

Roofmate™

High Efficiency Closed Cell Insulation Board

Description

Dow Roofmate™ is a rigid, closed cell, extruded polystyrene foam insulation board. It has an integral skin on the top, bottom and sides, with sealed cells bonded to one another.

It is produced by a continuous, fully automated extrusion process in accordance with strict Dow quality standards.

Uses

Chemind roofing systems incorporating Dow Roofmate™ insulation will save up to 60% of the energy demand for heating and cooling.

Major applications include exposed roofing with ballast (IRMA), sandwich panels, under storage tanks and cool rooms and wine cellar walls & floors.

Features

Roofmate™ was developed for the Inverted Roof Membrane Assembly (IRMA) system, which placed the roofing insulation material above waterproofing membrane. This has the beneficial effect of placing the roofing membrane in a thermally conditioned environment, which substantially increases the potential life span of the membrane.

- Fully closed cell - no moisture pick-up
- High compressive resistance
- Reduces energy demand by 60%
- Guaranteed insulation for life
- Bacteria and microorganism resistant
- Fast, safe and efficient installation
- Exceptional thermal resistance (R) value
- No CFCs - environmentally friendly
- Increases life of the roofing membrane
- Light weight, convenient sheet size
- Reduces thermal stress on the roof slab
- Quick pay back through energy savings
- Fire resistant - self extinguishing

Typical Properties

Colour	Blue
Composition	Extruded Polystyrene Foam
Nominal Sheet Thickness	25, 40, 50 & 75 mm
Thermal Resistance (R-Value) (AS 2464.6)	25 mm – R = 0.90 40 mm – R = 1.43 50 mm – R = 1.79 75 mm – R = 2.68
Compressive Strength (AS 2498.3)	300 kPa
Water Absorption (BS 3837.2 Appendix E)	0.3% by volume
Water Vapour Diffusion (BS 3837.2 Appendix D)	1.0 ng/Ns
Thermal Conductivity @ 24°C (AS 2464.6)	0.028 W/mK
Fire Behaviour	Self Extinguishing
Dimensional Stability (AS 2498.6)	± 1.0% (dimensional change)

Preparation

All installed waterproofing membranes must be inspected to insure that there are no signs of damage. Any damaged areas must be repaired before Roofmate™ placement proceeds.

Application

- Install Roofmate™ sheets over the clean membrane. Cut and apply Roofmate™ sheets ensuring a neat fit of edge profile.
- Roofmate™ may be secured in place with Grace Bitustik Tape® prior to stone ballast, paving slabs or topping on roof or deck applications (see **Surfacing** below).
- For wine cellars it may be adhered to the surface with Chemind Chemflex sealant or water based stud or contact adhesive.

Surfacing

- IRMA Roofing
 - ♦ Use a layer of rot-proof geofabric over Roofmate™, followed by 50 mm thick layer of 30 mm washed river gravel as ballast.
 - ♦ Use 0.2 mm PE film over Roofmate™, followed by 40 - 50 mm thick pavers supported on Chemind Multi-Pads.
 - ♦ Use 0.2 mm PE film over Roofmate™, followed by a reinforced 100 - 200 mm thick concrete wearing slab.
- Protective Coating
 - ♦ Use Chemind Chemcote W over the Roofmate™ as a tough abrasion resistant coating.
- Rigid Surfaces
 - ♦ Fabric reinforced modified render or FC sheeting, applied by appropriate methods, over the Roofmate™.

NOTE

- A typical 200 mm slab with Chemind Newflex membrane, 50 mm Roofmate™ and 50 mm of gravel has an over all thermal resistance of approximately R 2.3.
- A typical 200 mm slab with Chemind Newflex membrane, 50 mm Roofmate™ and concrete pavers positioned on Chemind Multi-Pads has an over all thermal resistance of approximately R 2.5.
- Do not use solvent-based adhesives, mastics or coatings on Roofmate™.

Packaging

Roofmate™ is provided in sheet sizes of 1.25 m x 600 mm or 2.5 m x 600 mm, in sheet thicknesses of 25, 40, 50 or 75 mm. Length of 40mm, 50mm and 75mm sheet is 1.25m. These sizes are available as 2.5m on indent request.



HEAD OFFICE
74 Annie Street
ROCKLEA QLD 4106
AUSTRALIA
Ph: (+617) 3255 5755
Fax: (+617) 3255 5991
ABN: 63 250 804 992