

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

Residential & Commercial Insulation
www.thorbuilding.com.au

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

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**RHINO is a trusted brand in the building industry known for Quality Products, Service & Support.
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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 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)	Coverage /pack (m²)	Packs/ Masterbag
Wall Batts							
RBatt-R1.5-430	1.5	75	1160 x 430	22	11.0	12.5	7
RBatt-R1.5-580			1160 x 580	22	14.8	16.7	7
RBatt-R2.0-430	2.0	90	1160 x 430	22	11.0	12.5	5
RBatt-R2.0-580			1160 x 580	18	12.1	13.6	6
RBatt-R2.0HD-420	2.0HD*	75	1160 x 420	12	5.8	7.0	6
RBatt-R2.0HD-570			1160 x 570	12	7.9	9.1	6
RBatt-R2.5HD-420	2.5HD*	90	1160 x 420	9	4.4	5.0	6
RBatt-R2.5HD-570			1160 x 570	9	6.0	6.7	6
RBatt-R2.7HD-420	2.7HD*	90	1160 x 420	5	2.4	2.8	5
RBatt-R2.7HD-570			1160 x 570	5	3.3	3.8	5
Ceiling Batts							
RBatt-R2.5-430	2.5	140	1160 x 430	16	8.0	9.0	7
RBatt-R2.5-580			1160 x 580	16	10.8	12.2	7
RBatt-R3.0-430	3.0	165	1160 x 430	16	8.0	9.0	6
RBatt-R3.0-580			1160 x 580	16	10.8	12.2	6
RBatt-R3.5-430	3.5	185	1160 x 430	16	8.0	9.0	5
RBatt-R3.5-580			1160 x 580	10	6.7	7.6	8
RBatt-R4.1-430	4.1	215	1160 x 430	10	5.0	5.6	7
RBatt-R4.1-580			1160 x 580	10	6.7	7.6	7
RBatt-R5.0-430	5.0	240	1160 x 430	8	4.0	4.5	5
RBatt-R5.0-580			1160 x 580	8	5.4	6.1	5
RBatt-R6.0-430	6.0	260	1160 x 430	6	3.0	3.4	5
RBatt-R6.0-580			1160 x 580	6	4.0	4.5	5
RBatt-R7.0-430	7.0	290	1160 x 430	4	2.0	2.3	5
RBatt-R7.0-580			1160 x 580	4	2.7	3.0	5

• (HD= High Density)

RHINO BATTS FOR THERMAL APPLICATIONS

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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.



THERMAL
COMFORT



SOUND
COMFORT



FIRE
SAFETY



ENERGY
EFFICIENT



SUSTAINABLE
PRODUCT



LIGHT
WEIGHT

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.

AS1530.1 TEST FOR COMBUSTIBILITY OF MATERIALS

In accordance with AS1530 Part 1 the glasswool in **RHINO Batts** insulation is non-combustible. The Building Code of Australia (BCA) deemed to satisfy provisions require walls important to the structural integrity of commercial buildings to be constructed wholly of materials that are non-combustible. Fire rated (FRL) walls between tenancies and common walls of multi-level apartment buildings also must be constructed wholly of materials that are non-combustible. The BCA states that if materials used in an assembly contain combustible components, then the assembly is combustible. Incorporating non-combustible **RHINO Batts** insulation into wall systems allows builders to gain acoustic and thermal benefits while still complying with the BCA requirement to maintain structural integrity and for minimising risk to occupants from smoke inhalation and fire in Class 2 to 9 buildings.

ALKALINITY

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.

HEALTH & SAFETY

RHINO Batts are not classified as carcinogenic. The International Agency for Research into Cancer (IARC) has determined that glasswool insulation products are non-carcinogenic, with no potential for causing cancer in humans.

RHINO Batts are suitable for use in homes of asthma and allergy sufferers.

This product complies with AS4859.1 – “Materials for the thermal insulation of buildings”.

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RHINO BATTS NO ADDED FORMALDEHYDE FOR THERMAL APPLICATIONS



SPECIFICATION NOTES

When specifying state the following:

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

* **NAF** = No Added Formaldehyde

PRODUCT DESCRIPTION

Rhino Batts NAF, the no added formaldehyde range of glass mineral wool insulation, employs an exciting new binder that is free of formaldehyde, phenol or any other artificial chemicals. Once installed, **Rhino Batts NAF** acts as a highly effective barrier to heat flow, keeping your building cool during hot weather. It combines cost efficiency with the highest standard of insulation performance when installed in either wood, cement board or steel stud partition and in ceiling system applications.

NO ADDED FORMALDEHYDE

Formaldehyde has traditionally been used as part of the binder in glass mineral wool insulation. Although there is no health risk with the traditional product, formaldehyde at higher levels may cause irritation and sensitivity. **Rhino Batts NAF** no added formaldehyde insulation utilizes an innovative new binder that eliminates binder-related formaldehyde emissions during manufacturing. The no added formaldehyde insulation product was tested in Air Quality Services and the product emission for formaldehyde & VOCs passed the GREENGUARD Children & Schools Criteria.

PHYSICAL CHARACTERISTICS

Application focused, **Rhino Batts NAF** is designed specifically for press-fit installation without the need for stapling or fastening. It can be fitted between timber or steel studs in a wall cavity and ceiling system applications. They resist vibration or shakedown and fit readily around uneven surfaces.

Product Code	R-Value (m²k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m²)	Coverage /pack (m²)
Wall Batts						
RBatt-R1.5-430-NAF	1.5	75	1160 x 430	25	12.5	13.8
RBatt-R1.5-580-NAF			1160 x 580	25	16.8	18.7
RBatt-R2.0-430-NAF	2.0	90	1160 x 430	21	10.5	11.6
RBatt-R2.0-580-NAF			1160 x 580	21	14.1	15.7
RBatt-R2.0HD-430-NAF	2.0HD*	75	1160 x 430	20	10.0	11.1
RBatt-R2.0HD-580-NAF			1160 x 580	14	9.4	10.4
RBatt-R2.5-HD430-NAF	2.5HD*	90	1160 x 430	11	5.5	6.1
RBatt-R2.5-HD580-NAF			1160 x 580	11	7.4	8.2
RBatt-R2.7-HD430-NAF	2.7HD*	90	1160 x 430	8	4.0	4.4
RBatt-R2.7-HD580-NAF			1160 x 580	7	4.7	5.2
Ceiling Batts						
RBatt-R2.5-430-NAF	2.5	120	1160 x 430	19	9.5	10.5
RBatt-R2.5-580-NAF			1160 x 580	19	12.8	14.2
RBatt-R3.0-430-NAF	3.0	140	1160 x 430	19	9.5	10.5
RBatt-R3.0-580-NAF			1160 x 580	15	10.1	11.2
RBatt-R3.5-430-NAF	3.5	165	1160 x 430	14	7.0	7.7
RBatt-R3.5-580-NAF			1160 x 580	12	8.1	8.9
RBatt-R4.1-430-NAF	4.1	195	1160 x 430	12	6.0	6.6
RBatt-R4.1-580-NAF			1160 x 580	10	6.7	7.5
RBatt-R5.0-430-NAF	5.0	236	1160 x 430	8	4.0	4.4
RBatt-R5.0-580-NAF			1160 x 580	8	5.4	5.9
RBatt-R6.0-430-NAF	6.0	278	1160 x 430	6	3.0	3.3
RBatt-R6.0-580-NAF			1160 x 580	6	4.0	4.5

Packs per Masterbag: 8

• (HD= High Density)

IMPROVES INDOOR AIR QUALITY

Improves Indoor Air Quality. Formaldehyde free binder reduces the overall formaldehyde exposure. No added formaldehyde insulation means a better smelling indoor environment and less formaldehyde in the air.

