The contribution of this product total R-value depends on installation and environmental conditions. The R-value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated. Where the cavity is sealed, it is assumed there is no dust and hence emittance is not derated.

### SAFETY INSTRUCTIONS

No personal protective equipment is required, however, it is recommended that UV protective sunglasses be worn when installing outside. This product is non-hazardous. When installing ensure that all electrical cabling, fittings, and wiring are in a safe condition and there is no potential for contact with live wiring or down-lights. Ensure a minimum 50mm clearance from light fittings (check for safe distance with lighting supplier) and ensure 50mm clearance around hot flues. Plastic fixings should be used where any electrical componentry is in close vicinity of the installation materials. Do not use any metal fixings if working in close vicinity of electrical wiring.

## RHINO FOAM 40 ANTI-GLARE

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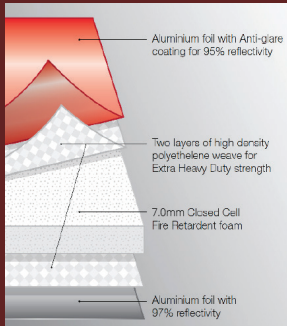
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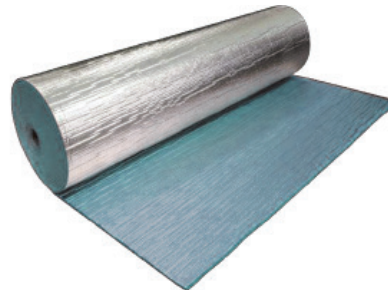
October 2016

# RHINO FOAM 75 THERMAL BREAK



## Product Specification

Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	7.0mm (Nominal)
Area	30m <sup>2</sup>
Roll Weight	14kg (Approx.)
Product Code	RF-75AG
Antiglare Reflectivity	95%
Silver Reflectivity	97%



## PRODUCT DESCRIPTION

Rhino Foam 75 AG Thermal Break combines an inner layer of fire retardant foam core laminated to two layers of high performance reflective woven aluminium foil. Rhino Foam 75 Insulation features an anti-glare coating on one side for safe, easy installation as well as advanced thermal performance reflecting up to 97% of radiant heat flow. Our Thermal Break product provides an energy efficient solution for roof and wall applications in accordance with the BCA and is proudly Australian made.

**Unique: 150mm flap eliminates need for overlap, saving up to 10%.**

Product Code	Description	Thickness (mm)	R-Value (m <sup>2</sup> K/W)	Dimensions (m)	m <sup>2</sup> /pack
RF-75 AG	Rhino Foam 75 AG	7.0mm	R-0.20	1350mm x 22.25m (+0.15m flap)	30

## FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

Test	Description	Parameter
ASTM E - 408	Emissivity	Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
AS/NZS 4859.1 App - H	Corrosiveness	Pass
ASTM 1530.2	Flammability	Low (index ≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
AS/NZS 3837	Cone Calorimeter	N/A
AS 1301.448	Duty Rating, <i>Tensile Strength</i>	EXTRA HEAVY DUTY
TAPPI T470	Duty Rating, <i>Edge Tear Resistance</i>	EXTRA HEAVY DUTY
AS 2001.2.19	Bursting Strength	Stated
AS 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.3	Shrinkage	≤ 5%
AS 4201.4	Water Barrier	High
AS 4201.6	Absorbency	Unclassified
ASTM E-96	Vapour Transmission	Medium

# RHINO FOAM 75 THERMAL BREAK

## THE ULTIMATE PROTECTION

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## THERMAL PERFORMANCE

Application	Heat Flow In	Heat Flow Out
Pitched Metal Roof, flat ceiling (Fully-Sealed Airspace between Metal Roof & Oasis 7.0 Thermal Break)	2.8	1.3
Pitched Metal Roof (22° Warehouse) (Fully-Sealed Airspace between Metal Roof & Oasis 7.0 Thermal Break)	1.7	1
Flat Metal Roof, suspended ceiling (Fully-Sealed Airspace between Metal Roof & Oasis 7.0 Thermal Break)	3.9	1.4
Flat Metal Roof (Warehouse) (Fully-Sealed Airspace between Metal Roof & Oasis 7.0 Thermal Break)	2.1	1
Metal Clad Wall	1.1	1.1
Metal Clad Wall & Plasterboard Lining	1.8	1.7
Double Brick Wall	2.1	2.1
Brick Veneer Wall	2.0	2.0

### SAFETY INSTRUCTIONS

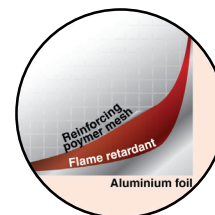
No personal protective equipment is required, however, it is recommended that UV protective sunglasses be worn when installing outside. This product is non-hazardous. When installing ensure that all electrical cabling, fittings, and wiring are in a safe condition and there is no potential for contact with live wiring or down-lights. Ensure a minimum 50mm clearance from light fittings (check for safe distance with lighting supplier) and ensure 50mm clearance around hot flues. Plastic fixings should be used where any electrical componentry is in close vicinity of the installation materials. Do not use any metal fixings if working in close vicinity of electrical wiring.

# RHINO FOIL

## RF-51 & RF-51B



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



### PRODUCT INFORMATION

Rhino Foil Products are specifically manufactured to the highest industry standards.

**WALL INSTALLATION** - Up to R1.1 may be added to the wall system when Rhino Foil RF-51 & RF-51B is installed as wall cladding behind brick veneer/timber cladding. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when Rhino Foil is installed.

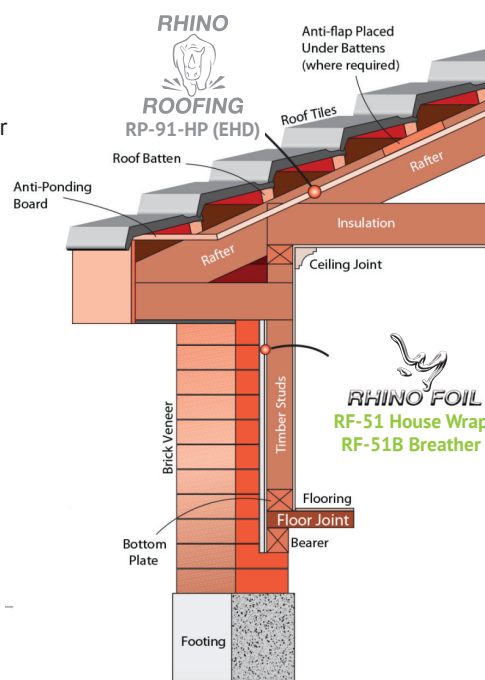
### RHINO FOIL USAGE

#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values



## LIGHT WEIGHT SUPER STRENGTH HOUSE WRAP RF-51 RF-51B

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Recommended Applications and Properties				
			RF-51	RF-51B
Residential Wall Insulation			✓	✓
Commercial Wall Insulation			✓	✓
Duty			Medium	Medium
Vapour barrier			High	Low
Emittance			Reflective	Reflective
Water barrier			High	Unclassified
Flammability Index < 5			< 5	< 5
Tensile Strength Machine Direction (kN/M)			min 9.5	min 9.5
Tensile Strength Lateral Direction (kN/M)			min 6.0	min 6.0
Edge Tear Resistance Machine Direction (N)			min 65	min 65
Edge Tear Resistance Lateral Direction (N)			min 65	min 65
Water Vapour Transmission Rate (Ng/Ns)			max 2	min 140
Emittance of Reflective Face			max 0.05	max 0.05
Availability				
Width 1350mm	Length 30m	Area 40.5m²	✓	✓
Width 1350mm	Length 60m	Area 81m²	✓	✓

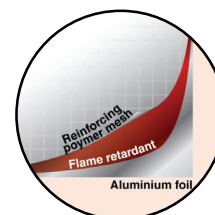


# RHINO WRAP

## RP-51 & RP-51B



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding
- ✓ Low Flammability Index in accordance with AS 1530.2 <5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties
- ✓ Satisfy Health & Safety Regulations



### PRODUCT INFORMATION

Rhino Wrap Products are specifically manufactured to the highest industry standards.

**WALL INSTALLATION** - Up to R1.1 may be added to the wall system when Rhino Wrap RP-51 & RP-51B is installed as wall cladding behind brick veneer/timber cladding. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Our Reinforcing Polymer Mesh is purposely-treated blue in colour to reduce reflective glare problems when Rhino Wrap is installed.

