



## Styrofoam RTM-X

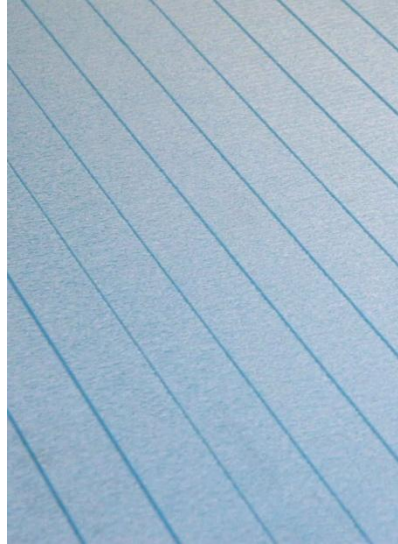
### Details

Styrofoam™ RTM-X extruded polystyrene (XPS) thermal insulation distributed by DCTech, is recommended as a core material in sandwich panels for the walls, floors, roofs and doors in refrigerated trucks and containers.

With long term proven performance and creep data, Styrofoam™ RTM-X XPS thermal insulation is an ideal engineered product that designers may confidently specify in today's increasingly highly loaded floor designs. For sandwich panel cores, the lightweight, close tolerance, dust-free surface allows for excellent bonding to a wide variety of sheet materials.

Styrofoam™ RTM-X XPS rigid insulation has been specifically designed to withstand severe dynamic loads and stresses which may eventually lead to fatigue and failure. It is specially designed to resist such force and in tests has been shown to perform extremely well under dynamic load cycling.

Styrofoam™ RTM-X XPS insulation is manufactured through a continuous extrusion process, and as with all Styrofoam insulation products possess a rigid closed cell structure with unique properties such as low thermal conductivity, high resistance to water



**Specification Clause**  
**General Application Board**  
**Specify Dow Styrofoam™ 'X'**  
**Foam for Greenstar projects**  
Dow Styrofoam™ RTM-X

Dynamic Composite Technologies Pty Ltd  
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penetration and high compressive strength.

Styrofoam™ RTM-X XPS thermal insulation is produced in a range of thicknesses and is grooved on both facers. Styrofoam™ XPS insulation products are not biodegradable in the environment, and do not present an environmental hazard in the water/soil compartment. When correctly installed, Styrofoam™ XPS insulation products have a service life comparable with the remainder of the building or structure. Styrofoam™ XPS boards can be reused, even after having been installed for decades.

### Applications

- Core material in sandwich panels for the walls, floors, roofs and doors in refrigerated trucks and containers
- High load-bearing floors such as cold stores, warehouses and parking areas
- Under or over ground bearing concrete slabs
- Suspended beam and block or timber floors

### Features

- Low thermal conductivity
- High compressive strength-to-weight ratio
- High resistance to water penetration
- Grooved surface allows for excellent bonding to a variety of sheet materials

extruded polystyrene general application board should be described in specifications as:-

The insulation shall be Dow Styrofoam™ RTM-X \_\_\_mm closed cell rigid cellular extruded polystyrene (XPS) foam panel with minimum compressive strength 400 kPa. Dow Styrofoam™ RTM-X is distributed by Dynamic Composite Technologies - T: 1800 051 100.

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### Standards

- Green Star Compliant
- CFC & HCFC Free
- Zero ODP

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## Technical Data

Product Name:	<b>Dow Styrofoam™ RTM-X</b> Extruded polystyrene XPS rigid thermal insulation
Product Description:	Dow Styrofoam™ RTM-X XPS thermal insulation has been specifically designed to withstand severe dynamic loads and stresses which may eventually lead to fatigue and failure. Dow Styrofoam™ RTM-X is perfect for installation under or over the slab in ground bearing concrete floors and is suitable for use on suspended beam and block or timber floors. For sandwich panel cores, the lightweight, close tolerance, dust-free surface allows for excellent bonding to a wide variety of sheet materials.
Surface finish:	Planed with grooves on both faces at 3.5mm (d) x 1.8mm (w) @ 39mm intervals
Product code:	RTM-X
Colour:	Blue
Edge treatment:	Butt edge
Nominal Thickness:	25, 35, 50, 75, 100, 120 mm
Width:	600 mm
Length:	2500 mm
Density:	40 kg/m <sup>3</sup>
Compressive strength:	400 kPa (min) @ 10% deformation
Water absorption:	0.5%
Blowing agent:	HFC
Environmental characteristics:	Green Star Compliant, Zero ODP, CFC/HCFC Free



**Nominal Thickness to R-Value**  
**Dow Styrofoam™ RTM-X XPS @ 24°C**

<b>Nominal Thickness mm</b>	<b>Lambda/K Value/Thermal Conductivity</b>	<b>R Value</b>
25	0.0278	0.9
30	0.0278	1.1
40	0.0278	1.4
50	0.0278	1.8
60	0.0278	2.2
75	0.0278	2.7
80	0.0278	2.9
90	0.0278	3.2
100	0.0278	3.6
120	0.0278	4.3
150	0.0278	5.4
200	0.0278	7.2

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