**RHINO
BATTS**
NO ADDED
FORMALDEHYDE
FOR THERMAL
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June 2020



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WEIGHT

RHINO BATTS NO ADDED FORMALDEHYDE FOR THERMAL APPLICATIONS



SPECIFICATION NOTES

When specifying state the following:

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

* NAF = No Added Formaldehyde

SUSTAINABLE PRODUCT

Satisfying the growing indoor air quality (IAQ) needs, uses no ozone depleting products (ODP) in manufacture and has low volatile organic compounds (VOCs) content.

MOISTURE ABSORPTION

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

AS1530.1 TEST FOR COMBUSTIBILITY OF MATERIALS

Testing conducted by CSIRO in accordance with AS1530 Part 1 concluded that the glasswool in **RHINO Batts NAF** insulation are non-combustible. The Building Code of Australia (BCA) deemed to satisfy provisions require walls important to the structural integrity of commercial buildings to be constructed wholly of materials that are non-combustible. Fire rated (FRL) walls between tenancies and common walls of multi-level apartment buildings also must be constructed wholly of materials that are non-combustible. The BCA states that if materials used in an assembly contain combustible components, then the assembly is combustible. Incorporating non-combustible **RHINO Batts NAF** insulation into wall systems allows builders to gain acoustic and thermal benefits while still complying with the BCA requirement to maintain structural integrity and for minimising risk to occupants from smoke inhalation and fire in Class 2 to 9 buildings.

ALKALINITY

Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition.

MAXIMUM SERVICE TEMPERATURE

Rhino Batts NAF have a maximum service temperature of 340°C.

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RHINO PARTITION BATTS/ROLLS COMMERCIAL ACOUSTIC & THERMAL INSULATION



SPECIFICATION NOTES

When specifying state the following:

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

PRODUCT DESCRIPTION

RHINO Partition Batts/Rolls 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/Rolls** 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/Rolls feature a soft feel for more comfortable handling.

BATTS

Product code	Material R-value (m²k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m²)
RHINO Partition Batts 11kg					
RPBatt-50-11-1245	R1.0	50	1200 x 450	32	17.28
RPBatt-50-11-1260			1200 x 600	24	17.28
RPBatt-75-11-1245	R1.7	75	1200 x 450	16	8.64
RPBatt-75-11-1260			1200 x 600	16	11.52
RHINO Partition Batts 14kg					
RPBatt-50-14-1245	R1.2	50	1200 x 450	24	12.96
RPBatt-50-14-1260			1200 x 600	24	17.28
RPBatt-75-14-1245	R1.8	75	1200 x 450	16	8.64
RPBatt-75-14-1260			1200 x 600	16	11.52

ROLLS

Product code	Material R-value (m ² k/w)	Thickness (mm)	Batt size (mm)	Batts/pack	Area/pack (m ²)
RHINO Partition Rolls 11kg					
RPRoll-50-11-16245	R1.0	50	16200 x 450	3	21.9
RPRoll-50-11-16260			16200 x 600	2	19.4
RPRoll-75-11-13545	R1.7	75	13500 x 450	3	18.2
RPRoll-75-11-13560			13500 x 600	2	16.2
RHINO Partition Rolls 14kg					
RPRoll-50-14-16245	R1.2	50	16200 x 450	3	21.9
RPRoll-50-14-16260			16200 x 600	2	19.4
RPRoll-75-14-13545	R1.8	75	13500 x 450	3	18.2
RPRoll-75-14-13560			13500 x 600	2	16.2

ACOUSTIC PERFORMANCE

Sound absorption results tested in accordance with AS/ISO 354-2006. NRC rated using ASTM C423-90A

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

ADDITIONAL DATA

Maximum Service Temperature	-	300°C (suitable where a long term surface operating temperature ≥90°C is required for insulation around heat generating equipment.)
Fire Hazard Properties	When tested in accordance to AS/NZS 1530.3	<ul style="list-style-type: none"> • Ignitability: 0 • Heat Evolved: 0 • Spread of Flame: 0 • Smoke Developed: 1
Non-Combustibility	When tested to AS 1530.1	Non-Combustible

RHINO PARTITION BATTS/ROLLS

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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.

PRODUCT DESCRIPTION

RHINO SOUND BATT is a high density acoustic insulation product specifically made for wall, ceiling and midfloor applications where superior acoustic performance is required. It is manufactured from a specially formulated mineral wool and bonded with a thermosetting resin.

APPLICATIONS

The product comes in a range of thicknesses and densities to suit most applications. The batts are designed to suit standard stud or joist centres of 450mm and 600mm. For timber studs the 430mm and 580mm products should be used.

RHINO SOUND BATT is typically used in internal walls in residential homes as a high density acoustic insulation to reduce noise transfer between rooms and will assist in creating a quieter home. **RHINO SOUND BATT** can be used in the midfloors of two storey homes to reduce noise travelling between upstairs and downstairs.

BENEFITS

- Reduce noise transfer between rooms
- Helps isolate rooms for a quieter home
- Provides thermal insulation, reducing your energy use
- Limit noise transfer in 2 storey homes between floors
- Non Combustible
- Backed by a 70 year product warranty

Product Code	R-Value (m ² k/w)	Thickness (mm)	Batt size (mm)	Batts/ pack	Area/pack (m ²)	Coverage/ pack (m ²)	Packs per Multi
RSBatt-R1.7-60-1143	R1.7	60	1160 x 430	11	5.5	6.2	6
RSBatt-R1.7-60-1158			1160 x 580		7.4	8.4	6
RSBatt-R2.0-70-1143	R2.0	70	1160 x 430	9	4.5	5.1	6
RSBatt-R2.0-70-1158			1160 x 580		6.1	6.8	6
RSBatt-R2.0*-70-1260			1200 x 600		6.5	6.5	6
RSBatt-R2.5-88-1143	R2.5	88	1160 x 430	7	3.5	3.9	6
RSBatt-R2.5-88-1158			1160 x 580		4.7	5.3	6
RSBatt-R3.1-110-1143	R3.1	110	1160 x 430	6	3.0	3.4	6
RSBatt-R3.1-110-1158			1160 x 580		4.0	4.5	6