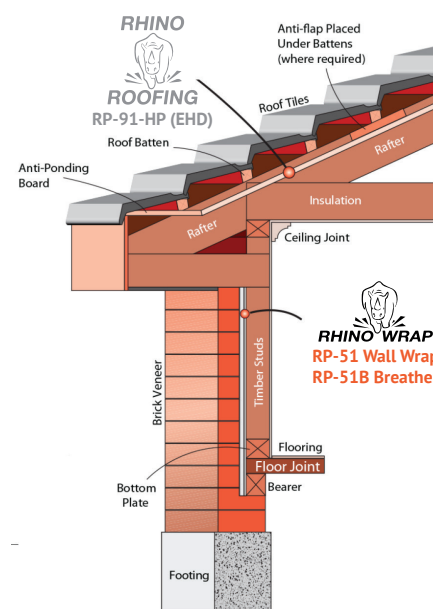
### RHINO WRAP USAGE

#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200.2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values



## HEAVY DUTY WALL WRAP RP-51 RP-51B

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Recommended Applications and Properties				
	RP-51	RP-51B		
Residential Wall Insulation	✓	✓		
Commercial Wall Insulation	✓	✓		
Duty	Heavy	Heavy		
Vapour barrier	High	Low		
Emittance	Reflective	Reflective		
Water barrier	High	Unclassified		
Flammability Index < 5	< 5	< 5		
Tensile Strength Machine Direction (kN/M)	min 12.5	min 12.5		
Tensile Strength Lateral Direction (kN/M)	min 7.5	min 7.5		
Edge Tear Resistance Machine Direction (N)	min 80	min 80		
Edge Tear Resistance Lateral Direction (N)	min 80	min 80		
Water Vapour Transmission Rate (Ng/Ns)	max 2	min 140		
Emittance of Reflective Face	max 0.05	max 0.05		
Availability				
Width 1350mm Length 30m Area 40.5m <sup>2</sup>	✓	✓		
Width 1350mm Length 60m Area 81m <sup>2</sup>	✓	✓		
Width 1500mm Length 30m Area 45m <sup>2</sup>	✓	✓		
Width 1500mm Length 60m Area 90m <sup>2</sup>	✓	✓		

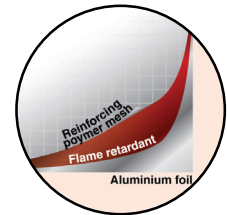


# METAL ROOFING

## RP-51MR



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



### PRODUCT INFORMATION

Rhino Roofing Products are specifically manufactured to the highest industry standards.

**ROOF INSTALLATION** - Up to R1.3 may be added to insulation system when Rhino RP-51MR is installed. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when installing Roofing Products.

### RHINO METAL ROOFING USAGE

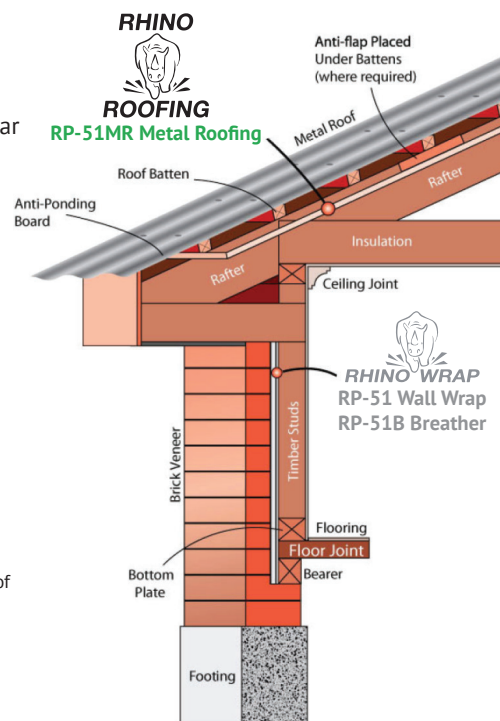
#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values
- 40mm sag between trusses is recommended when using Rhino RP-51MR
- For use in enclosed structures

**NOTE:** Use in cold temperature climates (daytime < 5°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.



**RHINO**  
**METAL**  
**ROOFING**  
**RP - 51 MR**

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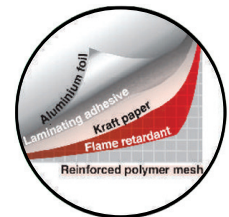
Recommended Applications and Properties		
Residential & Commercial Roof Insulation		✓
Duty		Heavy
Vapour barrier		High
Emittance		Reflective
Water barrier		High
Flammability Index < 5		< 5
Tensile Strength Machine Direction (kN/M)		min 12.5
Tensile Strength Lateral Direction (kN/M)		min 7.5
Edge Tear Resistance Machine Direction (N)		min 80
Edge Tear Resistance Lateral Direction (N)		min 80
Water Vapour Transmission Rate (Ng/Ns)		max 2
Emittance of Reflective Face		max 0.05
Availability		
Width 1350mm	Length 30m	Area 40.5m <sup>2</sup>
Width 1350mm	Length 60m	Area 81m <sup>2</sup>

# RHINO ROOFING

## RP-61



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.
- ✓ Complies with AS/NZS 4040.4 Impact Resistance (Sandbag Test).



### PRODUCT INFORMATION

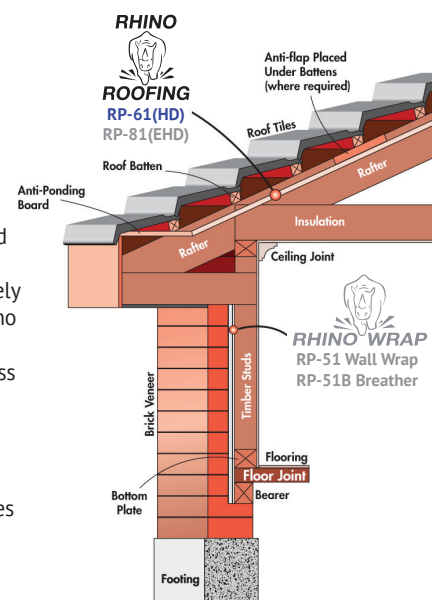
Rhino Roofing Products are specifically manufactured to the highest industry standards.

**ROOF INSULATION** - Up to R1.0 (downward heat flow) may be added to the insulation System R-Value when Rhino Roofing RP-61 is installed adjacent to an airspace in tiled roof structures. Our specialist manufacturing process bonds together Aluminium Foil and high density Kraft Paper that is then laminated with a high strength reinforcing Polymer Mesh. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when Rhino Roofing is installed. To achieve and ensure maximum protection is attained, Flame Retardant Adhesive is applied during the final process of manufacture in all Rhino Roofing Products.

**ENERGY EFFICIENCY** - Rhino Roofing RP-61 provides effective reductions in greenhouse gas emissions when used in an insulation agent in buildings. Preferred seasonal gains in required temperatures are assured.

**LIGHT REFLECTIVITY** - Gains of up to 40% can be obtained by using Rhino Roofing RP-61 as an exposed internal roof lining. Efficiencies in lighting loads are also evident. Conforms to AS/NZS 4859.1-2002.

**PROTECTIVE ROOF/VAPOUR BARRIER** - Added protection against stormwater, condensation and wind is achieved in roof structures when applied under roof tiles. Rhino Roofing RP-61 can also be a very effective vapour barrier when sealed with recommended tapes.



### RHINO ROOFING RP-61 USAGE

#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values
- 40mm sag between trusses is recommended when using Rhino Roofing RP-61
- For use in enclosed structures

#### Recommended Applications and Properties

Recommended Applications and Properties	
Tensile strength - Cladding	High
Durability - Cladding	High
Impact Resistant - Cladding	High
Residential & Commercial Roof Insulation	✓
Flame Retardant - Cladding	✓
Duty	Heavy
Vapour Barrier	High
Emittance	Reflective
Water Barrier	High
Flammability Index < 5	< 5
Tensile Strength Machine Direction (kN/M)	min 12.5
Tensile Strength Lateral Direction (kN/M)	min 7.5
Edge Tear Resistance Machine Direction (N)	min 80
Edge Tear Resistance Lateral Direction (N)	min 80
Water Vapour Transmission Rate (Ng/Ns)	max 2
Emittance of Reflective Face	max 0.05
Availability	
Width 1500mm	Length 30m
Area 45m <sup>2</sup>	

**NOTE:** Use in cold temperature climates (daytime < 5°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

# RHINO ROOFING

## RP - 61

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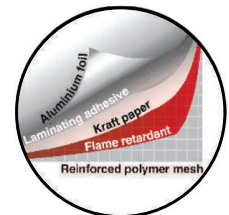
May 2017

# RHINO ROOFING

## RP-101



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.
- ✓ Complies with AS/NZS 4040.4 Impact Resistance (Sandbag Test).



