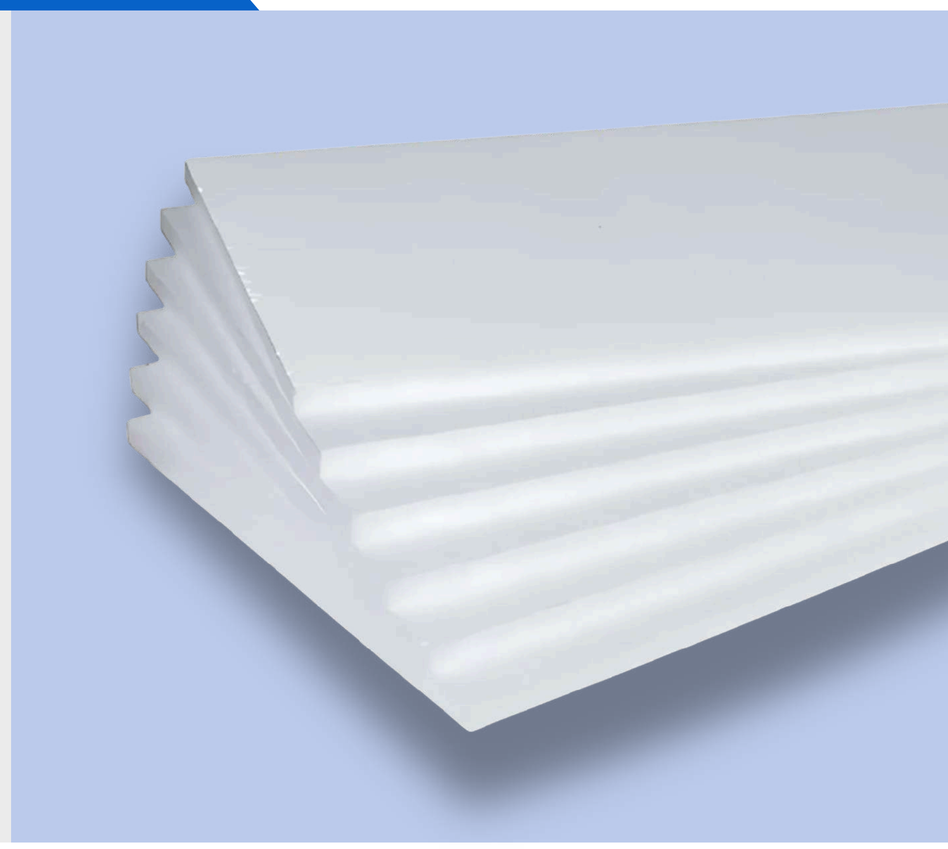
TECHNICAL DATA SHEET

VoidX™ Polystyrene Sheets

PRODUCT DESCRIPTION

Danterr's VoidX™ Polystyrene Sheet is an Australian-made, H-Grade expanded polystyrene (EPS) insulation board designed for commercial and industrial construction applications. Manufactured from lightweight polystyrene foam, it provides reliable thermal insulation and compressive strength for wall, floor and other building insulation requirements.

Designed to reduce heat transfer and improve building energy efficiency, VoidX™ offers moisture resistance and dimensional stability for long-term insulation performance. Its lightweight construction allows efficient cutting, handling and installation on site, while the recyclable EPS material supports more sustainable construction practices.



FEATURES & BENEFITS

- Provides effective thermal insulation to reduce heat transfer.
- Delivers H-Grade compressive strength for construction applications.
- Lightweight foam sheets allow easy cutting, handling and installation.
- Offers low water absorption to support insulation performance.
- Maintains dimensional stability under specified conditions.
- Suitable for wall, floor and other building insulation applications.
- Manufactured from recyclable expanded polystyrene material.

APPLICATIONS

- Commercial and industrial building insulation.
- Thermal insulation for wall systems.
- Floor insulation applications.
- Building elements requiring reduced heat transfer.
- Construction applications requiring lightweight insulation boards

GENERAL INSTALLATION GUIDANCE

The following information provides general installation guidance. The selection, placement, and fixing of VoidX™ Polystyrene Sheet H should be carried out in accordance with the approved project design and applicable installation requirements.

1. **Surface Preparation** – Ensure the installation area is prepared according to the project requirements.
2. **Sheet Selection** – Select the appropriate thickness of VoidX™ Polystyrene Sheet for the specified insulation application.
3. **Cut to Size** – Cut the polystyrene sheets to the required dimensions.
4. **Sheet Placement** – Position the boards within the designated wall, floor or building insulation area.
5. **Secure Installation** – Install the sheets using the fixing or placement method specified in the project design.
6. **Final Inspection** – Check sheet positioning, alignment and condition before subsequent construction works.

PACKAGING & AVAILABILITY

Code	Description
109960	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 10mm Thick
112795	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 15mm Thick
110041	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 20mm Thick
110335	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 25mm Thick
110708	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 30mm Thick
118720	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 40mm Thick
108576	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 50mm Thick
118488	VoidX™ Polystyrene Sheet H 2400mm x 1200mm x 100mm Thick

COMPLIANCE AND STANDARDS

VoidX™ Polystyrene Sheet uses H-Grade EPS material to meet the requirements of Australian standards for rigid cellular polystyrene insulation.

- **AS 1366.3:1992** – Physical properties and manufacturing requirements for rigid cellular polystyrene.
- **AS/NZS 4859.1:2018** – Thermal resistance testing for insulation materials.

SAFETY & HANDLING

- Handle sheets carefully to prevent damage during transport and installation.
- Store in a clean, dry area away from heat, sparks, open flames, and other ignition sources.
- Keep away from incompatible materials, including strong oxidising agents and organic solvents.
- Minimise dust generation and accumulation during cutting and handling.
- Use appropriate PPE during cutting, including eye protection where dust exposure is possible and respiratory protection if dust is generated.
- Inspect sheets before installation and replace damaged sections.
- Collect offcuts and recycle clean EPS material through suitable recycling facilities where available.

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TECHNICAL DATA SHEET

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TECHNICAL SPECIFICATIONS

PHYSICAL PROPERTIES

Property	H-Grade Specification	Test Method
Material	Expanded Polystyrene (EPS)	—
Density (Nominal)	24 kg/m³	—
Compressive Stress at 10% Deformation (Min.)	135 kPa	AS 2498.3
Compressive Strength at 1% Deformation (Max.)	58 kPa	ASTM D1621
Compressive Strength at 5% Deformation (Max.)	134 kPa	ASTM D1621
Cross Breaking Strength (Min.)	260 kPa	AS 2498.4
Flexural Strength (Min.)	304 kPa	ASTM C203
Elastic Modulus (Min.)	5,850 kPa	—
Water Absorption by Total Immersion (Max.)	3% by volume	ASTM C272
Rate of Water Vapour Transmission (Max., measured parallel to rise at 23°C)	450 µg/m²·s	AS 2498.5
Dimensional Stability of Length, Width and Thickness (Max., 7 days at 70°C)	1%	AS 2498.6
Thermal Resistance (50 mm Sample, Min.)	R1.4 m²K/W	AS/NZS 4859.1:2018
Buoyancy Force	976 kg/m³	—
Coefficient of Thermal Expansion	6.3 × 10^{-5} m/m·K	ASTM D696

FLAME PROPAGATION CHARACTERISTICS

Property	H-Grade Specification	Test Method
Median Flame Duration (Max.)	2 SD	AS 2122.1
Eighth Value (Max.)	3 SD	AS 2122.1
Median Volume Retained	40%	AS 2122.1
Eighth Value (Min.)	37%	AS 2122.1

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