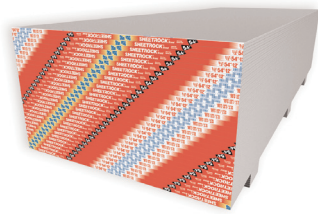


SHEETROCK® Gypsum Panels

54" Wide



For rooms with today's popular 9-foot ceilings

- Minimizes need for cutting and piecing of board.
- Reduces overall number of joints to be finished.
- Cuts down on hard-to-finish "mismatched" joints.
- Reduces labor, material, and waste-disposal needs for quicker finishing and lower costs.

Description

Most of the drywall in use today was designed for the homes being built right after World War II—homes with eight-foot ceilings throughout. In those days, two pieces of four-foot-wide gypsum panel added up to a perfect wall.

Times and tastes have changed, however, and the trend is toward higher ceilings. In many parts of the country, the majority of homes now being built have higher-than-eight-foot ceilings—at least on the main level of the house.

Building nine-foot walls with four-foot panels, of course, has meant cutting and piecing board to create that extra foot. In addition to waste and increased installation work, this procedure has also created finishing headaches. Not only does it result in an extra joint—it either places that joint in an awkward position (one-foot above the floor or below the ceiling), or (if the extra one-foot piece is placed in the middle) it results in a hard-to-finish "mismatched" joint (where the tapered edge of one panel meets the cut edge of the other). The outcome is more work, more waste, and a greater chance of joint problems that can mean expensive call-backs later on.

In contrast, two SHEETROCK Brand 54" (4-1/2') Gypsum Panels add up to one perfect nine-foot wall. (You can also combine a regular 4' panel and a 54" panel to create the 8'6" walls popular in some areas). Waste, extra cutting, extra finishing, and difficult joints become a thing of the past—while you continue to receive all the features and benefits provided by genuine SHEETROCK Brand Gypsum Panels from USG.

Advantages

Dry construction. Factory-fabricated gypsum panels eliminate excessive moisture in construction.

Low in-place cost. The easily cut gypsum panels apply quickly, permit painting or other decoration and the installation of metal or wood trim almost immediately.

Fire protection. The gypsum core will not support combustion or transmit temperatures greatly in excess of 212 °F until completely calcined—a slow process.

Crack resistance. With joints reinforced by one of USG's joint treatment systems, SHEETROCK Brand Gypsum Panels form walls and ceilings that are exceptionally resistant to cracks caused by structural, thermal, and hygrometric changes.

Nonwarping. Expansion or contraction under normal atmospheric changes is negligible—won't cause harmful buckling or warping.

Limitations

1. Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum panels are not recommended where they will be in contact with surfaces exceeding 125 °F (52 °C), such as in solar heating systems.
2. In order to attain fire-resistance ratings, the construction of partition and/or floor/ceiling assemblies must conform to the panel designs shown in the test report.
3. To prevent objectionable sag in new gypsum panel ceilings, the weight of overlaid unsupported insulation should not exceed: 1.3 psf for 1/2" panels with frame spacing 24" o.c.; 2.2 psf for 1/2" panels with frame spacing 16" o.c. or 5/8" panels with frame spacing 24" o.c. A vapor retarder should be installed in exterior ceilings, and plenum or attic spaces should be properly vented.
4. Application of SHEETROCK Brand panels over 3/4" wood furring applied across framing is not recommended, since the relative flexibility of the furring under the impact of the hammer tends to loosen nails already driven. Furring should be 2" x 2" minimum (may be a nominal 1" x 4" if panels are to be screw-attached).
5. Application of gypsum panels over an insulating blanket, installed continuously across the face of the framing members, is not recommended. Blankets should be recessed and blanket flanges attached to sides of studs or joists.

6. Painting systems—For satisfactory results, painting products and systems should be used which comply with the recommendations and requirements in the Appendices of ASTM C840.

For priming and decorating with paint, texture, or wall covering, follow manufacturer's directions for materials used. All surfaces, including applied joint compound, must be thoroughly dry, dust-free, and not glossy. A prime coat of SHEETROCK Brand First Coat or a good-quality interior latex flat wall paint with a high solids content should be applied undiluted and allowed to dry before decorating.

To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (eggshell, semigloss, or gloss), the gypsum panel surface should be skim-coated with joint compound to equalize suction before painting.

7. Maximum spacing of frame members for single-layer, new wood-frame construction is:

Panel Thickness	Location	Application method ⁽¹⁾	Maximum support Spacing o.c. (in./mm)	
1/2" (12.7 mm)	ceilings	parallel ⁽²⁾	16	406
		perpendicular	24 ⁽⁴⁾	610
	walls	parallel or perpendicular	24	610
5/8" (15.9 mm)	ceilings	parallel ⁽²⁾	16	406
		perpendicular	24	610
	walls	parallel or perpendicular	24	610

(1) Long edge relative to framing. (2) Not recommended below unheated spaces. (3) Not recommended if water-based texturing material is used. (4) Maximum spacing 16" (406 mm) for water-based texturing material application.

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.

Product Data

Thickness: 1/2" (12.7 mm) and 5/8" FIRECODE (Type X) (15.9 mm).

Width: 54" (1372 mm).

Lengths: 12' (3658 mm). Also available in other lengths from 8' to 16' (in some cases, minimum order may be required). Contact your USG representative for availability in your area.

Edges: Tapered (TE) and Smooth Wall (SW).

Compliance with standards: Meets ASTM C36 and C1396.

Thermal resistance "R": 0.45 °F x ft.² x h/Btu (0.08 K x m²/W).

Thermal coefficient of expansion, unrestrained, 40-100 °F (4-38 °C): 9.0 x 10⁻⁶ in./in./°F (16.2 x 10⁻⁶ mm/mm/°C) (16.2 µm/m/°C).

Hygrometric coefficient of expansion, unrestrained, 5-90% r.h.: 7.2 x 10⁻⁶ in./in./% r.h. (7.2 x 10⁻⁶ mm/mm/% r.h.) (7.2 µm/m/% r.h.).

Surface burning characteristics: Flame spread 15, 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: SHEETROCK.

Note

Products described here may not be available in all geographic markets. Consult your USG 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 installation of 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.



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WB1999/rev. 9-05
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Printed in U.S.A.