### PRODUCT INFORMATION

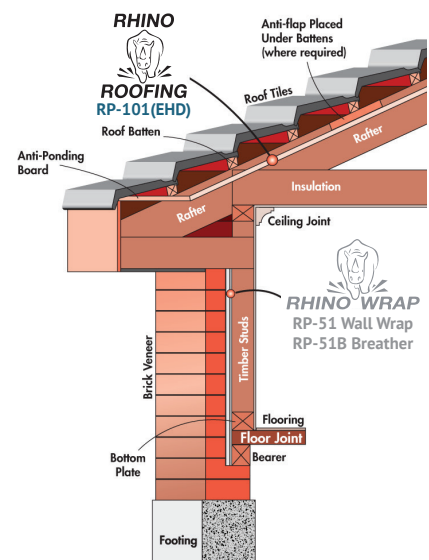
Rhino Roofing Products are specifically manufactured to the highest industry standards.

**ROOF INSULATION** - Up to R1.0 (downward heat flow) may be added to the insulation System R-Value when Rhino Roofing RP-101 is installed adjacent to an airspace in tiled roof structures. Our specialist manufacturing process bonds together Aluminium Foil and high density Kraft Paper that is then laminated with a high strength reinforcing Polymer Mesh. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when Rhino Roofing is installed. To achieve and ensure maximum protection is attained, Flame Retardant Adhesive is applied during the final process of manufacture in all Rhino Roofing Products.

**ENERGY EFFICIENCY** - Rhino Roofing RP-101 provides effective reductions in greenhouse gas emissions when used in an insulation agent in buildings. Preferred seasonal gains in required temperatures are assured.

**LIGHT REFLECTIVITY** - Gains of up to 40% can be obtained by using Rhino Roofing RP-101 as an exposed internal roof lining. Efficiencies in lighting loads are also evident. Conforms to AS/ NZS 4859.1-2002.

**PROTECTIVE ROOF/VAPOUR BARRIER** - Added protection against stormwater, condensation and wind is achieved in roof structures when applied under roof tiles. Rhino Roofing RP-101 can also be a very effective vapour barrier when sealed with recommended tapes.



### RHINO ROOFING RP-101 USAGE

#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed
- only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/ NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes".
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values.
- 40mm sag between trusses is recommended when using Rhino Roofing RP-101.
- For use in enclosed structures.

Recommended Applications and Properties		
Tensile strength - Cladding		High
Durability - Cladding		High
Impact Resistant - Cladding		High
Residential & Commercial Roof Insulation		✓
Flame Retardant - Cladding		✓
Duty		Extra Heavy
Vapour Barrier		High
Emittance		Reflective
Water Barrier		High
Flammability Index < 5		< 5
Tensile Strength Machine Direction (kN/M)		min 13.0
Tensile Strength Lateral Direction (kN/M)		min 10.5
Edge Tear Resistance Machine Direction (N)		min 90
Edge Tear Resistance Lateral Direction (N)		min 90
Water Vapour Transmission Rate (Ng/Ns)		max 2
Emittance of Reflective Face		max 0.05
Availability		
Width 1500mm	Length 30m	Area 45m²

**NOTE:** Use in cold temperature climates (daytime < 5°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

# RHINO ROOFING RP-101

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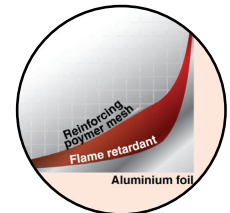
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# HIGH PERFORMANCE

## RP-91-HP-15



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.
- ✓ Complies with AS/NZS 4040.4 Impact Resistance (Sandbag Test).



### PRODUCT INFORMATION

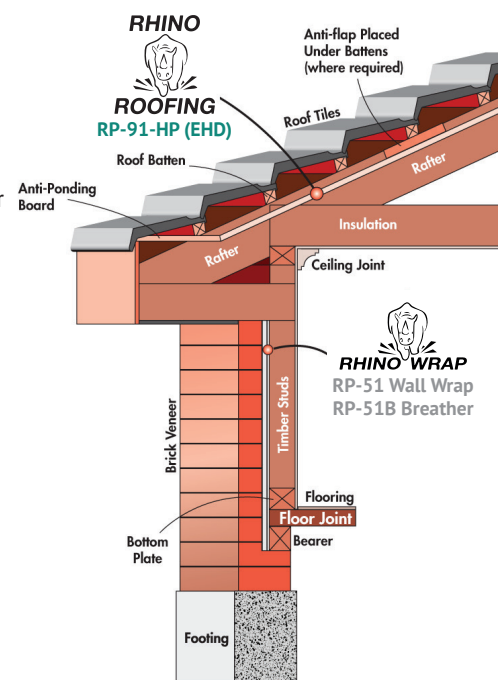
Rhino Roofing Products are specifically manufactured to the highest industry standards.

**ROOF INSULATION** - Up to R1.0 (tiled) & R1.3 (Metal) may be added to insulation protection when Rhino Roofing RP-91-HP is installed within an airspace in roof structures. Our specialised manufacturing process laminates Aluminium Foil with a high strength reinforcing Polymer Mesh.

**ENERGY EFFICIENCY** - Rhino Roofing RP-91-HP contributes to effective reductions in greenhouse gas emissions when used as an insulation agent in buildings.

**LIGHT REFLECTIVITY** - Gains of up to 40% can be obtained by using Rhino Roofing RP-91 as an exposed internal roof lining. Efficiencies in lighting loads are also evident. Conforms to AS/NZS 4859.1-2002.

**PROTECTIVE ROOF/VAPOUR BARRIER** - Added protection against stormwater, condensation and wind is achieved in roof structures when applied under roof tiles or metal roofs. Rhino Roofing RP-91-HP can also be a very effective vapour barrier when sealed with recommended tapes.



### RHINO ROOFING (EHD) USAGE

#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200.2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values
- 40mm sag between trusses is recommended when using Rhino Roofing RP-91
- For use in enclosed structures

#### Recommended Applications and Properties

Tensile strength - Cladding	High
Durability - Cladding	High
Impact Resistant - Cladding	High
Residential & Commercial Roof Insulation	✓
High Wind Load Protection	✓
Acoustic Performance Agent	✓
Flame Retardant - Cladding	✓
Duty	Extra Heavy
Vapour Barrier	High
Emittance	Reflective
Water Barrier	High
Flammability Index < 5	< 5
Tensile Strength Machine Direction (kN/M)	min 13.0
Tensile Strength Lateral Direction (kN/M)	min 10.5
Edge Tear Resistance Machine Direction (N)	min 90
Edge Tear Resistance Lateral Direction (N)	min 90
Water Vapour Transmission Rate (Ng/Ns)	max 2
Emittance of Reflective Face	max 0.05
<b>Availability</b>	
Width 1500mm	Length 30m
Area 45m <sup>2</sup>	

**NOTE:** Use in cold temperature climates (daytime < 5°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

# RHINO

## ROOFING

### RP-91 HIGH PERFORMANCE

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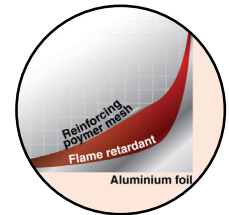
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# MULTI PURPOSE RP-51-WR



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



## PRODUCT INFORMATION

Rhino Wrap Products are specifically manufactured to the highest industry standards.

**WALL INSTALLATION** - Up to R1.1 may be added to the wall system when Rhino Multi Purpose Wrap is installed as wall cladding behind brick veneer/timber cladding.

**ROOF INSTALLATION** - Up to R1.3 may be added to insulation system when Rhino Multi Purpose Wrap is installed. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when Rhino Multi Purpose wrap is installed.

