Thermostruct Thermal Solutions (An Enviroworx Pty Ltd Company) 27 Kelvin Grove Prahran, 3181 Ph: 03 9095 8322
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DOW Tuff-R

Featuring the highest thermal insulation value of any foam sheathing currently available, Dow Tuff-R is a closed cell polyisocyanurate (PIR) foam core sandwiched between two durable, aluminium foil exterior facers. The first is a continuous sheet of aluminium foil, the other is aluminium foil-Kraft paper-aluminium foil. Air cannot penetrate the facers, which also minimises water and water vapour intrusion into the polyisocyanurate foam insulation core, and allows the foam R-value to stabilise at a higher value. Tuff-R thermal insulation can be easily applied to a variety of substrates.

Tuff-R thermal insulation is a rigid board, manufactured with a HFC blowing agent, which has zero ozone depletion potential (ODP) than standard CFC/HCFC blowing agents and is Green Star Compliant.



Features

- High R-Value enhances thermal efficiency
- Facers help reduce are penetration and water vapour intrusion
- Compatible with most exterior siding treatments
- Easy to handle, cut and install
- 15 Year limited thermal warranty

Applications

- Car park soffits, concrete roofs
- Double brick wall, cavity wall, double cavity precast wall, masonry wall external
- Underside of slab

Standards

- Green star compliant
- CFC and HCFC Free
- Zero ODP
- LEED
- USGBC

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Technical Data

Product name:	Tuff-R Polyisocyanurate PIR rigid thermal insulation
Product Description:	Tuff-R a non-structural rigid thermal insulation board consisting of a polyisocyanurate PIR foam core laminated between smooth, reflective aluminium foil facers on both sides.
Surface finish:	Aluminium foil one face and composite foil Laminate on the other.
Product code:	Tuff-R
Colour:	Silver foil facers with foam core
Edge treatment:	Square
Thickness:	12.7 mm to 152.4mm
Width:	1219 mm
Length:	2235 mm
Density:	32 kg/m³
Compressive strength:	137 kPa (min) @ 10% deformation
Water absorption:	0.3%
Blowing agent:	HFC
Environmental characteristics:	Green Star Compliant, Zero ODP, CFC/HCFC Free

Thickness to R-Value Tuff-R PIR @ 23.88°C (75°F) aged for 90 days **Thickness** Lambda/K Value/Thermal **R Value Metres** Conductivity 0.0127 0.58 0.022 0.0254 0.022 1.15 0.0381 0.022 1.73 0.0508 0.022 2.31 0.0635 0.022 2.89 0.0762 0.022 3.46 0.0889 0.022 4.04 0.1016 0.022 4.62 0.1143 0.022 5.20 0.1270 0.022 5.77 6.35 0.1397 0.022 6.93 0.1524 0.022