* suitable for steel frame construction

ACOUSTIC PERFORMANCE

Sound Absorption results tested in accordance with AS/ISO 354-2006 and NRC rated in accordance with ASTM C423-90A. The sound absorption coefficient (α_w) as per AS ISO 11654-1997 is: $\alpha_w = 1.00$

Product	Thickness	Frequency (Hz)						NRC
		125	250	500	1000	2000	4000	
R1.7	60mm	0.29	0.65	1.11	1.15	1.05	0.94	1.00
R2.0	70mm	0.27	0.91	1.12	1.01	1.02	0.98	1.00
R2.5	88mm	0.38	1.04	1.18	1.08	1.05	0.97	1.10
R3.1	110mm	0.54	1.24	1.20	1.09	1.06	1.11	1.15

HEALTH & SAFETY

RHINO SOUND BATTS have been assessed in accordance with National Occupational Health and Safety Commission (NOHSC) criteria and as a result this product is not classified as hazardous. **RHINO SOUND BATTS** will not burn and are made from FBS-1 bio-soluble glasswool which is listed on the International Agency for Research on Cancer (IARC) as Category 3 – not classifiable as to its carcinogenicity to humans.

RHINO SOUND BATT is made in Australia and complies with AS/NZS 4859.1 “materials for the thermal insulation of buildings.”

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September 2020

RHINO BLANKET



- ✓ Excellent thermal & acoustic insulation.
- ✓ Can be used with timber & metal frame.
- ✓ Superior finished aesthetics.
- ✓ Cost-effective.
- ✓ Non-combustible blanket fibres.
- ✓ TRADE preferred
- ✓ Group 1 Fire Assessment Classification (Foil Faced Blanket)
- ✓ 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 manufactured by spinning molten glass, containing up to 65% recycled content and bonded together using a thermosetting resin.

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

Fire Assessment Classification GROUP 1

Tested in accordance with AS/ISO 9705 & AS5637.1

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 ≤ 5 . In areas where BAL-FZ is a requirement higher density glasswool or mineral wool is required and available upon request.

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).

RHINO BLANKET

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RHINO BLANKET



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.

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 ² K/W)	Dimensions* (mm)	Rolls/pack	m ² /pack
RB-R1.3-55	55	1.3	1200 x 15000	1	18
RB-R1.8-75	75	1.8	1200 x 15000	1	18
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
RB-R4.3-175	175	4.3	1200 x 6500	1	7.8

UNFACED

Product Code	Thickness (mm)	R-Value (m ² K/W)	Dimensions* (mm)	Rolls/pack	m ² /pack
URB-R1.3-36	55	1.3	1200 x 30000	1	36
URB-R1.8-30	75	1.8	1200 x 25000	1	30
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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Nov 2019

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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 $< 50^{\circ}\text{C}$) requires roof to be well ventilated and moist air from within the dwelling to be exhausted out into the atmosphere.

FACING OPTIONS - The 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

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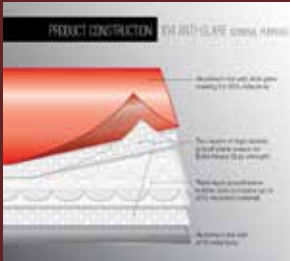
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RHINO CELL 104 AG



Product Specification	
Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	4.0mm (Nominal)
Area	30m ²
Roll Weight	11.5kg (Approx.)
Product Code	RC-104 AG



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 (≤ 5) and achieves a Thermal Break of R-0.10.

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 ² K/W)	Dimensions (m)	m ² /pack
RC-104 AG	Rhino Cell Antiglare	4mm	R-0.10	1.35 (+0.15m flap) X 22.25	30

FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS 4200.1

This product should be installed in accordance with AS 4200.2.

Test	Description	Parameter
ASTM E - 408	Emissivity	Reflective Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability Index	Low (≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
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 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Control Classification	Water Barrier
ASTM E-96	Vapour Classification (VCM)	Class 2, Vapour Barrier
AS 4201.5	Electrical Conductivity	Conductive

THERMAL PERFORMANCE

Application		Winter	Summer
Roof	Flat Metal roof, suspended ceiling, 300mm min. reflective air space	1.2	3.5
	Pitched metal roof 22° flat ceiling, unventilated attic space	1.3	2.2
	Pitched metal roof 22° flat ceiling, ventilated attic space	1.1	2.5
	Flat Metal Roof with no ceiling (Warehouse)	0.8	1.7
Wall	Brick Veneer Wall	2.1	1.9
	Double Brick Wall	2.1	2.0

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. 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.

BAL (BUSHFIRE ATTACK LEVEL) RATING

Roof	Low (BAL 40)
Wall	Low (BAL FZ)

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.

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RHINO
CELL
104 AG

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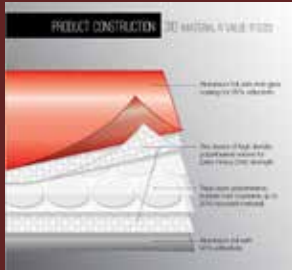
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RHINO CELL 310 AG



Product Specification	
Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	11mm
Area	30m ²
Roll Weight	12.5kg (Approx.)
Product Code	RC-310 AG



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 ² K/W)	Dimensions (m)	m ² /pack
RC-310 AG	Rhino Cell Antiglare	11mm	R-0.20	1.35 x 22.25	30

FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS4200.1

This product should be installed in accordance with AS 4200.2.

Test	Description	Parameter
ASTM E - 408	Emissivity	Reflective Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability Index	Low (≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
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 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Control Classification	Water Barrier
ASTM E-96	Vapour Classification (VCM)	Class 2, Vapour Barrier
AS 4201.5	Electrical Conductivity	Conductive

THERMAL PERFORMANCE

Application		Winter	Summer
Roof	Flat Metal roof, suspended ceiling, 300mm min. reflective air space	1.3	3.6
	Pitched metal roof 22° flat ceiling, unventilated attic space	1.4	2.3
	Pitched metal roof 22° flat ceiling, ventilated attic space	1.2	2.6
Wall	Metal clad wall, 100mm min. reflective air space	1.3	1.2

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. 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.

BAL (BUSHFIRE ATTACK LEVEL) RATING

Roof	Low (BAL 40)
Wall	Low (BAL FZ)

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.

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**RHINO
CELL
310 AG**

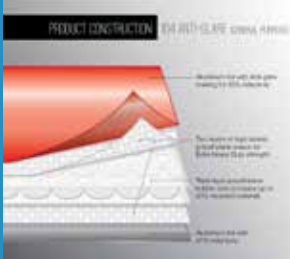
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Product Specification	
Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	4.0mm (Nominal)
Area	30m ²
Roll Weight	11.5kg (Approx.)
Product Code	RSHD



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.