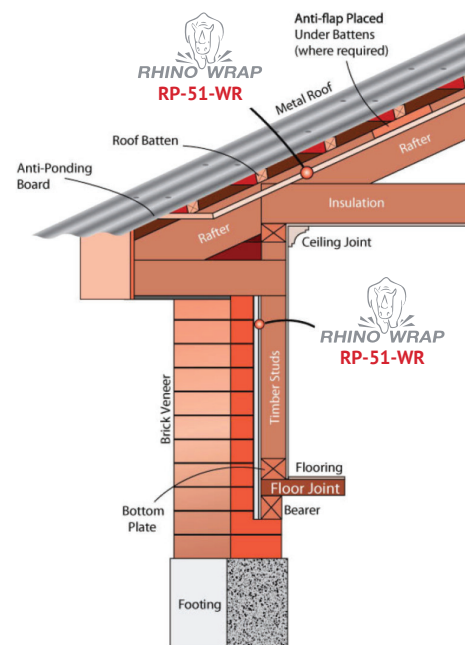
## RHINO MULTI PURPOSE WRAP USAGE

### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values
- 40mm sag between trusses is recommended when using Rhino RP-51-WR
- For use in enclosed structures



**RHINO  
MULTI  
PURPOSE  
WALL & METAL ROOF**

**THE ULTIMATE  
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### Recommended Applications and Properties

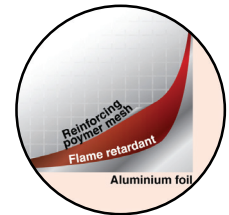
Residential & Commercial Wall & Roof Insulation	✓
Duty	Heavy
Vapour barrier	High
Emittance	Reflective
Water barrier	High
Flammability Index < 5	< 5
Tensile Strength Machine Direction (kN/M)	min 12.5
Tensile Strength Lateral Direction (kN/M)	min 7.5
Edge Tear Resistance Machine Direction (N)	min 80
Edge Tear Resistance Lateral Direction (N)	min 80
Water Vapour Transmission Rate (Ng/Ns)	max 2
Emittance of Reflective Face	max 0.05
<b>Availability</b>	
Width 1350mm	Length 30m
Width 1350mm	Length 60m
Area 40.5m <sup>2</sup>	
Area 81m <sup>2</sup>	

# TILE & METAL ROOFING

## RP-51-TM



- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



### PRODUCT INFORMATION

Rhino Roofing Products are specifically manufactured to the highest industry standards.

**ROOF INSTALLATION** - Up to R1.3 may be added to insulation system when RP-51-TM is installed. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Our Reinforcing Polymer Mesh is purposely treated blue in colour to reduce reflective glare problems when installing Roofing Products.

### RHINO TILE & METAL ROOFING USAGE

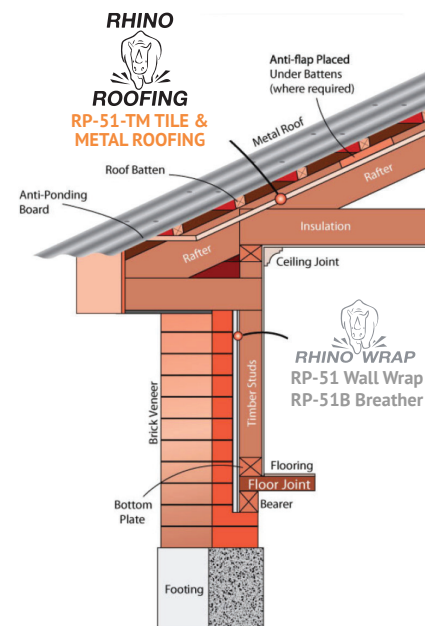
#### In all applications:

- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

#### In reflective foil laminate applications:

- Use only in accordance with AS/NZS 4200. 2 for the "Installation Requirements for Pliable Building Membranes"
- Minimum of 20mm air space is recommended adjacent to reflective foil face to achieve maximum insulation values
- 40mm sag between trusses is recommended when using Rhino RP-51-TM
- For use in enclosed structures

**NOTE:** Use in cold temperature climates (daytime < 5°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.



**RHINO**  
TILE & METAL  
ROOFING RP-51TM

**THE ULTIMATE  
PROTECTION**

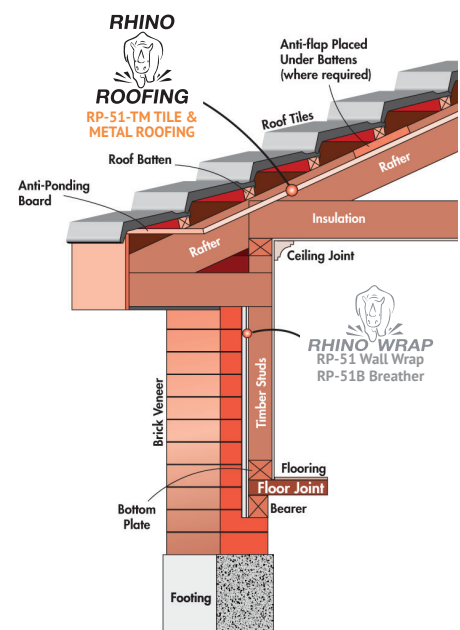
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Recommended Applications and Properties		
Residential & Commercial Wall & Roof Insulation		✓
Duty		Heavy
Vapour barrier		High
Emittance		Reflective
Water barrier		High
Flammability Index < 5		< 5
Tensile Strength Machine Direction (kN/M)		min 12.5
Tensile Strength Lateral Direction (kN/M)		min 7.5
Edge Tear Resistance Machine Direction (N)		min 80
Edge Tear Resistance Lateral Direction (N)		min 80
Water Vapour Transmission Rate (Ng/Ns)		max 2
Emittance of Reflective Face		max 0.05
Availability		
Width 1350mm	Length 30m	Area 40.5m <sup>2</sup>
Width 1500mm	Length 20m	Area 30m <sup>2</sup>





# RHINO BLANKET FACING



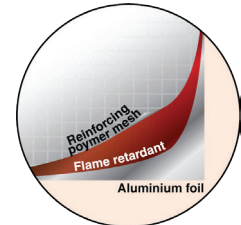
## PRODUCT INFORMATION

Thor's Blanket Facing is made with a high strength polywoven fabric facing which is applied to a glasswool blanket whilst other products commonly use a double sided foil with fibre mesh for the facing.

The polywoven fabric provides the additional benefits of:

- ✓ Outstanding tensile and tear strength.
- ✓ Unrolls more easily right the way to the end of the roll.
- ✓ An excellent visible surface finish.

- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates.
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 ≤ 5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties.
- ✓ Satisfy Health and Safety Regulations.



## APPLICATION

Designed for application under metal, fibre cement, and concrete roof cladding Thor's Blanket Facing eliminates the problems associated with condensation build up on the underside of the roof cladding. The reflective foil face faces down toward the air space under the roof and prevents airborne moisture from reaching the surface of the roof cladding.

**NOTE** - Use in cold temperature climates (daytime <50°C) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

**FACING OPTIONS** - The Duty Rating, Colour and Material Finish of the blanket facing can be varied to suit your application.

Duty	Extra Heavy	Heavy	Extra Light
Width (mm)	1750	1750	1750
Residential Insulation			
Commercial Insulation			
Vapour barrier	High	High	Unclassified
Emittance	Reflective	Reflective	Non-Reflective
Water barrier	High	High	Unclassified
Flammability Index	Low (≤5)	Low (≤5)	Low (≤5)
UV treated non reflective face (not direct sunlight)	✓	-	-
Tensile Strength Machine Direction (kN/m)	min 13.0	min 12.5	min 6
Tensile Strength Lateral Direction (kN/m)	min 10.5	min 7.5	min 3.5
Edge Tear Resistance Machine Direction (N)	min 90	min 80	min 70
Edge Tear Resistance Lateral Directions (N)	min 90	min 80	min 70
Water Vapour Transmission Rate (Ng/Ns)	max 2	max 2	Unclassified
Emittance of Reflective Face	max 0.05	max 0.05	N/A

# RHINO BLANKET FACING

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- Gloss White** for showrooms and retail spaces - no direct sunlight
- Gloss Silver-Grey** for customary reflective faced blanket
- Black Fabric** for acoustic absorption application

# RHINO MET THERM PIR PANEL

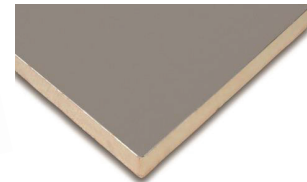
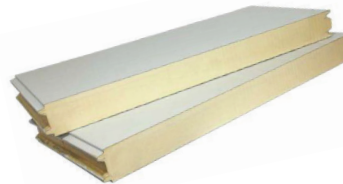


## APPLICATIONS INCLUDE

- Soffit Board
- Cavity Wall Board
- All Purpose (AP) Framing Board

## RHINO MET THERM PIR PANEL

Rhino Met Therm PIR Panel is an Australian made and tested prefabricated heat insulating element for a variety of applications in the building and domestic industry, which consists of flexible cover sheets connected with a high bond to a cored polyisocyanurate foam. The cover sheets can be made of different materials, such as aluminium foil, mineral and glass fleeces and paper. The boards are available in thicknesses between 25 to 150 mm and lengths up to 10m. The polyisocyanurate foam, a three-dimensionally networked thermoset, is made from synthetic polymers, which are combined with a CFC-and HCFC free blowing agent (zero CCP) in an expansion process to form microscopic cells throughout the material. Our laminates offer a combination of structural properties and capacities of cost-effective system building and energy conservation at minimal weight along with low water absorption, thermal and acoustic insulation and good chemical resistance at good aging stability.



