

DOW Tuff-R

Details

Featuring the highest thermal insulation value of any foam sheathing currently available, Dow Tuff-R™ distributed by DCTech 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. Dow Tuff-R™ thermal insulation can be easily applied to a variety of substrates.

Dow 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.

Applications

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

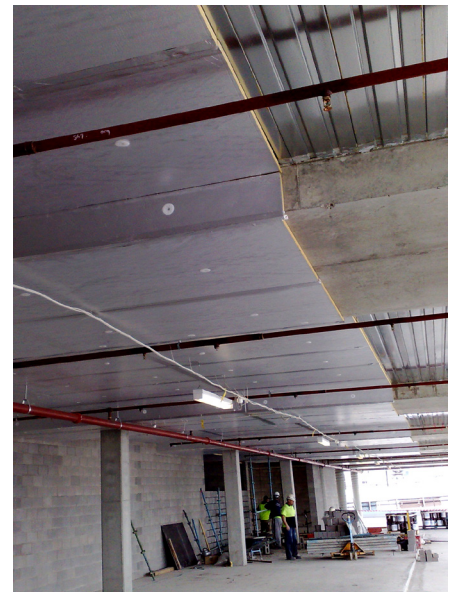
Features

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

Standards

- Green Star Compliant
- CFC and HCFC Free
- Zero ODP
- LEED
- USGBC

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sample specification

Specification Clause – General Application Board

Dow Tuff-R™ PIR general application board should be described in specifications as:-

The insulation shall be Dow Tuff-R™ General application board ____mm thick comprising a premium performance CFC/HCFC-free rigid PIR (Polyisocyanurate) thermoset insulation core with 12.5 micron tri laminate, autohesively bonded foil facings on both sides conforming to fire tests, AS1530-3, AS3837 Group Classification 1 manufactured to the highest standards under quality control systems approved to ASTM C1289-02 DOW Insulation Limited and shall be applied in accordance with the instructions issued by them. Dow Tuff-R™ is distributed by Dynamic Composite Technologies - T: 1800 051 100.

technical data sheet

Product Name:	Dow Tuff-R™ Polyisocyanurate PIR rigid thermal insulation
Product Description:	Dow 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
Width:	1219 mm
Length:	2235 mm
Density:	32 kg/m ³
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 Dow Tuff-R™ PIR @ 23.88°C (75°F) aged for 90 days		
Thickness Metres	Lambda/K Value/Thermal Conductivity	R Value
0.0127	0.022	0.58
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
0.1397	0.022	6.35
0.1524	0.022	6.93

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