

SHEETROCK® Brand Gypsum Panels—Water-Resistant



Ideal tile base for tub and shower area

- Economical base for adhesively applied wall tile.
- Water-resistant face paper, core, and back paper.
- Lightweight yet strong, easy to handle.
- For commercial and residential interiors.

Description

SHEETROCK® Brand Gypsum Panels—Water-Resistant, provide a water-resistant base for adhesive application of ceramic and plastic tile and plastic-faced wall panels. They are specially designed to minimize moisture problems in areas such as bathrooms, powder rooms, kitchens, and utility rooms. Panels are manufactured using a distinctive green multilayered face paper chemically treated to resist moisture, a water-resistant gypsum core, and a multilayered back paper treated to resist moisture.

SHEETROCK® Brand Gypsum Panels, Water-Resistant, have shallow tapered edges and are available in three types.

SHEETROCK® Brand Gypsum Panels, Water-Resistant

The 5/8" thick panel is recommended for single-layer construction, the 1/2" thickness for single-layer application in residential construction.

SHEETROCK® Brand Gypsum Panels, FIRECODE® Core, Water-Resistant

These 5/8" thick panels have a Type X core to provide fire resistance for ratings of UL Design Numbers U301, U302, U305, U321, U411, U504, U506, U512, U513, U515, U603, U604, U606, U607, U609, U615, U617, U622, U625, U633, X508, and X516.

SHEETROCK® Brand Gypsum Panels, FIRECODE® C Core, Water-Resistant

These 1/2" thick panels have a special core to provide fire resistance for UL Design Numbers U307, U317, U603, U612, and U613.

Advantages

Quick, Dry Installation Score-and-snap to size; rapid screw or nail attachment. Openings made as required, during or after application.

Fire Protection Gypsum core will not support combustion or transmit high temperatures until calcined.

Nonwarping Expansion and contraction under normal atmospheric changes are negligible and will not cause harmful warping or buckling. Note: See "Coefficients of Expansion" under "Product Data."

Moisture Resistant Multilayered paper and core provide three-level protection against water absorption. Help prevent later wall failure and loosening of tile.

Limitations

1. Panels require weather-protected storage. Not designed for permanent exterior exposure or to be subjected to sustained high moisture and ultraviolet light.
2. Ceiling framing must be 12" o.c. for 1/2" thick water-resistant panels and not more than 16" o.c. for 5/8" thick WR panels.
3. Not recommended for gang showers or commercial food processing areas subject to constant moisture. For these applications, DUROCK® Brand Cement Board is recommended (see publication SA932).
4. Single-layer resilient attachment is not recommended where tile is to be applied.
5. When used as a base for tile, Water-Resistant panels should be applied only to wood or steel framing or to base layer of SHEETROCK Brand Gypsum Panels, Water-Resistant. Never apply directly to other types of gypsum panels, plaster (gypsum or portland cement), or similar construction materials.
6. Panels should not be installed over a vapor retarder or on a wall acting as a vapor retarder.
7. When used as a painted surface, an alkyl-based paint should be used.

Directions

Environmental Conditions

In cold weather and during gypsum panel application and joint finishing, temperatures within the building shall be maintained within a range of 55 to 70 °F (13 to 21 °C). Adequate ventilation shall be provided to carry off excess moisture.

WARNING: Store all SHEETROCK Brand Gypsum Panels flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized.

Application

If necessary, fur out studs so inside face of shower receptor and panel surface are flush. Install blocking or headers to support tub and other plumbing fixtures, soap dishes, grab bars, towel racks, etc. If studs are spaced more than 16" o.c. or ceramic tile over 5/16" thick is used, place blocking between studs approximately 1" above top of tub or receptor and at midpoint between base and ceiling. For fire resistance and improved sound control, install gypsum panels below tub rim blocking to floor.



Place temporary 1/4" spacer strips around lip of fixture. Pre-cut panels to size and make cut-outs. Apply SHEETROCK® Brand Water-Resistant Compound or an approved waterproof, flexible sealant to all cut or exposed edges, then install panels horizontally with paperbound edge abutting top of spacer strip. Space nails 8" o.c. max. or screws 12" o.c. max. For ceramic tile more than 5/16" thick, space nails 4" o.c., screws 8" o.c. max.