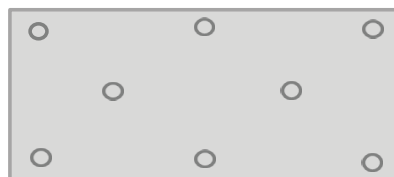
Rhino Met Therm PIR Panel sets a new standard in PIR insulation systems as it offers a more cost effective, high performance, zero -ozone depleting PIR insulated solution. Rhino Met Therm PIR Panel is available with facings of, bright silver foil, craft paper and white fibreglass finish. Rhino Met Therm PIR Panel has great thermal properties which will save energy for heating, cooling and lighting. Its acoustic properties will also help in reducing noise. Rhino Met Therm PIR Panel is available in thicknesses of 25mm through to 100mm in 5mm increments.

<b>Core</b>	PIR (Fire-retardant Polyisocyanurate)
<b>Width(mm)</b>	1200
<b>Thickness (mm)</b>	25 through to 100 in 5mm increments
<b>Length (mm)</b>	2400
<b>Interior Facing Skin</b>	Silver Foil, Craft Paper, White Fibreglass
<b>Exterior Facing Skin</b>	Silver Foil, Craft Paper, White Fibreglass

## INSTALLATION OF RHINO MET THERM PIR PANEL AS A CONCRETE SOFFIT:

Where Rhino Met Therm PIR Panel is exposed to external wind loads ensure fasteners chosen for the install are in accordance with AS/NZS 1170.2 - Wind load standards.

1. Place Rhino Met Therm PIR Panel against the underside of the concrete slab.
2. Use fasteners that incorporate washers with a head diameter of not less than 35mm diameter (for example: using Hilti X-IE6 Insulation fasteners) boards can either be in a square or staggered pattern. Begin to affix the boards to the underside of the concrete in accordance with manufacturer's guidelines.
3. Continue fixing each board following the below minimum fixing layout, each board that is 2400mm x 1200mm must be fixed with no less than 8 fasteners. Fasteners around the perimeter of the board must be between 50mm and 150mm from the edge of the board.
4. Repeat the above steps to install the Rhino Met Therm PIR Panel in a continuous layer on the underside of the concrete slab.
5. Tape all joins with a minimum 96mm wide Insulation tape. Following the manufacturer's installation guidelines. Ensure to seal around the perimeter and joins, this will prevent air flow between any air cavities formed below or above the boards.



Fastener configuration, B pef 2400mm x 1200mm board - 2.78 fixings 1m<sup>2</sup>

# RHINO MET THERM PIR PANEL

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# RHINO MET THERM PIR PANEL



## APPLICATIONS INCLUDE

- Soffit Board
- Cavity Wall Board
- All Purpose (AP) Framing Board

Panel Properties					
Panel Thickness (mm)	25	40	50	60	65
Mass (kg/m <sup>3</sup> )**	1.3	1.9	2.2	2.8	3
Thermal Performance					
(based on NATA endorsed k=0.020355 W/mK at 23C)					
Initial 'U' Value (W/m <sup>2</sup> K)	0.81	0.51	0.41	0.34	0.31
Initial 'R' Value (m <sup>2</sup> K/W)	1.23	1.97	2.46	2.95	3.19

Panel Properties					
Panel Thickness (mm)	70	75	80	90	100
Mass (kg/m <sup>3</sup> )**	3.2	3.3	3.6	3.7	3.8
Thermal Performance					
(based on NATA endorsed k=0.020355 W/mK at 23C)					
Initial 'U' Value (W/m <sup>2</sup> K)	0.29	0.27	0.25	0.23	0.2
Initial 'R' Value (m <sup>2</sup> K/W)	3.44	3.68	3.93	4.42	4.91

### NOTES:

- Taken from NATA endorsed test report and using ISO 10456, table A.4 for the calculation of k-values at 23 deg C
- May vary depending on facing materials used. Typical value based on boards being manufactured with Aluminium Foil external facing. Craft Paper on Internal facing.

Please find the Installation Guide for:

Soffit Board - Cavity Wall Board - All Purpose (AP) Framing Board on our website: [www.thorbuilding.com.au](http://www.thorbuilding.com.au)

## RHINO MET THERM PIR PANEL - USE IN CONCRETE WALL SYSTEM

System calculation assumes incorporation of 100mm concrete, 70mm thick Rhino Met Therm PIR Panel insulation (reflective surface facing into the airspace below).

Concrete wall –Rhino Met Therm PIR Panel insulation directly fixed to concrete Wall (no internal lining) RT 2.9

System calculation assumes incorporation of 150mm concrete, 55mm thick Rhino Met Therm PIR Panel insulation (reflective surface facing internally).



## RHINO MET THERM PIR PANEL

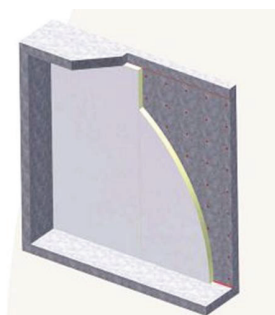
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Concrete wall –Rhino Met Therm PIR Panel insulation directly fixed to concrete Wall (with internal lining) RT 2.8

System calculation assumes incorporation of 150mm concrete, 40mm thick Rhino Met Therm PIR Panel insulation, 24mm reflective airspace (created using steel batten), 10mm plasterboard lining.

# RHINO MET THERM PIR PANEL



## APPLICATIONS INCLUDE

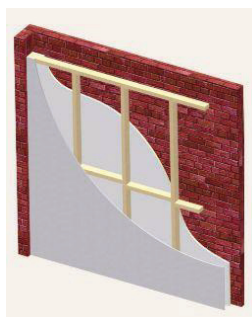
- Soffit Board
- Cavity Wall Board
- All Purpose (AP) Framing Board

## RHINO MET THERM PIR PANEL - USE IN BRICK VENEER WALL SYSTEM

**System calculation assumes incorporation of 110mm clay brick, 45mm airspace, 35mm thick Rhino Met Therm PIR Panel insulation, 55mm reflective air space, 10mm plasterboard lining**

Brick Veneer Wall – Rhino Met Therm PIR Panel insulation positioned within wall frame RT 2.8

System calculation assumes incorporation of 110mm clay brick, 45mm airspace, 35mm thick Rhino PIR insulation, 55mm reflective air space, 10mm plasterboard lining.

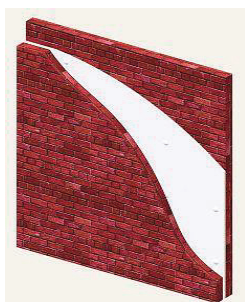
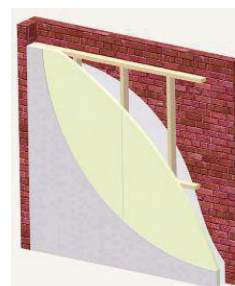


Brick Veneer Wall – Rhino Met Therm PIR Panel insulation positioned towards external side of wall frame RT 2.9

System calculation assumes incorporation of 110mm clay brick, 20mm reflective airspace, 25mm thick Rhino PIR insulation, 90mm reflective airspace, 10mm plasterboard lining.

Brick Veneer Wall – Rhino Met Therm PIR Panel insulation positioned towards internal side of wall frame RT 2.9

System calculation assumes incorporation of 110mm clay brick, 45mm airspace, 90mm reflective airspace, 35mm Rhino Met Therm PIR Panel insulation, 10mm plasterboard lining.