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

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

Product Code	Description	Thickness (mm)	R-Value (m ² K/W)	Dimensions (m)	m ² /pack
RSHD	Rhino Shed	4mm	R-0.10	1.35 (+0.15m flap) x 22.25	30

FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS 4200.1

This product should be installed in accordance with AS 4200.2.

Test	Description	Parameter
ASTM E - 408	Emissivity	Reflective Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability Index	Low (≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
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 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Control Classification	Water Barrier
ASTM E-96	Vapour Classification (VCM)	Class 2, Vapour Barrier
AS 4201.5	Electrical Conductivity	Conductive

THERMAL PERFORMANCE

Application		Winter	Summer
Roof	Flat Metal roof, suspended ceiling, 300mm min. reflective air space	1.2	3.5
	Pitched metal roof 22° flat ceiling, unventilated attic space	1.3	2.2
	Pitched metal roof 22° flat ceiling, ventilated attic space	1.1	2.5
	Flat Metal Roof with no ceiling (Warehouse)	0.8	1.7
Wall	Brick Veneer Wall	2.1	1.9
	Double Brick Wall	2.1	2.0
	Shed metal clad wall, 100mm air gap	1.2	1.1

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. 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.

BAL (BUSHFIRE ATTACK LEVEL) RATING

Roof	Low (BAL 40)
Wall	Low (BAL FZ)

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.

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RHINO SHED

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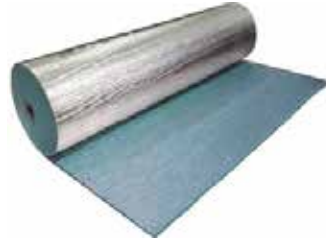
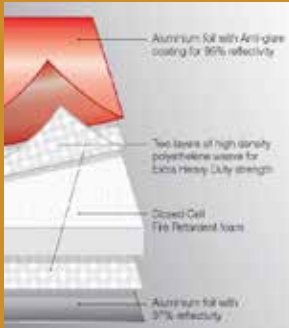
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RHINO FOAM 80 THERMAL BREAK



PRODUCT DESCRIPTION

Rhino Foam 80 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 80 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 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 Specification	
Width	1350mm (+0.15m Flap)
Length	22.25m
Thickness	8.0mm (Nominal)
Area	30m ²
Roll Weight	15kg (Approx.)
Product Code	RF-80AG

Product Code	Description	Thickness (mm)	R-Value (m ² K/W)	Dimensions (m)	m ² /pack
RF-80 AG	Rhino Foam 80 AG	8.0mm	R-0.20	1350mm x 22.25m (+0.15m flap)	30

FINISHED PRODUCT PERFORMANCE

Compliance to AS 4859.1 & AS 4200.1

This product should be installed in accordance with AS 4200.2.

Test	Description	Parameter
ASTM E - 408	Emissivity	Reflective Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability Index	Low (≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
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 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Control Classification	Water Barrier
ASTM E-96	Vapour Classification (VCM)	Class 2, Vapour Barrier
AS 4201.5	Electrical Conductivity	Conductive

THERMAL PERFORMANCE

Application		Winter	Summer
Roof	Pitched Metal Roof, flat ceiling (Fully-Sealed Airspace between Metal Roof & RF-80 AG)	1.3	2.8
	Pitched Metal Roof (22° Warehouse) (Fully-Sealed Airspace between Metal Roof & RF-80 AG)	1.0	1.7
	Flat Metal Roof, suspended ceiling (Fully-Sealed Airspace between Metal Roof & RF-80 AG)	1.4	3.9
	Flat Metal Roof (Warehouse) (Fully-Sealed Airspace between Metal Roof & RF-80 AG)	1.0	2.1
Wall	Metal Clad Wall	1.1	1.1
	Metal Clad Wall & Plasterboard Lining	1.7	1.8
	Double Brick Wall	2.1	2.1
	Brick Veneer Wall	2.0	2.0

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. 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.

BAL (BUSHFIRE ATTACK LEVEL) RATING

Roof	Low (BAL 40)
Wall	Low (BAL FZ)

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.

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RHINO FOAM 80
THERMAL
BREAK

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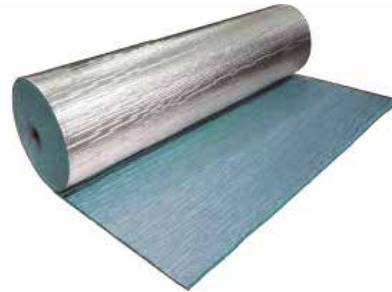
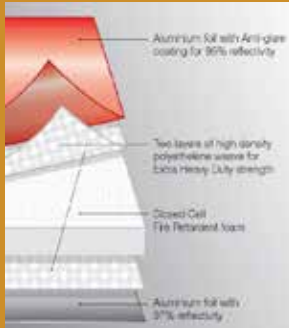
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RHINO FOAM 40 ANTI-GLARE



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

Product Code	Description	Thickness (mm)	R-Value (m ² K/W)	Dimensions (m)	m ² /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 & AS 4200.1

This product should be installed in accordance with AS 4200.2.

Test	Description	Parameter
ASTM E - 408	Emissivity	Reflective Silver 0.03 / Anti-Glare 0.05
AS/NZS 4859.1 App - I	Surface Corrosion	Pass
ASTM 1530.2	Flammability Index	Low (≤ 5)
ASTM 1530.3	Early Fire Hazard	0/0/0/1
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 4201.1	Resistance to Dry Delamination	Pass
AS 4201.2	Resistance to Wet Delamination	Pass
AS 4201.4	Water Control Classification	Water Barrier
ASTM E-96	Vapour Classification (VCM)	Class 2, Vapour Barrier
AS 4201.5	Electrical Conductivity	Conductive

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

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. 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.

BAL (BUSHFIRE ATTACK LEVEL) RATING

Roof	Low (BAL 40)
Wall	Low (BAL FZ)

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.

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AUSTRALIAN MADE
NCC/BCA Compliant

RHINO FOAM 40
ANTI-GLARE

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RHINO BREATHABLE MEMBRANE

RP-51-BM-L RESIDENTIAL WALL



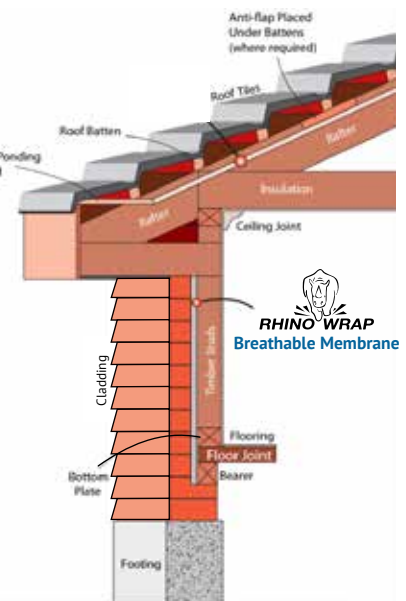
- ✓ Water Barrier
- ✓ Vapour Permeable
- ✓ Satisfy BCA specifications and requirements
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding
- ✓ Low Flammability Index in accordance with 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 residential timber and steel frame wall construction behind external cladding products.

