

# Durock® Cement Board

## 1/4" Underlayment



**1/4" Durock® cement board for floor and countertop applications**

- 1/4" thickness helps eliminate trim when abutting carpet or wood flooring
- Easy to cut and fasten
- Water-durable and mold-resistant
- Will not rot, warp, delaminate or disintegrate
- Non-combustible

**Description**

1/4" 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**

DUROCK cement boards are 1/4" thick and 3' x 5'. 60 pieces per unit.

**Standards**

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 non-asbestos fiber-mat reinforced cementitious backer units.

**Availability**

DUROCK cement board is distributed throughout the United States. Contact a United States Gypsum Company sales office or sales person for additional information.

**Composition and Materials**

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 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 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 DUROCK cement board panels flat.

**Interior Applications**

Wood framing shall approximate the moisture content it will reach in service by allowing the enclosed building to stand as long as possible prior to the application of the cement board. Do not install board when the board is wet.

**Panel Micro-Cracking**

DUROCK cement board is formulated to develop fine micro-cracking (also called multiple-cracking) in the panel. The micro-cracking 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 micro-cracks in the panel should not be considered a product defect.

<b>Applications</b>	<b>Floor</b>	<p>A. 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.</p> <p>B. Laminate DUROCK cement board to subfloor using Type 1 organic adhesive, latex-fortified mortar or dry-set mortar mixed with acrylic 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 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" DUROCK™ 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 that bottoms of heads are flush with panel surface to ensure firm panel contact with subfloor. Do not overdrive fasteners.</p>
	<b>Countertop</b>	Fasten minimum 3/4" plywood or OSB across cabinet supports. Position ends and edges over supports. Staple film over the plywood base. Fasten DUROCK panels to plywood with 1-1/4" DUROCK 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.
	<b>Joint Treatment</b>	Prefill joints with tile-setting mortar or adhesive and then immediately embed DUROCK™ tile backer tape and level joints.

<b>Limitations</b>	<ol style="list-style-type: none"> <li>1/4" DUROCK cement board products are only for interior construction applied to minimum 5/8" exterior-grade plywood or OSB.</li> <li>Maximum framing spacing: 24" o.c. Maximum fastener spacing: 8" o.c.</li> <li>Maximum design deflection: L/360 of the span. Some finish materials may require a more rigid sub-assembly (such as large format tile and natural stone products). In these cases, follow the manufacturer's minimum requirements.</li> <li>1/4" DUROCK cement board should not be used for wall or ceiling applications. For wall or ceiling applications, use 1/2" or 5/8" DUROCK cement board.</li> </ol>
--------------------	--

<b>Technical Data</b>	<b>Property</b>	<b>ASTM Test Reference</b>	<b>1/4" Value</b>
	Flexural strength—psi	C947	1000
	Indentation strength—psi	D2394	>1250
	Water absorption—% by weight 24 hours	C473	15
	Weight-psf	C473	<1.9
	Freeze/thaw resistance—procedure B, number of cycles with no deterioration	C666	100
	Non-combustibility	E136	Pass
	Surface burning characteristics—flame/smoke	E84	0/0
	Standard method for evaluating ceramic floor tile installation systems	C627	Light Commercial

**Product Information**

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

**Warning**

Portland cement is strongly alkaline. Direct contact can be corrosive and cause severe damage or chemical burns to the eyes and wet or moist skin. Avoid contact with eyes and skin. Wear eye protection, alkali-resistant protective gloves, long-sleeved shirts and pants to prevent direct contact. If eye contact occurs, immediately flush thoroughly with water for 30 minutes and seek

medical advice. Inhalation of dust may be corrosive or cause chemical burns or irritation to nose, throat and respiratory tract. Avoid breathing dust. Use in a well-ventilated area or provide sufficient local ventilation. If dusty, wear a NIOSH/MSHA-approved dust respirator. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. If cutting board with a power tool, use a wet or vacuum saw to reduce the amount of dust generated. Panels are heavy and can fall over, causing serious injury or death. Avoid creating

a tripping hazard and do not exceed floor limit loads. Long-term breathing of respirable crystalline silica dust can cause permanent lung damage and/or cancer. Product safety information: 800 507-8899 or usg.com.

**KEEP OUT OF REACH OF CHILDREN.**

**Trademarks**

The following trademarks are owned by United States Gypsum Company or its related companies: DUROCK, USG, USG in stylized letters.

**Note**

Products described here may not be available in all geographic markets. Consult your United States Gypsum 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 MSDS and literature before specification and installation.



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

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

CB250/rev. 4-11  
© 2011, United States Gypsum Company  
Printed in U.S.A.