

## SECTION 07 5X XX – Substrate Board, USG Securock® Brand Cement Roof board

**Sustainability Notes:**

- Environmentally sustainable product—lower weight reduces embodied energy and embodied emissions.
- For Sustainability attributes, reference USG Securock Brand Cement Roof Board Product Attribute Report (PAR) RF73.

**Product Summary:**

- Ideal for use as a cover board in system applications such as liquid-applied membranes or as a parapet, fire or thermal barrier roof board
- Lightest cement board in the industry. Water-durable, mold-resistant substrate.
- Environmentally sustainable product—lower weight reduces embodied energy and embodied emissions.
- Exceptional Strength: Engineered to provide superior wind-uplift performance for a wide variety of roof assemblies. USG Securock Cement Roof Board is formed in a continuous process using an aggregated Portland cement slurry with polymer-coated, glass-fiber mesh completely encompassing edges and both surfaces, which enhances bond strength of membrane systems and gives excellent resistance to delamination.
- UL Classified (Type DCB) as to Surface Burning Characteristics and Noncombustibility in accordance with ASTM E84 (CAN/ULC-S102).
- Meets Factory Mutual (FM) Class 1 and Underwriters Laboratories (UL) Class A fire ratings for unlimited slope in fire-barrier applications per UL 790.
- Moisture and Mold: Scored a maximum “10” for mold resistance on ASTM D3273 and is highly water durable.
- Versatile: Can be used as a component in single-ply, fluid-applied, spray foam, metal and cold applied modified bitumen roofing. Comes in both 4' x 8' and 4' x 4' sizes.
- For More information, reference product submittal sheet RF51 and roofing product information RF39.
- <Insert product representative here> or 800.874.4968 for technical questions.

**Note to Specifiers:**

- This document is not intended to function as a standalone specification. It is intended to assist the specifier in inserting the proper language into the following recommended specification sections:  
07 5x xx – ROOFING, SUBSTRATE BOARD.
- Refer to roof system manufacturer's written instructions, local code requirements and Factory Mutual Global (FMG) and/or Underwriters Laboratories (UL) requirements for proper installation techniques.
- FM Approved, Complies with requirements of FM 4450 and FM 4470, meets FM Class 1
- USG Securock Cement Roof Board is engineered to perform within a properly designed roof system. The use of USG Securock Cement Roof Board as a roofing component is the responsibility of the design professional.
- Wind uplift (vertical pull) of the roof system as installed can be affected by many factors beyond USG's control, including moisture migrating into the roof assembly from inside or outside the building, proper fastener spacing, the quality of installation especially for fasteners and whether the framing has been properly designed and installed to meet strength and deflection criteria specified in the contract documents. For all these reasons, USG cannot guarantee the wind-uplift resistance (vertical pull) of any roof assembly or system containing USG roof boards.

## 2.2 SUBSTRATE BOARD, USG SECUROCK® CEMENT ROOF BOARD

- A. Cement Roof Cover Board: ASTM C1325, “Standard for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units.”
1. Basis of Design: Subject to compliance with project requirements, the design is based on the following: “USG Securock® Brand Cement Roof Board”.
  2. UL Type Designation “DCB”.
  3. ASTM D 3273: Mold Resistance: Score of 10 as rated according to ASTM D 3273.
  4. ASTM E96: 5.84.
  5. ASTM E84 Surface-Burning Characteristics:
    - 1) Flame Spread: 0.
    - 2) Smoke Developed: 0.
  6. ASTM E661 Flute Span-ability: 12” (304).
  7. ASTM C518 R value: [0.39] [0.49].
  8. Compressive Strength: 1800 psi.
  9. Thickness: [1/2” (12.7)] [5/8” (15.9)].
  10. Length: [4’-0” (1219)] [8’-0” (2438)].
  11. Widths: 48” (1219).
  12. Weight: [2.4] [3.0] lb./ft<sup>2</sup>.
  13. Bending Radius: 6’-0” (1830).
  14. Long Edges: Square.

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