Cavity brickwall – Rhino Met Therm PIR Panel insulation positioned adjacent to the inner leaf RT 2.8

System calculation assumes incorporation of 110mm clay brick, 20mm reflective airspace, 35mm thick Rhino Met Therm PIR Panel insulation, 110mm clay brick.

# RHINO MET THERM PIR PANEL

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# RHINO LAGGING



## PRODUCT DESCRIPTION

Rhino Pipe Acoustic Lagging. Acoustic Insulation for waste pipes.

## SPECIFICATION NOTES

When specifying state the following:

- Product name **Rhino Pipe Acoustic Lagging**
- Density-5kg/m<sup>2</sup>
- State elements to be insulated:  
eg. Acoustically insulate all sewer and rainwater pipes installed behind walls and ceiling linings.

## PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Rhino's Pipe Acoustic Lagging is recommended for reducing noise generated by rainwater or waste pipes. It is typically used to wrap PVC or metal pipes in residential or multi-residential buildings, as well as in commercial buildings such as cinemas, auditoriums and concert halls. Pipe Acoustic Lagging is a combination of a loaded polymer barrier adhered to convoluted acoustic foam with an outer layer of Aluminium Foil Tri-Laminate.

Pipe Acoustic Lagging addresses the Building Code of Australia (Part F5) requirements that the sound insulation performance floors and walls in Class 2 and 3 multi-residential buildings shall not be adversely affected by pipe or service penetrations.

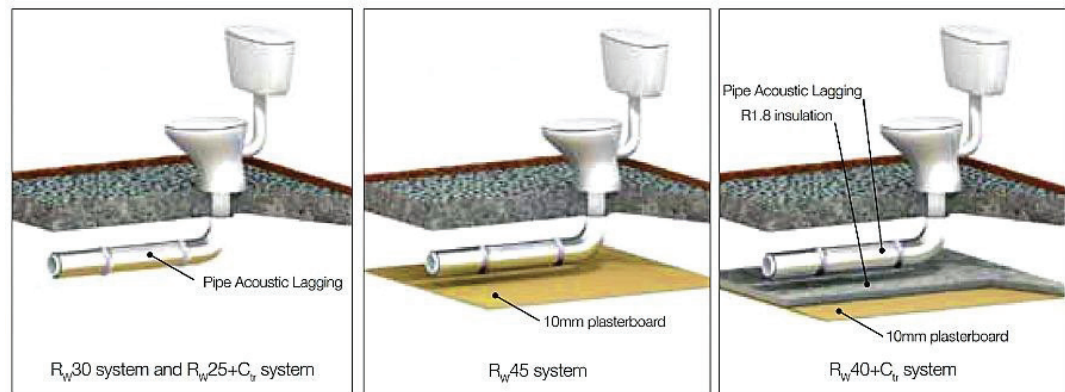
The BCA recognises the common problem of noise intrusion from waste pipes and specifies minimum standards of noise separation between such pipes and habitable room spaces (bedrooms, lounges, dining and family rooms) and non habitable room spaces (bathrooms, kitchens and laundries).

In these cases, Pipe Acoustic Lagging must be applied to pipes adjacent to ceiling penetrations such as air conditioning ducts, vents, downlights and exhaust fans. Pipe Acoustic Lagging correctly installed within a 'deemed to satisfy' construction, meets these requirements.

## PHYSICAL CHARACTERISTICS

Product/density (kg/m <sup>2</sup> )	Thickness (mm)	Roll Size (mm)	m <sup>2</sup> /Roll
5	25	5m x 1350mm	6.75

## SOUND TRANSMISSION LOSS



# RHINO LAGGING

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## AS1530.3 EARLY FIRE HAZARD PROPERTIES OF MATERIALS

Pipe Acoustic Lagging exhibits the following characteristics when tested in accordance with AS1530.3

## MAXIMUM OPERATING TEMPERATURE

Operating temperature (maximum continuous) 80°C

Operating temperature (maximum intermittent) 100°C

## INSTALLATION

Pipe Acoustic Lagging can be cut from rolls to fit the required PVC waste pipe diameter. All butt joints must be taped. Reinforced aluminium foil tape is recommended for this application. Reinforced aluminium foil tape must be a minimum of 48mm in width. As well as taping all longitudinal and circumferential joints, it is recommended that a band of tape be applied midway along each section to overcome sagging and to ensure Pipe Acoustic Lagging is held in close contact with the pipe. Pipe Acoustic Lagging is easily cut with a sharp knife.



# RHINO ROCKWOOL FIRE SEAL BATTS



## PRODUCT DESCRIPTION

Rhino Rockwool Fire Seal Batts have been developed to provide up to 4 hours fire-resistance at the junctions between the top of party walls and roof structures, and to the diverse junctions of compartment walls and floors. It is a highly robust mineral wool that remains dimensionally stable at extremely high temperatures.

100	1200x168	10	2.016
-----	----------	----	-------

## PRODUCT PERFORMANCE PROPERTIES

### Fusion Temperature

> 1120°C - Melting point to flow of Roxul® Stonewool fibre.

### Thermal Conductivity (typical data)

Tested in accordance with DIN 52612

K value W/m.K	0.038	0.044	0.052	0.062	0.074	0.088
---------------	-------	-------	-------	-------	-------	-------

*NOTE: The above are declared thermal conductivity performances and are based on the mean value of many Roxul laboratory and independent testing authority test results.*

### Fire Resistance

Fire resistance performance was tested by CSIRO in accordance with A.S 1530 Part 4 (Fire resistance tests of elements of building construction), and A.S. 4072-1992 (Components for the protection of openings in fire separating elements - Service penetrations and control joints. As a result of this testing a 200mm thick specimen of Roxul Party Wall Fire Stop achieved:

**INTEGRITY 4HOURS**  
**INSULATIONS 4HOURS**

### Fire

Roxul® Stonewool Party Wall Fire Stop is non-combustible when tested according to international standards e.g. ASTM E-136-82, DIN 4102, BS476 Pt4-1970, ISO 1182 and IMO A 799 (19).

### Corrosion Resistance - Chemical Neutrality:

Roxul® Stonewool base mineral wool is chemically neutral and will neither cause nor promote corrosion.

### Corrosion Resistance - Water Leachable Chlorides:

Roxul® Stonewool base mineral wool has a very low content of water leachable chloride, approximately 6ppm, so it can be safely used on austenitic stainless steel. Meets the requirements for use over stainless steel in accordance with ASTM C795 and of "AS-Quality" of AGI Q135.

### Moisture Resistance - Vapour Diffusion:

Water vapour diffusion resistance factor of  $\mu = 1.3$ . This low value means that water can pass through and cool without condensing.

### Moisture Resistance - Absorption from the air:

Roxul® Stonewool absorbs very little water from the air. Tests show at relative humidity of 90% for 30 days the hygroscopic water content is around .004 volume per cent. The water vapour absorption (vapor sorption) in accordance with ASTM C110 4/C 110 M is + 0.02% (vol).

### Specific Heat:

Roxul® Stonewool specific heat factor is 0.84 kJ/kg per degree centigrade.

### Calorific Value:

Roxul® Stonewool has a low organic matter content giving a low caloric value of around 600 kJ/kg.

### Biological Properties:

Roxul® Stonewool contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

### Durability

Roxul® Stonewool mineral wool has been proven in services for over 50 years in all types of exposure and as such will give effective protection for the lifetime of the equipment they insulate.

# RHINO ROCKWOOL

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# RHINO ROCKWOOL FIRE SEAL BATTS



## PRODUCT DESCRIPTION

Rhino Rockwool Fire Seal Batts have been developed to provide up to 4 hours fire-resistance at the junctions between the top of party walls and roof structures, and to the diverse junctions of compartment walls and floors. It is a highly robust mineral wool that remains dimensionally stable at extremely high temperatures.

## Compatibility:

Roxul® Stonewool mineral wool is compatible with all materials which it is likely to come into contact in normal industrial and building applications.

## Environment:

Roxul® Stonewool mineral wool presents a very effective ecological profile in all elements of manufacture, recycling use, service life and energy efficiency of material. No CFC's or HCFC's are used in its manufacture.