Rhino Breathable Membrane has been engineered to meet the demands of the Australian climate. Non-perforated, it features micro-pores to allow vapour transmission without compromising weather resistance, delivering a shield of protection to help against external weather penetration whilst also alleviating 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 vapour permeable weather barrier can help manage condensation and save you future headaches.



RHINO BREATHABLE MEMBRANE USAGE

- Residential wall applications in Australian climate zones 2-8
- Refer cladding manufacturers guidelines
- Should be installed in accordance with AS 4200.2
- Install external cladding within 4 weeks of membrane installation
- Ensure membrane surface is dry at time of cladding installation
- Good practice to separate membrane from external cladding by a cavity to allow for drainage of any moisture that has penetrated the exterior cladding.
Note – this is especially important for vapour tight or non-absorbent claddings e.g. metal
- Insulation installed behind the breathable membrane should not create a drainage restriction within the cavity

RHINO BREATHABLE
MEMBRANE
RP-51-BM-L
RESIDENTIAL WALL

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RHINO BREATHABLE MEMBRANE

RP-51-BM-L RESIDENTIAL WALL



Recommended Applications and Technical Properties			Reference	RP-51-BM-L
Residential Wall				✓
Duty			AS/NZS 4200.1	Light Wall
Vapour Permeability			ASTM E96	1.010µg/N.s
Vapour Resistance			ASTM E96	1.0MN.s/g
Vapour Control Membrane (VCM) Classification			ASTM E96	Class 3, Vapour Permeable
Emittance			AS/NZS 4201.5	Non-Reflective
Water Control Classification			AS/NZS 4201.4	Water Barrier
Surface Water Absorbency			AS/NZS 4201.6	High
Resistance to Dry Delamination			AS/NZS 4201.1	Pass
Resistance to Wet Delamination			AS/NZS 4201.2	Pass
Shrinkage			AS/NZS 4201.3	<0.5%
Tensile Strength Machine Direction (kN/m)			AS1301.448	N/A
Tensile Strength Lateral Direction (kN/m)			AS1301.448	N/A
Edge Tear Resistance Machine Direction (N)			TAPPI T470	45
Edge Tear Resistance Lateral Direction (N)			TAPPI T470	45
Burst Strength (N)			AS/NZS 2001.2.19	>200
Flammability Index			AS/NZS 1530 Part 2	Low (≤5)
Electrical Conductivity			AS/NZS 4201.5	Non-Conductive
Availability				RP-51-BM-L
Width 1350mm	Length 30m	Area 40.5m ²	Weight 4.4kg	RP-51BM-L-30
Width 1350mm	Length 50m	Area 67.5m ²	Weight 7.1kg	RP-51BM-L-50
Width 1500mm	Length 30m	Area 45.0m ²	Weight 4.8kg	RP-51BM-L-30-15
Width 1500mm	Length 50m	Area 75.0m ²	Weight 7.9kg	RP-51BM-L-50-15

THIS PRODUCT MEETS THE REQUIREMENTS OF AS4200.1	
Product Identifier	RP-51BM-L
Duty	Light Wall
Vapour Classification	Class 3 Vapour Permeable
Vapour Permeability	1.010ug/N.s
Water Control Classification	Water Barrier
Flammability Index	Low ≤5
Electrical Conductivity	Non-conductive
Emittance	Non-reflective

Classifications in accordance with AS4200.1
This product should be installed in accordance with AS4200.2

RHINO BREATHABLE MEMBRANE RP-51-BM-L RESIDENTIAL WALL

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Jan 2020

RHINO PRODUCT RANGE

- Rhino Roofing Blanket
- Rhino Wall & Ceiling Batts
- Rhino Partition Batts
- Rhino Cell
- Rhino Foam
- Rhino Tile Roofing
- Rhino Metal Roofing
- Rhino Foil & Breather
- Rhino Wrap & Breather
- Rhino Breathable Membrane

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BREATHABLE MEMBRANE TAPE

BMT-7725



INTRODUCTION

Rhino Breathable Membrane Tape is a single sided powerful adhesive tape with high initial and permanent grab. Ideal for sealing of vapour permeable membranes including sealing of penetrations such as windows.

APPLICATIONS

- Rhino Vapour Permeable Membrane sealing of joints
- Other PA, PE and PP membranes including those laminated to aluminium foil
- Paper and paper coated product
- Wood
- Glass
- Metal

PRODUCT DESCRIPTION

PP NON WOVEN(50) + Double sided adhesive with White silicon paper.

Specification	Value
Product Code	BMT-7725
Colour	White
Width X Length	72MM X 25LMT (1ROLL)
Adhesive Carrier	Tissue (13g/m ²)
Adhesive Type	Acrylic
Total thickness	420mic
Liner	White silicon paper (120g/m ²)
Adhesive Properties	Powerful Adhesive
Peel adhesion	≥ 16N/24mm
Temperature Resistance	-40°C / + 100°C (short term)
Application Temperature	Min. + 10°C
Outdoor Exposure	2 months
Ageing resistance	Very good
Resistance to condensation	Very good
Shelf life	1 year (23°C & 60% humidity)

BREATHABLE
MEMBRANE
TAPE
BMT-7725

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RHINO PRODUCT RANGE

- Rhino Roofing Blanket
- Rhino Wall & Ceiling Batts
- Rhino Partition Batts
- Rhino Cell
- Rhino Foam
- Rhino Tile Roofing
- Rhino Metal Roofing
- Rhino Foil & Breather
- Rhino Wrap & Breather
- Rhino Breathable Membrane

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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 a pliable building membrane behind brick veneer / other claddings with a drained cavity. 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.

