

310 THERMAL BREAK



Product specification

WIDTH:	1350m - min
LENGTH:	22.25m – min
AREA:	30m ²
GAUGE:	150um - nominal
THICKNESS:	10mm ± 1mm
BUBBLE DIAMETER:	30mm - nominal
LAMINATE 1:	Polyethylene weave Al Foil
BUBBLE COMPOSITION:	Polyethylene
LAMINATE 2:	Polyethylene weave Al Foil

Manufacturing
Process:



Thor Building Products P/L
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RHINO CELL

Product Description

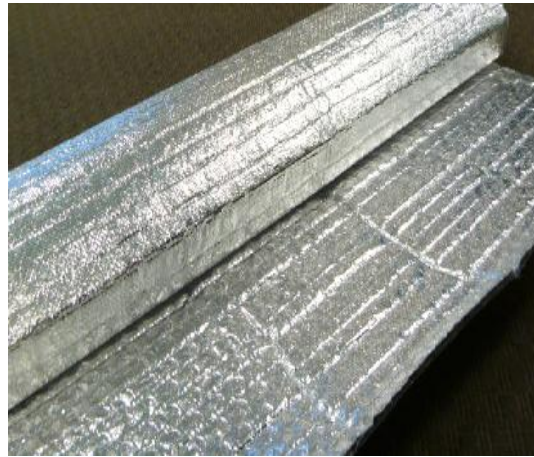
Rhino Cell 310 Thermal Break is a 3 in 1 insulation, vapor barrier and radiant heat barrier for use in roof, wall and floor systems.

The fiber-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 Non-Antiglare and Antiglare surface finished.

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



Product Code	Description	Thickness (mm)	R-Value (m ² K/W)	Dimensions * (mm)	m ² per pack
RC-310	Rhino Cell Non-Antiglare	10mm	R-0.2	1350 x 2225	30
RC-310 AG	Rhino Cell Antiglare				

Finished Product Performance

Compliance to AS 4859.1 &AS4200.1

TEST	DESCRIPTION	PARAMETER
ASTM E - 408	Emissivity	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	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 MD – 13 kN/m CD – 10.5 kN/m
TAPPI T470	DUTY RATING Edge Tear Resistance	EXTRA HEAVY MD – 90N CD – 90N
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 (Pass)
AS 4201.6	Absorbency	< 100g/m ² (Unclassified)
ASTM E-96	Vapor Transmission	Medium

Thermal Performance

Application	Type	Heat Flow In	Heat Flow Out
Warehouse metal roof retrofit, fully sealed 190mm reflective air space	310	R-3.2	R-0.8
Warehouse metal clad wall retrofit, 100mm min reflective air space	310	R-1.2	R-1.3
Warehouse metal roof with ceiling 300mm, no vent	310 AG	R-3.6	R-1.3
Residential metal pitched roof 22° steel frame, no vent	310 AG	R-2.3	R-1.4
Warehouse metal roof, no ceiling fully sealed	310 AG	R-2.1	R-1.0