For tile 5/16" thick or less, panels may be installed to wood or steel framing with a panel adhesive meeting ASTM C557. Apply 3/8" bead to stud faces—two beads on studs where panels join. Do not apply adhesive to blocking where no fasteners will be used. Position panel and drive nails or screws at 16" intervals around perimeter, 3/8" from edges. (For double-layer application, see publication SA924).

In areas to be tiled, treat joints and fastener heads with SHEETROCK® Brand Setting-Type (DURABOND® 45 or 90) or Lightweight Setting-Type (EASY SAND™ 45 or 90) Compound. Fill tapered edges in gypsum panels with compound, embed SHEETROCK® Brand Joint Tape firmly, and wipe off excess compound. When hardened, apply second or skim coat over taping coat, being careful not to crown the joint or leave excess compound on panel (DURABOND compound is difficult to sand and remove when dry). For butt joints and interior angles embed SHEETROCK Brand Joint Tape with SHEETROCK Brand Setting-Type (DURABOND 45 or 90) or Lightweight Setting-Type (EASY SAND 45 or 90) Joint Compound without crowning the joint. A fill coat is not necessary. Spot fastener heads at least once with one of the same setting-type joint compounds noted above.

Seal all openings around pipes, fittings, and fixtures with a coat of SHEETROCK Brand Water-Resistant Compound or an approved waterproof flexible sealant. With a one-inch brush, apply the compound to the raw gypsum panel core at cutouts. Allow areas to dry thoroughly prior to tile application. Before compound dries, wipe excess material from surface of gypsum panels. Remove spacer strips but do not caulk gap at bottom of panels. Install tile down to top edge of shower floor or tub and overlapping lip or return of tub or receptor.

For areas not to be tiled, embed tape with conventional SHEETROCK Brand Ready Mixed Joint Compounds, Taping and/or All Purpose, or SHEETROCK Brand Setting-Type (DURABOND 45 or 90) or Lightweight Setting-Type (EASY SAND 45 or 90) Joint Compound in the conventional manner. Finish with at least two coats of U.S. Gypsum Joint Compound to provide a treated surface for painting and wallpapering.

Fill all joints continuously with grout. Apply non-setting caulking compound, such as tub caulk, between wall surfacing material and shower floor, curb, or tub rim.

Where SHEETROCK Brand Gypsum Panels, Water-Resistant, are to be painted with a gloss enamel and subjected to critical lighting, it is recommended that the panel surface be skim-coated with a conventional joint compound prior to painting.

For additional information and complete specifications, see publication SA924.

Product Data	Weights (approximate)		Thickness		Weight	
		Core Type	in.	mm	lb./1000 ft.²	kg/100 m²
		Regular	1/2	12.7	1,960	960
			5/8	15.9	2,390	1,190
		FIRECODE	5/8	15.9	2,400	1,172
FIRECODE C	1/2	12.7	2,040	1,000		
Compliance with Standards:		ASTM C630.				
Thermal Coefficient of Expansion (Unrestrained):		9.0 x 10 ⁻⁶ in./in./°F (40-100 °F); 16.2 • 10 ⁻⁶ mm/mm/°C (4.5-37.8 °C); (16.2 µm/m/°C)				
Hygrometric Coefficient of Expansion (Unrestrained):		7.2 x 10 ⁻⁶ in./in. x % r.h. (5-90% r.h.); 7.2 x 10 ⁻⁶ mm/mm; (7.2 µm/m • % r.h.)				
Fire Hazard Classification:		Flame spread 20, smoke developed 0.				
Packaging:		2 panels per bundle.				
Submittal Approvals:	Job Name					
	Contractor					Date

Trademarks:

The following trademarks used herein are owned by United States Gypsum Company: DURABOND, EASY SAND, FIRECODE, SHEETROCK.

Note:

Products described here may not be available in all geographic markets. Consult your U.S. 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 and industrial hygiene practices during handling and installing all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.