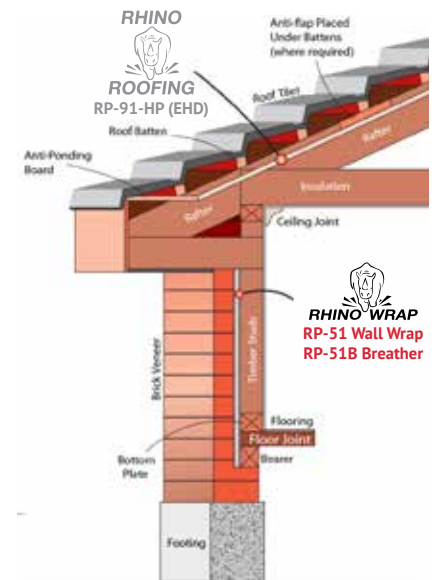
RHINO WRAP USAGE

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 Classification (VCM)			Class 1, Vapour Barrier	Class 3, Vapour Permeable
Emittance			Reflective (≤0.05)	Reflective (≤0.05)
Water Control Classification			Water Barrier	Non-Water Barrier
Flammability Index			Low (≤5)	Low (≤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
Electrical Conductivity			Conductive	Conductive
Availability				
Width 1350mm	Length 30m	Area 40.5m ²	✓	✓
Width 1350mm	Length 60m	Area 81m ²	✓	✓
Width 1500mm	Length 30m	Area 45m ²	✓	✓
Width 1500mm	Length 60m	Area 90m ²	✓	✓

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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 a pliable building membrane behind brick veneer / other claddings with a drained cavity. 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.

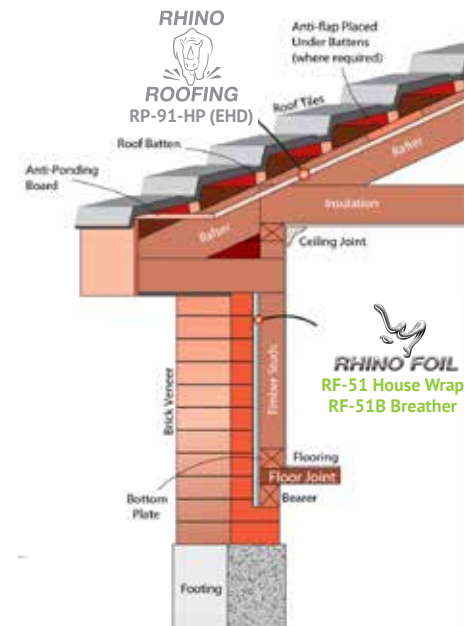
RHINO FOIL USAGE

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 Classification (VCM)	Class 1, Vapour Barrier	Class 3, Vapour Permeable		
Emittance	Reflective (≤0.05)	Reflective (≤0.05)		
Water Control Classification	Water Barrier	Non-Water Barrier		
Flammability Index	Low (≤5)	Low (≤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		
Electrical Conductivity	Conductive	Conductive		
Availability				
Width 1350mm Length 30m Area 40.5m ²	✓	✓		
Width 1350mm Length 60m Area 81m ²	✓	✓		

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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

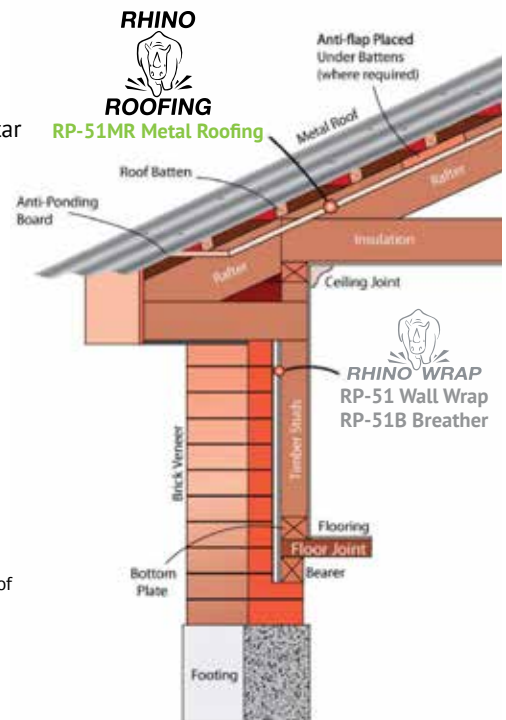
In all applications:

- 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 - 51MR

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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 ²
Width 1350mm	Length 60m	Area 81m ²

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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

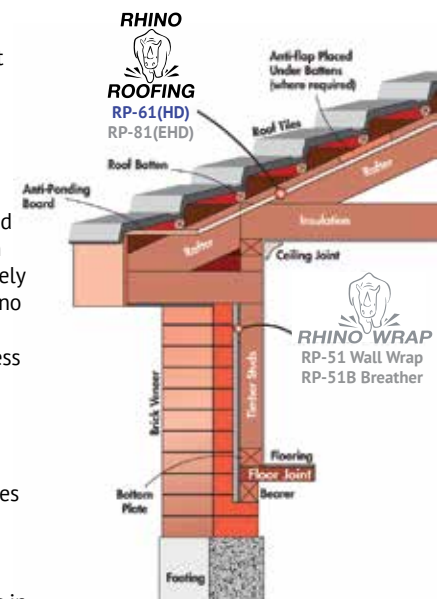
Rhino Roofing Products are specifically manufactured to the highest industry standards.

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		
Tensile strength - Cladding		High
Durability - Cladding		High
Impact Resistant - Cladding		High
Residential & Commercial Roof Insulation		✓
Flame Retardant - Cladding		✓
Duty		Heavy
Vapour Classification		Class 1
Emittance		Reflective
Water Control Classification		Water Barrier
Flammability Index		Low (≤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 ²

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 R P - 6 1

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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

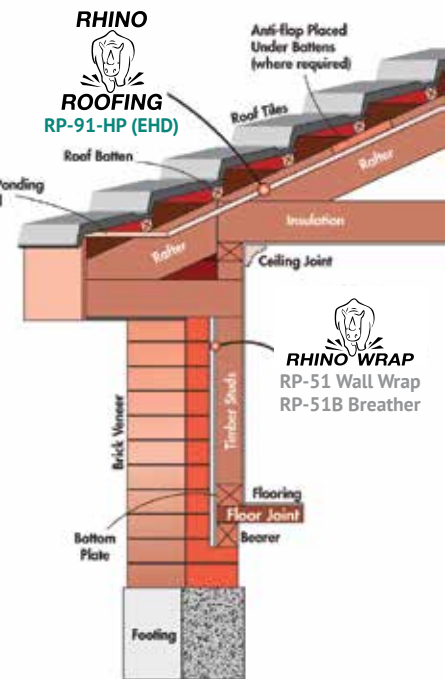
Rhino Roofing Products are specifically manufactured to the highest industry standards.

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 Classification	Class 1
Emittance	Reflective
Water Control Classification	Water Barrier
Flammability Index	Low (≤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 45m ²	

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.

