

USG DUROCK® BRAND CEMENT BOARD 1/4" UNDERLAYMENT



DESCRIPTION

1/4" USG Durock® cement board is an ideal substrate for floor and countertop ceramic tile installations. The 1/4" thickness helps eliminate transition trim when abutting carpet or wood flooring and minimize level variations with other finish materials. It can be applied directly over old substrate on countertops to save time. It features formed-smooth edges and square-cut ends.

PRODUCT DATA

SIZES AND PACKAGING

1/4"x3'x5', 60 pieces per unit

STANDARDS

USG Durock® cement board exceeds ANSI standards for cementitious backer units (CBU). See ANSI A118.9 for test methods and specifications for CBU and ANSI A108.11 for interior installation of CBU. Exceeds ASTM C1325 standards for nonasbestos fiber-mat reinforced cementitious backer units.

AVAILABILITY

USG Durock® cement board is distributed throughout the United States and Canada. Contact a USG sales office or sales person for additional information.

COMPOSITION AND MATERIALS

USG Durock® cement board is formed in a continuous process of aggregated portland cement slurry with polymer-coated, glass-fiber mesh completely encompassing edges, back and front surfaces. The edges are formed smooth. The ends are square cut.

ENVIRONMENTAL CONDITIONS

In cold weather and during USG Durock® cement panel and tile installation, temperatures within the building shall be maintained within the range of 40 to 100°F. Adequate ventilation shall be provided to carry off excess moisture.

DELIVERY AND STORAGE

All materials should be delivered and stored in their original unopened package and stored in an enclosed materials shelter providing protection from damage and exposure to the elements. Even though the stability and durability of USG Durock® cement board is unaffected by the elements, moisture and temperature variations may have an effect on the bonding effectiveness of basecoats and adhesives. Store all USG Durock® cement board panels flat.

INTERIOR APPLICATIONS

The building shall be enclosed and the HVAC system operating so that wood framing shall reach the moisture content it will reach in service. Do not install board when the board is wet.

PANEL MICROCRACKING

USG Durock® cement board is formulated to develop fine microcracking (also called multiplecracking) in the panel. The microcracking process helps to evenly relieve the stored strain energy in the product due to handling and installation, external loads, and/or panel restrained movement. The presence of microcracks in the panel should not be considered a product defect.

APPLICATIONS

FLOOR

- A. USG Durock® cement board should be cut to size with a knife and straight edge. A power saw should be used only if it is equipped with a dust-collection device. Installer should wear NIOSH/MSHA-approved dust mask.
- B. Laminate USG Durock® cement board to subfloor using Type 1 organic adhesive, latex-fortified mortar or dry-set mortar mixed with latex additive that is suitable for bonding cement backer board to plywood subfloor, with 1/4" square-notched trowel for mortar, 5/32" V-notched trowel for Type 1 organic adhesive. Place cement board with joints staggered from subfloor joints. Fit ends and edges closely, but not forced together, leaving a 1/8" gap. Fasten to subfloor with 1-1/4" USG Durock™ Brand Tile Backer Screws for wood framing or 1-1/2" hot-dipped galvanized roofing nails spaced 8" o.c. in both directions, with perimeter fasteners at least 3/8" and less than 5/8" from ends and edges. Drive nails and screws so bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners.

COUNTERTOP

Fasten minimum 3/4" APA span-rated plywood or OSB with an Exposure 1 classification or better across cabinet supports. Position ends and edges over supports. Staple film over the plywood base. Fasten USG Durock® cement board panels to plywood with 1-1/4" USG Durock™ Brand Wood Screws or 1-1/2" galvanized roofing nails spaced 8" o.c. in both directions and around edges. Fit ends and edges closely, but not forced together.

JOINT TREATMENT

Prefill joints with tile-setting mortar or adhesive and then immediately embed USG Durock™ Brand Tile Backer Tape and level joints.

LIMITATIONS

1. 1/4" USG Durock® cement board products are only for interior construction applied to minimum 5/8" APA span-rated plywood or OSB with an Exposure 1 classification or better.
2. Maximum framing spacing: 24" o.c. Maximum fastener spacing: 8" o.c.
3. Maximum design deflection: L/360 of the span. Some finish materials may require a more rigid subassembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements.
4. 1/4" USG Durock® cement board should not be used for wall or ceiling applications. For wall or ceiling applications, use 1/2" or 5/8" USG Durock® cement board.

PRODUCT INFORMATION

See usg.com for the most up-to-date product information.

DANGER

Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area, wear a NIOSH/MSHA-approved respirator. Wear protective gloves/protective clothing/eye protection. If swallowed, inhaled, or skin irritation occurs get medical attention. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Dispose of in accordance with local, state, and federal regulations. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

The trademarks USG, DUROCK, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.

NOTE

Products described here may not be available in all geographic markets. Consult your USG Company sales office or representative for information.

NOTICE

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

SAFETY FIRST!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

TECHNICAL DATA

Property	ASTM Test Reference	1/4" Value
Flexural strength	C947	>1000 psi
Indentation strength	D2394	>1250 psi
Weight	C473	<1.9 psf
Freeze/thaw resistance—procedure B, number of cycles with no deterioration	C666	100
Noncombustibility	E136	Pass
Surface-burning characteristics—flame/smoke	E84	0/0
Standard method for evaluating ceramic floor tile installation systems	C627	Light Commercial
Mold Resistance	D3273	10/10

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

800 USG.4YOU
800 (874-4968)
usg.com

Manufactured by
United States Gypsum Company
550 West Adams Street
Chicago, IL 60661

CB250-USA-ENG/5-18
© 2018 USG Corporation and/or
its affiliates. All rights reserved.
Printed in U.S.A.

USG
IT'S YOUR WORLD. BUILD IT.™