

Slabmate SL Grade Expanded Polystyrene, is a cellular plastic material that is strong, but has very low density. It is made in sheet form and is produced in Australia to meet Australian Standards, AS1366, Part 3. Slabmate is tested against these minimum requirements.

Quality Assurance

Slabmate exceeds the requirements of AS1366, Rigid cellular plastic sheets for thermal insulation Part3: Rigid Cellular Polystyrene-Moulded.

Size and Shape

Slabmate is produced in block form. Standard sizes:

- 1200mm width
- 2400mm length
- 30mm up to 70mm thickness

Additional Information

Does your project need additional compressive strength or R Values? If so, we do offer the product Slabmate Pro which has a compressive strength of 185 kPa and R Values of up to R3.0.

R Values

PRODUCT	R VALUE
SM-030 - Slabmate® 30MM	R0.78
SM-040 - Slabmate® 40MM	R0.92
SM-050 - Slabmate® 50MM	R1.1
SM-060 - Slabmate® 60MM	R1.35
SM-070 - Slabmate® 70MM	R1.7

Testing Compliance

Physical Property	Test Method	Requirement	Performance
Nominal Density	ISO 845	13.5kg/m³	Pass
Compressive Strength at 10% deformation	AS 2498.3	70 kPa (min)	Pass
Cross Break Strength	AS 2498.4	135 kPa	Pass
R Value (thermal resistance) 50mm sample at 23°C	AS 4859.1	1.2 m² K/W (min)	Pass
Flame Propagation Median flame duration	AS 2122.1	2 SD (max)	Pass
Eighth value	AS 2122.1	3 SD (max)	Pass
Median volume retained	AS 2122.1	18% (min)	Pass
Eighth value	AS 2122.1	15% (min)	Pass
Dimensional Stability - Length, width, thickness	AS 2498.6	1% (max)	Pass
Water Vapour Transmission, measured parallel to rise at 23°C	AS 2498.4	630 ug/m²s (max)	Pass
Compressive strength at 1% deformation	AS 2498.3	20 kPa	Pass
Elastic Modulus, min	ASTM D1621	2000 kPa	Pass

**For most applications long term design loads should not exceed the linear elastic range of Slabmate. Combined live and dead load stresses should not exceed the compressive resistance at 1% load.

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