## Installation Instructions:

1. Party Wall Fire Stop must be fitted as a rectangular piece, accurately butt jointed and compressed by at least 5% vertically in thickness.
2. Party Wall Fire Stop must be fitted to give a tight and accurate fit, closely following the profile of the gap.
3. Appraisal documents permit 1 or 2 layers to be used. Single layer fire stopping will always be preferred. However, double layer methods are acceptable where there is no other practical alternative. If used, 2 layers should be installed simultaneously.
4. Expansion gaps can be fire-stopped with Fire Stop Fire Damper Strip materials. The compression levels should be observed in due regard to expansion movement.
5. Installers may find simple smooth 'slip-plates' of benefit in installing Party Wall Fire Stop materials over rough surfaces.

## HEALTH & SAFETY

**Rhino Rockwool Fire Seal Batts are NOT CLASSIFIED as HAZARDOUS according to NOHSC criteria as a consequence of the following events and conclusions about the health effects of long term occupation exposure to mineral wool insulation products.**

- Over 50 years of extensive health research on Stonewool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using Stonewool.
- In March 1995 the UK Health and Safety Executive concluded that Stonewool should not be classified as a potential carcinogen.
- Under note Q of the National Occupational health and Safety Commission (NOHSC) publication "List of Designated Hazardous Substances" (NOHSC; 1005- 1999) the classification of NON-CARCINOGENIC is to apply.
- Under the European Union Criteria set out in 67/548/EEC a classification of CARC, Cat O applies, ie; "Not classifiable for carcinogenicity."
- Under World Health Organisation (WHO) and its Monographs Programme of the International Agency for Research on Cancer (IARC) it has been concluded that, Stonewools are now considered not classifiable as to carcinogenicity to humans (Group 3), It recommended that for the handling and installation of Roxul® Stonewool the internationally recognized Material Safety Data Sheet be followed; These are readily available from Australasian Insulation Supplies Pty Ltd.

# RHINO ROCKWOOL

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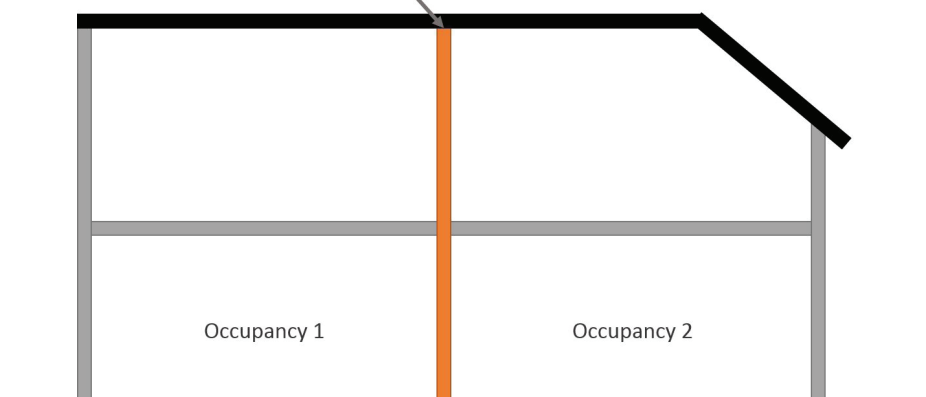
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Rhino Rockwool compressed as per engineers specification is packed to underside of roof sheeting for full width of block wall between dwellings.



# ROCKWOOL PARTY WALL SEALER



## PRODUCT DESCRIPTION

Rockwool Party Wall Sealer is a blanket used to provide fire protection in Party walls or separating walls between adjoining occupancies.



## PRODUCT PERFORMANCE PROPERTIES

### Product Description

Rockwool Party Wall Sealer is an insulation material specially formulated to provide fire protection. Party Wall Sealer is manufactured from a molten mixture of natural rock and recycled blast furnace waste products, bonded with thermosetting resin. The product has remarkable resistance to shrinkage at temperatures encountered in fire conditions.

### Benefits

- Highly durable insulation product
- Remarkable resistance to shrinkage at high temperatures encountered in fire conditions
- Easily fits into standard party wall applications
- Easily cut and formed to fit into tight applications
- Excellent and cost effective fire insulation
- Performance is not adversely effected from contact with water
- Non combustible
- Biosoluble and safe to use product

### Available Facings

Party Wall Sealer is available un-faced.

### Health and Safety

This product is manufactured from Rockwool.

### Applications

Party Wall Sealer is designed for installation between the top of a fire resistance level (FRL) party wall and the roofing membrane. Its purpose is to meet the requirements for fire resistance between adjacent tenancies, as set out in building codes and ordinances.

Multiple layers must be stacked neatly and should be installed as one unit, however a single layer of Party Wall Batt is preferred. Party Wall Batts may be stacked to fill cavities up to 135mm in height. The Party Wall Sealer original thickness must be compressed by a minimum of 10% and it is not recommended for more than 3 layers to be stacked without adequate support. Any vertical joints in a stacked batt installation should be staggered. Lengths are to be cut so to provide a tight fit in the construction gaps opening width. They must be fitted tightly and accurately, following the profile of the gap.

## SKU TABLE

Thickness (mm)	Length (mm)	Width (mm)	Rolls/ pack	Nom coverage (sq.m)/pack	Lineal meters/pack	Product Code
75	4000	300	2	2.4	8	Rock-PWS-403075

## PHYSICAL PROPERTIES

Fusion Temperature	-	In excess of 1150°C
Thermal Conductivity	-	0.037W/mK at 23°C mean temperature.
Non Combustibility	AS/NZS1530.1:1994	Non-Combustable
Fire Hazard Properties	AS/NZS 1530.3:1999	Ignitability: 0 Spread of flame: 0 Heat Evolved: 0 Smoke Developed: 0
Corrosion Resistance	BS 3958 part 5- 1969	pH 7.0-9.0; Less than 20ppm soluble chlorides;
Moisture Absorption	When placed in a controlled atmosphere of 50°C and 95% relative humidity for 96 hours.	Less than 0.2% by volume.
Sample Specification	The insulation material shall be Party Wall Sealer thick. The Party Wall Batt shall be compressed into position with a minimum 10% compression in height, fitted snugly into the cavity.	

## ROCKWOOL PARTY WALL

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# SAFETY MESH



## PRODUCT INFORMATION

Original roofing mesh that was developed and tested to provide the industry standard described in the AS/NZS 4389 and ALL State Code of Practices for Safe Working on Roofs.

Original roofing mesh that was developed and tested to provide the industry standard described in the AS/NZS 4389 and ALL State Code of Practices for Safe Working on Roofs.



## CAN BE USED ON THE FOLLOWING ROOFS

- ✓ Factories
- ✓ Shopping Centres
- ✓ Hospitals/Aged Care Facilities
- ✓ Sheds
- ✓ Warehouses
- ✓ Schools
- ✓ Office Block

## SPECIFICATIONS

	1800 Wide	2250 Wide	2400 Wide	PVC1800
Weight per 50m	24kg	29kg	31kg	28kg
Weight per metre	0.48kg	0.58kg	0.62kg	0.56kg
Sqm per roll	90	112.5	120	90
Sqm with one lap	82.5	105	112.5	82.5
Sqm with double lap	75	97.5	105	75
50m rolls per pallet	25	25	25	16

Roofing Mesh consists of 2mm galvanised wire with a tensile strength exceeding 450mpa. The longitudinal wires are spaced at 150mm centres with cross wires spaced at 300mm centres. The rolls are available either **1800mm, 2250mm or 2400mm** wide and are supplied in standard 50metre rolls or cut to the length of the roof run.

The product is also available **PVC-coated** for use in corrosive environments.

# SAFETY MESH

## THE ULTIMATE PROTECTION

Proudly Supplied by  
Thor Building Products P/L

☎ 1300 880 828

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May 2017

# ROOF RAZOR



## PRODUCT INFORMATION

Raise the roof or create an open space between two planes with the Roof Razor.

Raise the roof or create an open space between two planes with the Roof Razor. Suitable for roofing, walling and flooring this versatile and robust solution has endless possibilities. The unique design will also slice through glass wool insulation allowing it to recover to its full nominal thickness.



The unique design of the legs means that the screws not only come pre-loaded, but are also encased within the legs. The legs guide the fixings to the purlin and stop the polyester fibres from spinning or being entangled around the screws.