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RHINO ROOFING RP-91 HIGH PERFORMANCE

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RHINO ROOFING

RP-101



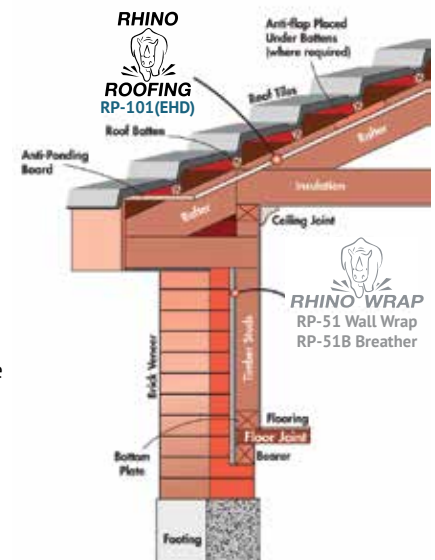
- ✓ Satisfy BCA specifications and requirements for Reflective Foil Laminates
- ✓ Complies with the specifications and requirements of AS/NZS 4200.1 for "Pliable Building Membranes" which is a manual recognised by the BCA Part 3.5 Roof and Cladding.
- ✓ Low Flammability Index in accordance with AS 1530.2 < 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 45m ²

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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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.

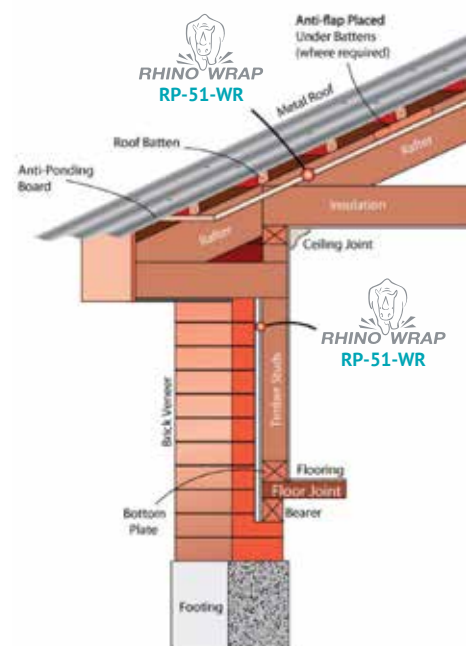
RHINO MULTI PURPOSE WRAP USAGE

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

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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 ²
Width 1350mm	Length 60m	Area 81m ²

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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

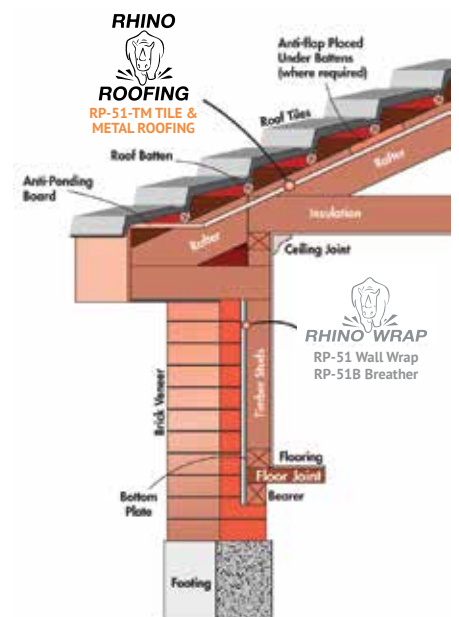
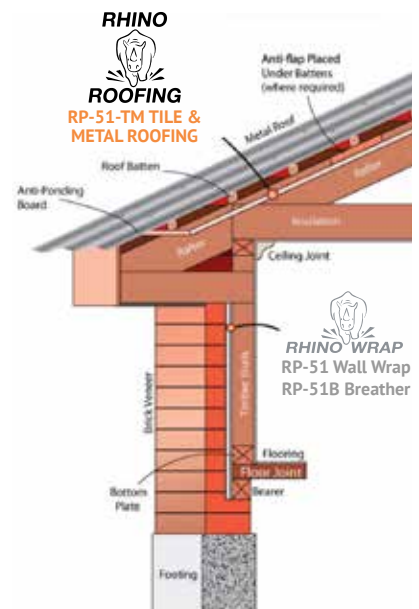
In all applications:

- 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.



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 1500mm	Length 30m	Area 45m ²
Width 1500mm	Length 20m	Area 30m ²

RHINO

TILE & METAL ROOFING RP-51TM

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RHINO PRIMO WRAP

REFLECTIVE MICRO PERFORATED

RP-51-PM



- ✓ 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 Primo Wrap RP-51-PM is installed as pliable building membrane behind brick veneer / other claddings with a drained cavity. Our specialised manufacturing process bonds together Aluminium Foil to a high strength reinforcing Polymer Mesh using a flame retardant adhesive. Rhino Primo Wrap may be used as a substitute for non-permeable vapour barrier wall wraps.

RHINO PRIMO WRAP USAGE

In all applications:

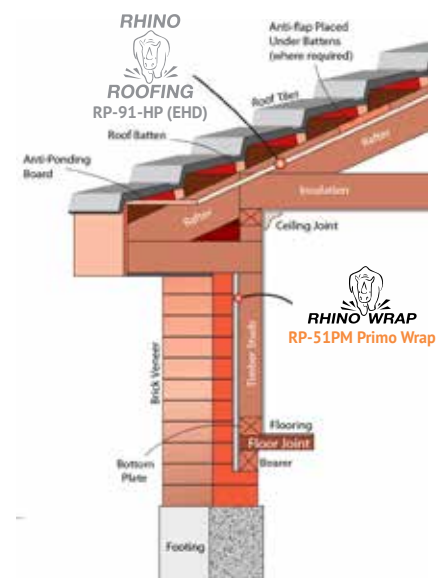
- External cladding should be installed A.S.A.P
- No contact is to be made with wet concrete or mortar
- Store in dry area, weather proofed only after installation
- Shrinkage of up to 2% can be expected

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

ELECTRICAL SAFETY WARNING - This product contains aluminium foil which conducts electricity. To avoid electrocution, care should be taken to ensure that this product or conductive fasteners used to secure this product, do not come into contact or close proximity with electrical wiring during installation or use. This product should not be installed in an existing structure in a horizontal orientation such as a ceiling or sub-floor application due to the presence of electrical wiring in the framing.

Recommended Applications and Properties		Reference	RP-51-PM
Duty		AS/NZS 4200.1	Medium
Vapour Permeability (µg /N.s)		ASTM E96	0.106
Vapour Control Membrane Classification (VCM)		ASTM E96	Class 2, Vapour Barrier
Emittance		AS/NZS 4201.5	Reflective (≤0.05)
Water Control Classification		AS/NZS 4201.4	Water Barrier
Flammability Index		AS/NZS 1530.2	Low (≤5)
Tensile Strength Machine Direction (kN/M)		AS1301.448	min 9.5
Tensile Strength Lateral Direction (kN/M)		AS1301.448	min 6.0
Edge Tear Resistance Machine Direction (N)		TAPPI T470	min 65
Edge Tear Resistance Lateral Direction (N)		TAPPI T470	min 65
Emittance of Reflective Face		AS/NZS 4201.5	max 0.05
Electrical Conductivity		AS/NZS 4201.5	Conductive
Availability			Product Code
Width 1350mm	Length 30m	Area 40.5m ²	RP-51PM-30
Width 1350mm	Length 60m	Area 81m ²	RP-51PM-60
Width 1500mm	Length 30m	Area 45m ²	RP-51PM-30-15
Width 1500mm	Length 60m	Area 90m ²	RP-51PM-60-15



RHINO
PRIMO WRAP
RP-51-PM

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THERMAL PERFORMANCE

	Summer	Winter
Fibre Cement Wall Direct Fix (70mm stud)	R _t 0.79	R _t 0.89
Fibre Cement Wall Batten Fix (70mm stud with 25mm batten)	R _t 0.97	R _t 1.1
Brick Cavity Wall (90mm stud with 40mm cavity)	R _t 1.2	R _t 1.3

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RHINO SOUND LAG



PRODUCT DESCRIPTION

Rhino Sound Lag. Acoustic Insulation for waste pipes.

