



ThermaStar™

Product Technical Information

Version 001

Product Description

ThermaStar™ is a premium grade of expanded polystyrene from RMAX manufactured to exceed Class VH of the Australian Standard AS 1366, Part 3-1992 for expanded polystyrene block materials combined with foil facing on both sides of the sheet. ThermaStar™ is produced in various thicknesses to suit customer needs. The strength and excellent insulation performance characteristics of ThermaStar™ make it ideally suited as thermal insulation in floors, walls and roofs of commercial and residential buildings. ThermaStar™ products are free of ozone depleting substances.

Physical Properties

Physical Property	Units	ThermaStar™	Test Method
Compressive Strength @10% deformation, min.	kPa	>190	AS 2498.3
Cross-breaking strength, min.	kPa	>360	AS 2498.4
Rate of water vapour transmission, max. measured parallel to rise @23°C	µg/m ² .s	350	AS 2498.5
Dimensional stability of length width, thickness, max. @70°C over 7 days	percent	1	AS 2498.6
Thermal resistance, R, min. Concrete sub floor*	m ² .K/W	3.43 – Down 2.05 - Up	AS/NZS 4859.1
Fire Resistance(cone calorimeter)		Group 1	AS 3837
Early Fire Hazard Properties - Ignitability Index- scale 0-20 - Spread of Flame Index –scale 0-10 - Heat Evolved Index – scale 0-10 - Smoke Produced Index- scale 0-10		0 0 0 0-1	AS1530.3
Foil Emittance		0.03	AS4859.1
Surface Corrosion		Pass	AS4859.1
Wet/Dry Delamination		Pass	AS4859.1
Apparent Bulk Density, min.	g/L	28	ISO 845

*Note - Based on 180 mm concrete, 80 mm air gap, 20 mm ThermaStar