



## Tuff-R

### Details

Featuring the highest thermal insulation value of any foam sheathing currently available, 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. 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.

### Applications

- Car park soffits, concrete roofs
- *Tuff-R is not compliant in exposed applications where AS ISO 9705 determined group classification is required. Examples are where required by Melbourne Fire Brigade or buildings approved under the NCC 2015.*
- Double brick wall, cavity wall, double cavity precast wall, masonry wall external
- Underside of slab



**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

Dynamic Composite Technologies Pty Ltd  
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### 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

foil facings on both sides conforming to fire tests, AS1530-3, manufactured to the highest standards under quality control systems.

Dow Tuff-R™ is distributed by Dynamic Composite Technologies  
T: 1800 051 100.

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**Technical Data**

Product Name:	<b>Dow Tuff-R™</b> Polyisocyanurate PIR rigid thermal insulation
Product Description:	Dow Tuff-R™ a non structural rigid thermal insulation board consisting of a polyisocyanurate PIR thermoset 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
Nominal Thickness:	13 mm
Width:	1219 mm
Length:	2235 mm
Density:	32 kg/m <sup>3</sup>
Compressive strength:	137 kPa (min) @ 10% deformation
Water absorption:	0.3%
Blowing agent:	HFC
Environmental characteristics:	Green Star Compliant, Zero ODP, CFC/HCFC Free

Nominal Thickness to R-Value		
Dow Tuff-R™ PIR @ 23.88°C (75°F) aged for 90 days		
Nominal Thickness mm	Lambda/K Value/Thermal Conductivity	R Value
13	0.022	0.6
19	0.022	0.9

Tuff-R used in car park soffits, please check with your local building certifiers regarding compliance with the states fire code

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