



ICC-ES Listing Report

Reissued April 2024

ESL-1343

This listing is subject to renewal April 2025.

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 45 00—Fiber-Reinforced Cementitious Panels

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: USG DUROCK® BRAND CEMENT BOARD

Listee: USG CORPORATION

Evaluation: USG Durock® Brand Cement Board is a non-asbestos fiber-mat reinforced cementitious backer unit and are intended for use as a substrate for stone or tile on walls, floors or decks in wet and dry areas. Each board is ½-inch-thick (12.7 mm) and measures 48 inches wide by 96 inches long (1219 mm by 2438 mm), where one side is defined by the manufacturer as “rough” and the other side defined as “smooth”. The board may be applied with mortar or adhesive on either side, where either side of the board may be installed toward the substrate (See Figure 1). The board was evaluated when tested to the following standards:

- ASTM C1325-18, Standard Specification for Fiber-Mat Reinforced Cementitious Backer Units, ASTM International.
- ASTM C1325-14, Standard Specification for Non-Asbestos Fiber-Mat Reinforced Cementitious Backer Units, ASTM International.

Findings: When tested in accordance with the dimensional, mechanical and physical requirements of ASTM C1325 as noted in Tables 1 and 2, USG Durock® Brand Cement Board is classified as Type A, based on testing in accordance with ASTM C1325 as referenced in the applicable sections of the following code editions:

- 2021 and 2018 *International Building Code*®
Applicable Section: 2509.2 (Table 2509.2)
- 2021 and 2018 *International Residential Code*®
Applicable Section: R702.4.2 (Table R702.4.2)

Identification:

1. USG Durock® Brand Cement Board described in this listing report are packaged in bundles bearing a label indicating the manufacturer's name (USG Corporation) and address, a plant identifier and date code, the product name, the type of product (Type A), the ICC-ES listing report number (ESL-1343), and when applicable, the ICC-ES listing mark.
2. The report holder's contact information is the following:

USG CORPORATION
550 WEST ADAMS STREET
CHICAGO, ILLINOIS 60661
www.usg.com

Installation: The product must be installed in accordance with USG Corporation’s published installation instructions and applicable codes.

Conditions of listing:

1. The listing report addresses only conformance with the standards and code sections noted above.
2. Approval of the product’s use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. USG Durock® Brand Cement Board are manufactured under a quality control program with inspections by ICC-ES.

Table 1—Dimensions and Tolerances

Length (in.)	Width (in.)	Thickness (in.)	Squareness	Edge Straightness
48±1/8	96±1/8	1/2 Maximum difference within a sheet: 0.03-in. Maximum difference between sheets: 0.03-in.	Square within 1/32-in. per foot	Straight within 1/32-in. per foot

For SI: 1 inch = 25.4 mm

Table 2—Physical Properties

Property	Value
Flexural Strength	750 psi or greater
Density	Between 50.4 and 60 lb/ft ³
Modulus of Elasticity	30,000 psi or greater
Moisture Movement	Linear Variation from 30% to 90% Relative Humidity: Maximum 0.07%
Warm Water Resistance	525 psi or greater
Surface Burning Characteristics	Flame Spread Index: 10 or Less Smoke Developed Index: 5 or Less
Shear Bond Strength (Dry-Set Portland Cement Mortar)	Greater than 50 psi
Shear Bond Strength (Latex-Portland Cement Mortar)	Greater than 50 psi
Shear Bond Strength (Organic Adhesive Type 1)	Greater than 50 psi
Nail-Head Pull-Through	Nail Head Pull-Through Resistance ^a : 90 lbf or Greater
Mold Resistance	Observed Growth Rating: 0
Compression Indentation	Average Deformation at 1250 psi: 0.5-in. or Less
Falling Ball Impact	No Damage ^b
Bacteria Resistance	No Growth
Freeze Thaw Resistance	No Disintegration

For SI: 1 psi = 6.895 kPa, 1 lb/ft³ = 16.02 kg/m³, 1 inch = 25.4 mm

^a Based on a roofing nail with a 0.375-in. head diameter and a 0.121-in. shank diameter.

^b No damage to top or bottom surfaces after a ball drop from 12-in.



Figure 1—Example USG DUROCK® Cement