Key advantages of the Roof Razor system

- ✓ 68.4mm surface width
- ✓ Horizontally opposed fixing points provide a strong
- ✓ Compatible with all brands of roofing clips, and all roofing profiles
- ✓ One piece system
- ✓ 1200mm length to suit building blanket width
- ✓ Suitable for walling
- ✓ Supplied fully assembled and pre-loaded with screws
- ✓ Tiny contact areas reduce loss of R-value to less than 1%
- ✓ Legs are sharp enough to cut through the wool like a knife

## THERMAL PERFORMANCE

Voids create thermal bridging

No Fully compressed wool, total loss of R-Value less than 1%

Significantly increased R-value when using the Roof Razor System

... and it won't loosen over time

# ROOF RAZOR

## THE ULTIMATE PROTECTION

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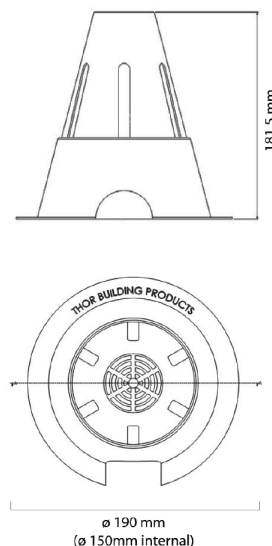
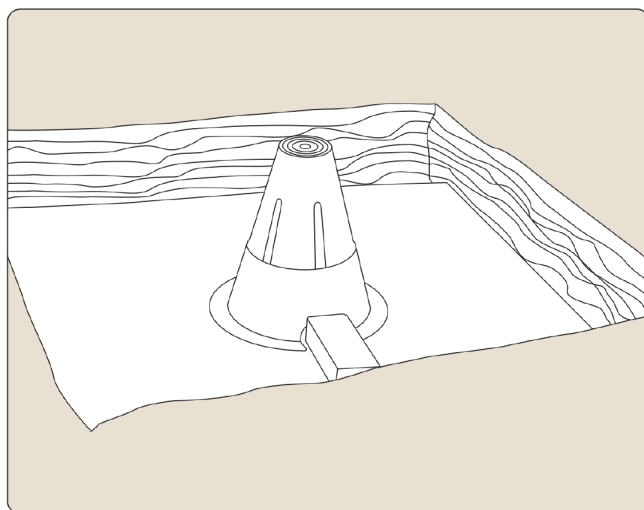
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May 2017

# DOWNLIGHT CONE



## PERFORMANCE

THOR Downlight Cone Cover complies with:

AS/NZS 3000:2007	Clause 4.5.2.3 (c) Provision of required clearances from combustible and thermal insulation material
AS/NZS 60598-1:2003	Clause 12.4 Thermal Test
AS/NZS 60598-2-2:2001	Clause 13.3 Resistance to flame and ignition (650oC Glow-wire test)

Additional testing of resistance to flame and ignition (960 C Glow-wire and Needle flame)

## MATERIAL

- ✓ Fire Retardant Nylon

## DOWNLIGHT CONE

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May 2017

# BREATHABLE MEMBRANE

## RP-51 BM



- ✓ Water resistant
- ✓ Low vapour resistance
- ✓ Air permeable
- ✓ Hydrophobically treated
- ✓ Satisfy BCA specifications and requirements
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding
- ✓ Low Flammability Index in accordance with AS 1530.2 <5
- ✓ Satisfy BCA Part 3.7.1 Fire Hazard Properties
- ✓ Satisfy Health & Safety Regulations

### PRODUCT INFORMATION

**Rhino Breathable Membrane** is designed to be used in wall and gable applications with other external cladding products to help protect your building.

Rhino Breathable Membrane has been engineered to meet the demands of the Australian climate. Non-perforated, it features micro-pores to allow breathability without compromising weather resistance, delivering a shield of protection to help against external weather penetration and internal condensation build-up.

**Beneath the surface** - An average household can generate up to 12 litre of internal condensation on a daily basis. Condensation within the wall frame can result in accelerated frame deterioration, mould infestations, sick building syndrome and costly repairs. Using the right weather barrier can help manage condensation and save you future headaches.

### RHINO BREATHABLE MEMBRANE USAGE

- Wall & gable applications in all Australian climate zones from 2 – 8
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

Recommended Applications and Properties	
	RP-51 BM
Residential/Commercial Wall & Gable Insulation	✓
Residential/Commercial Roof Insulation when supported below	✓
Duty	Medium
Vapour barrier	Low
Emittance	Non- Reflective
Water barrier	High
Flammability Index $\leq 5$	Low
Tensile Strength Machine Direction (kN/M)	min 9.5
Tensile Strength Lateral Direction (kN/M)	min 6.0
Edge Tear Resistance Machine Direction (N)	min 65
Edge Tear Resistance Lateral Direction (N)	min 65
Water Vapour Transmission Rate (Ng/Ns)	High
Availability	
Width 1350MM Length 60M Area 81M <sup>2</sup>	✓

## BREATHABLE MEMBRANE

### RP-51 BM

### THE ULTIMATE PROTECTION

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September 2016



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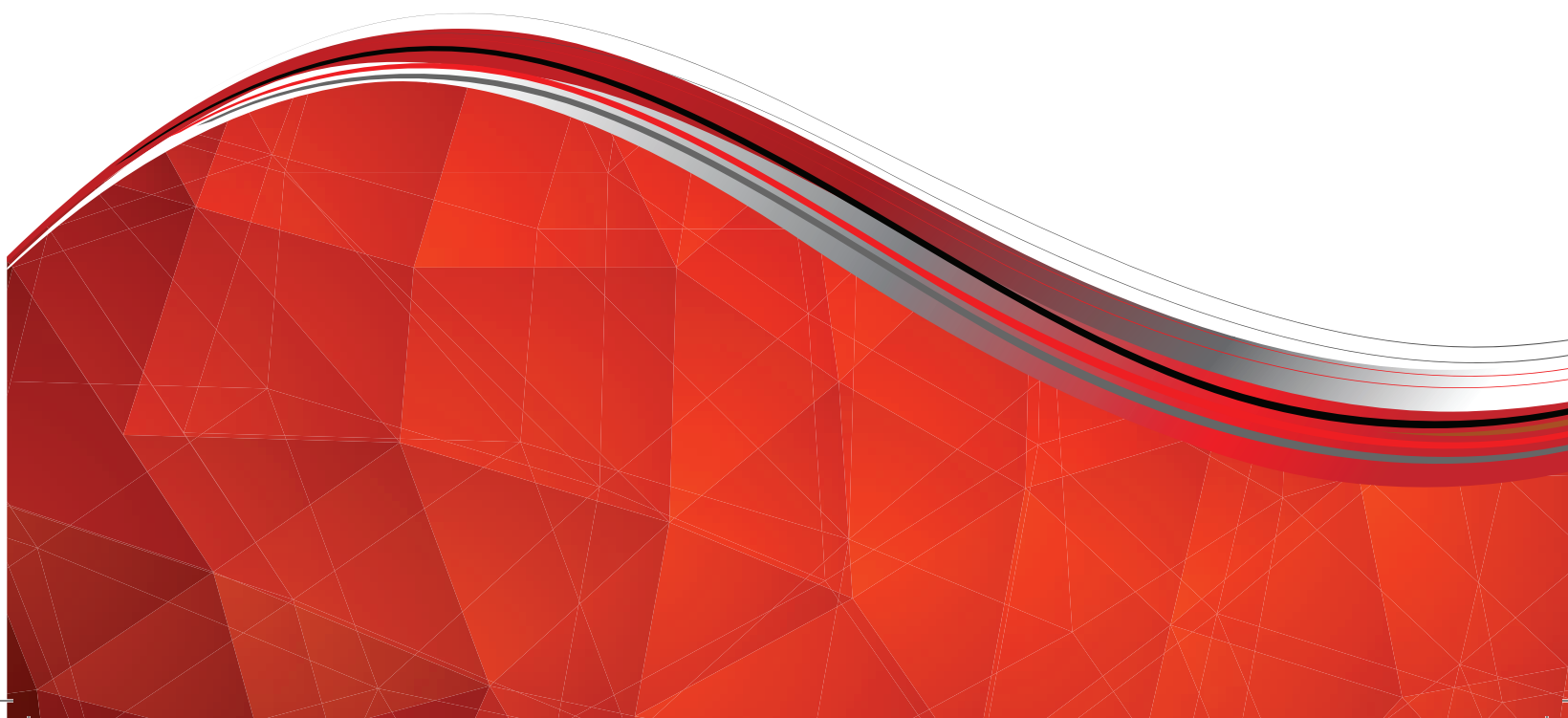
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**RHINO** RANGE  
by THOR BUILDING PRODUCTS