

Product Data Sheet

SECUROCK BOARD

High performance non-combustible cement overlay board for use in cold applied liquid flat roof waterproofing applications.

Securock is a non-combustible cement roof overlay board with high compressive strength for use in warm roof flat roof waterproofing systems. It is a lightweight and easy-to-install board providing enhanced durability and adding high point load resistance to the roof waterproofing built-up system as an overlay board, and also serving as a parapet, thermal or fire barrier roof board.

Securock is ideal for use with Axter Starcoat® cold applied liquid waterproofing systems and can also be used with other waterproofing membranes, including fully adhered and mechanically fixed systems. Cementitious-based with a reinforcement mesh for added strength, Securock overlay board is water resistant and will not rot, warp, delaminate or disintegrate.



Key benefits

- Non-combustible.
- Ideal for use as an overlay board or as a parapet, thermal or fire barrier board.
- High compressive strength.
- Water durable, mould-resistant.
- Will not warp, delaminate, disintegrate or rot.
- Environmentally sustainable.
- Easy handling and installation.

Performance

Exceptional strength: Engineered to provide superior wind uplift performance for a variety of waterproofing system build-ups, Securock cement overlay board is formed in a continuous process using an aggregated Portland cement slurry with polymer-coated, glass-fibre mesh completely encompassing edges and both surfaces. This enhances the bond strength of membrane systems and results in excellent resistance to delamination.

Moisture and mould: rated maximum “10” for mould resistance on ASTM D3273 and is highly water durable.

Fire Performance: Securock cement board meets Factory Mutual (FM) Class 1 and Underwriters Laboratories (UL) Class A fire ratings for unlimited slope in fire-barrier applications in accordance with UL 790.

- UL Classified (Type DCB) as to Surface Burning Characteristics and Non-combustibility in accordance with ASTM E84 (CAN/ULC-S102). Flame Spread 0 and Smoke Developed 0. Non-combustible.
- Class A unlimited slope in accordance with UL790 (CAN/ULC-S107). More information available in the UL Building Materials Directory.
- FM approved, complies with requirement of FM 4450 & 4470; meets FM Class 1.

Product data

Securock cement roof board is manufactured to conform to ASTM C1325, “Standard for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units”.

Physical properties	Data
Product thickness, nominal	12.7mm
Board size	1220 x 2400mm
Pieces per unit	30
Weight, nominal lb/unit	2375
Weight, nominal lb/sq ft	2.4
Flexural strength, parallel, psi, ref ASTM C947	>750
Compressive strength, psi nominal	>1000
Flute spanability ref ASTM E661	12”
Permeance, perms. ref ASTM E96	5.84
R Value, °F.ft ² .h/Btu, ref ASTM C518	0.39
Coefficient of thermal expansion, inches/inch/°F ref ASTM E831	4.5 x 10 ⁻⁶
Linear variation with change in moisture, %, ref ASTM D1037	<0.07
Water absorption, %, max, ref ASTM C473	<15
Mould resistance, ref ASTM D3273*	10
Minimum bending radius	6' (1.83m)

*ASTM D3273 Mould Resistance Testing: In independent lab tests conducted on Securock® Brand Cement Roof Board at the time of manufacture per ASTM D3273 Standard Test Method for Resistance to Growth of Mould on the Surface of Interior Coatings in an Environmental Chamber, a score of 10 was achieved. The ASTM lab test may not accurately represent the mould performance of building materials in actual use. In the event of unsuitable conditions during storage, installation or after completion, building materials can become subjected to mould. To manage mould growth, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building through good design and construction practices.

Design considerations

Please contact Axter Ltd for design assistance.

Installation

Installation should always be completed in accordance with Axter's roof waterproofing specification and industry codes of practice and regulations. Where applicable, approved corrosion-resistant fasteners compatible with concrete and complying with the above requirements, should be used in accordance with Axter's installation recommendations.

Securock roof overlay boards are installed directly under the waterproofing membrane and above the insulation. To ensure correct installation, stagger the Securock board and insulation board end joints. All Securock board edges should be loosely abutted.

Consult Axter for advice on vertical parapet applications.

Keep Securock boards dry before, during and after installation. They should not be installed during rain, heavy fog or other conditions that deposit moisture on the board surface.

Avoid exposing boards to moisture from leaks or condensation. Do not install boards if they exhibit frost or are below 0°C.

On refurbishment projects, the existing roof system must be dry throughout prior to application of the Securock board. Install only what can be covered by the final waterproofing system membrane within the same day.

Packaging and storage

Protective packaging of the Securock board during transit should be removed on arrival to prevent condensation or trapping of moisture, which may cause installation problems.

Securock boards should be stored flat, off the ground and protected from the weather. If stored outdoors, they should be protected by a breathable waterproofing covering.

Securock is formulated to develop fine microcracking in the board. The microcracking process helps to evenly relieve the stored strain energy in the product due to handling and installation and external loads and should not be considered a product defect

Health and safety

Please contact Axter for safety data relating to this product.

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