

NEW IMPROVED

**DESIGNER AND
USER GUIDELINES**

THERMABAR 314 **HEAVY WEIGHT
TEAR RESISTANT
LIGHT DIFFUSER
FOIL INSULATION**

NOTE: NEW Thermabar 314 Light Diffuser CONTAINS NO KRAFT AND IS NOT SUBJECT TO WATER ABSORPTION.

| | |
|--|--|
| Product Description | NEW Thermabar 314 Light Diffuser is a heavy weight shrink resistant single sided foil insulation. |
| Technical Description | NEW Thermabar 314 Light Diffuser consists of a highly burnished aluminium foil laminated by a Hot Melt Polyethylene film to an extremely strong polymeric fabric. This is a tough pure white mesh designed for high tensile and is a unique product bonded into a single unit, providing a fully tear and puncture resistant product, unaffected by moisture. |
| Product Advantage | NEW Thermabar 314 Light Diffuser foil insulation provides the ideal roofing underlay allowing the inert advantages of its one sided pure white polymeric weave to rest against any metal surface without fear of galvanic action or problems associated with dissimilar metal surfaces. NEW Thermabar 314 Light Diffuser foil insulation will under normal roofing applications (Commercial/Industrial) provide insulation similar to that obtained with double sided foils (Refer Building Information Bulletin 357, June 1997, Building Research Association of New Zealand) |
| Product Application | NEW Thermabar 314 Light Diffuser foil insulation may be specified as if with normal double sided foils. Its unique pure white polymeric weave on the reverse will provide equal moisture vapour barrier properties to that of double sided foils. NEW Thermabar 314 Light Diffuser will not provide a catalyst for corrosion. |
| Roofing | NEW Thermabar 314 Light Diffuser should be laid weather board fashion starting from the gutter. Allow 150mm lap on all runs. NEW Thermabar 314 Light Diffuser provides the ideal vapour barrier for use in conjunction with mass insulation. NEW Thermabar 314 Light Diffuser rolls are wound so that when laying, the white surface is facing into the building improving the lighting. NEW Thermabar 314 Light Diffuser is ideal for application in such buildings as piggeries, cow sheds, wool sheds, and other agricultural end uses. Consideration should also be given when designing commercial areas whereby excessive flash from welding torches could under normal foil applications prove a danger to workmen and other staff. |
| Domestic Applications | NEW Thermabar 314 Light Diffuser foil insulation should be placed on the inside stud prior to fixing inside lining. Face foil to cavity. |
| Ceilings | NEW Thermabar 314 Light Diffuser should be fixed to the underside of the trusses prior to fixing ceiling straps. Face foil down to enclosed cavity. For best performance ensure all edges and laps are sealed with pressure sensitive tape such as silver grey 48mm P.V.C. General Purpose Tape. |
| White Out Diffuser Applications | NEW Thermabar 314 Light Diffuser may be laid as with normal roofing underlays. Minimum 150mm lap. |

Note: NEW Thermabar 314 Light Diffuser may be laid with minimum sheet tension over support netting, ensuring a flat even surface, which will improve the visual effects of the matt white surface.

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THERMABAR 314 Light Diffuser

Roof Sarking

NEW Thermabar 314 Light Diffuser should be laid as a moisture vapour barrier initially to maintain a waterproof membrane to keep the sarking dry until the roof is fixed. Ensure timber sarking moisture content is below 22%. Allow 150mm lap. All joints to be sealed with adhesives and/or pressure sensitive all weather tape. Where battens are nailed through the membrane cover prenailed battens with sealant at nail points, any other projections and penetrations must be sealed. (Refer BRANZ Building Information Bulletin 368 fig.1 flat or skillion roof). Roof sarking should not be exposed to weather for longer than 3-4 weeks.

Roll Dimensions

| mm x m | Area |
|-------------|----------|
| 1350 x 74.1 | 100 sq m |
| 1350 x 56 | 75 sq m |
| 1350 x 37 | 50 sq m |

Also available in Handiman size rolls of 25 sq m.

Availability

From leading Hardware and Builders Supply Merchants.

Durability

NEW Thermabar 314 Light Diffuser

- is installed correctly
- is installed according to our installation instructions
- is not damaged in any way
- is covered within 24 hours

NEW Thermabar 314 Light Diffuser will last for 15 years.

Physical Properties

(Typical values)

| | |
|-----------------------------------|---------------------------------------|
| Tensile strength (ASTM D828) | Bursting Force (AS2001.2.1988) > 665N |
| Longitudinal direction 13.5 kN/m | Basic Weight 140 gsm |
| Transverse direction 9.0 kN/m | Reflectivity of foil surface 0.95 |
| Edge tear (T.A.A.P. I T470 OM-89) | Emissivity of foil surface 0.05 |
| M.D. 360N | Resistance to acids and alkalis. |
| C.D. 511N | Poor if foil surface is exposed. |

THERMABAR

- REFLECTIVE ALUMINIUM FOIL INSULATION

THERMOKRAFT FR

- FIRE RETARDANT BUILDING PAPERS

THERMAKRAFT

- BITUMINOUS BUILDING PAPERS



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