SPECIFICATION NOTES

When specifying state the following:

- Product name **Rhino Sound Lag**
- Density-5kg/m²
- 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 Sound Lag is a highly flexible foam-based composite acoustic pipe lagging product. It was developed to reduce breakout noise from wastewater pipes, valves, fan housings and ductwork in commercial, industrial and residential buildings.

The product range complies to international fire standards to meet fire safety demands in buildings. All Rhino Sound Lag products are also equipped with a aluminium foil facing that achieves a Class 0 rating.

Rhino Sound Lag provides an optimal soundproofing solution for those seeking compliance to BCA (Building Code of Australia) F5.6 requirements for habitable and nonhabitable rooms. Based on test results, Rhino Sound Lag can offer a significantly higher performance of up to 5 dB(A) compared to low noise pipe products especially in areas with no ceiling or with penetrations.

The highly dense flexible mass layer delivers excellent sound reduction properties. Rhino Sound Lag's decoupling layer breaks the vibration path between the substrate and the mass barrier, allowing the vinyl wrap to remain flexible - optimising performance.

APPLICATIONS

- Wastewater pipes
- Hydraulic pipes
- Compressor and pump wraps
- HVAC
- Fan housings

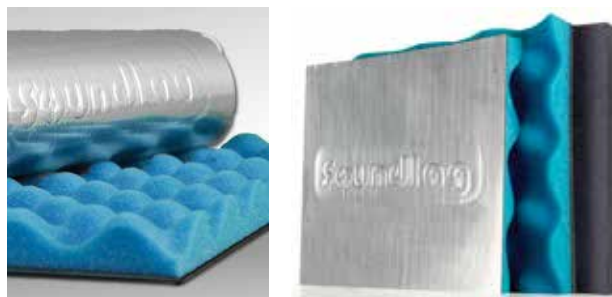
FEATURES

- Better performance - up to 5 dB(A) with Rhino Sound Lag compared to low noise pipe products without ceiling or areas with penetrations
- Class 0 aluminium foil facing
- Tested to AS/NZS 1530.3 with excellent flame resistance
- Rhino Sound Lag range complies to international fire standards
- Reduces the noise in hydraulic and wastewater pipes by up to 25.2 dB(A)
- Broad operating temperature range
- Free from odour producing oils and bitumen
- Contain no ozone depleting substances
- Choice of blue convoluted foam, grey plain foam, polyester or glass wool
- Simple to install - can be cut to size
- Easy to bond - matching Tape ALR or equivalent
- Endorsed and tested by leading acoustic consultants and engineers

PHYSICAL CHARACTERISTICS

Product Code	Product/density	Thickness	Roll Size	Area/Roll
RSL-13503	5kg/m ²	25mm	1.35 x 3m	4.05m ²

SOUND TRANSMISSION LOSS



EARLY FIRE HAZARD

Rhino Sound Lag meets or exceeds the following requirements: The lagging shall form part of a safe building and conform to fire class standards AS1530.3 with 0,0,0,1 performance. It will also comply to Group 3 under ISO 5660-1 heat release, smoke propagation rate. Foil Facing shall meet requirements of BS 4765 part 6 & 7 Class 0.

OPERATING TEMPERATURE RANGE

Continuous: -40 to 100 °C (-40 to 212 °F)
Intermittent: -40 to 120 °C (-40 to 248 °F)

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RHINO SOUND LAG

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July 2020

RHINO ROCKWOOL

FIRE SEAL BATTS



PRODUCT DESCRIPTION

This Rockwool Insulation (Nichias) is made of inorganic fibres from volcanic rock and minerals bonded together by an organic binder. Using the latest and most advanced manufacturing technology from Japan, ensures consistent product quality, high fibre density and low shot content for excellent performance for high temperature, fire resistance and acoustic applications.

Product Code	Thickness (m)	Dimension (mm)	Pieces per Pack	Pack Contents
Rock-W-12 (10)	1.2	168 x 100	10	12 L/Mtrs Per Pack



APPLICATIONS

Rockwool Party Wall Batts are specially manufactured to be friction fitted under compression for vertical applications on party walls. Rockwool Party Wall Batts act as a seal/gasket between the party wall and the roof construction providing up to a 2 hour fire protection level as required under the Building Codes.

Rockwool Party Wall Batts can be installed in a single layer or multiple layer but may require support. The product should be installed with a 15% compression to ensure stability and ensure it is installed without gaps.

KEY BENEFITS

- Durable and light weight
- High fibre content
- Low shot content
- Non combustible
- Non corrosive
- Easily cut and formed
- Bio Soluble and safe to use product
- Low dust fallout
- ASTM C612 Mineral fibre block and board thermal insulation - type IV

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Specification	Value
Density	70kg/m ³
Non Combustibility	AS1530 Part 1 BS476 Part 4
Early Fire Hazard	AS1530 Part 3
Surface Burning Characteristic	ASTM E84
Corrosion Resistance	ASTM C795
Melting Point	1100°C
Water Absorption	Less than 0.2% by volume EN 1609

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RHINO REINFORCED FOIL TAPE



PRODUCT DESCRIPTION

The unique nature of the backing gives this product a rare combination of high strength, flexibility and conformability.

The pressure sensitive adhesive system features high holding power and flame retardant additives.

TECHNICAL DATA

Description	Parameter
Product Code	RFT
Backing	LAMINATED POLYETHYLENE FILM POLYETHYLENE FIBRE MESH ALUMINIUM FOIL
Tensile Strength	100 N/25mm
Adhesive Type	SYNTHETIC RUBBER/RESIN
Adhesion to Steel	20 N/25mm
Elongation at Break	25%
Total Thickness without Liner	205 MICRONS (µm)
Temperature Range	-15°C UP TO 65°C

ROLL LENGTHS

Standard Widths	Number of Rolls per Carton
48MM	20
63MM	16
72MM	16
96MM	12

RHINO REINFORCED FOIL TAPES

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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

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