

310 THERMAL BREAK



RHINO CELL

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 per 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, Tensile Strength | EXTRA HEAVY |
| TAPPI T470 | Duty Rating, Edge Tear Resistance | 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.

Product specification

| | |
|---------------------|-------------------------------|
| WIDTH: | 1.35 (+0.15 Flap) |
| LENGTH: | 22.25m |
| AREA: | 30m ² Coverage |
| THICKNESS: | 11mm |
| LAMINATE 1: | Polyethylene weave Al Foil |
| BUBBLE COMPOSITION: | Polyethylene |
| LAMINATE 2: | Polyethylene weave Al Foil |

Manufacturing
Process:



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