

# Sheetrock® Gypsum Panels



## Regular and Firecode® Cores

### Quality interior wall and ceiling panels at low cost

- Fire-resistant dry construction
- Quick installation and decoration
- Score and snap easily
- Resist cracking and warping
- Specialized types for all systems

### Description

SHEETROCK® brand gypsum panels are factory-fabricated, composed of a fire-resistant gypsum core encased in heavy natural-finish face paper and strong liner paper on the back side. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square-cut and finished smooth. Long edges of panels are tapered, allowing joints to be reinforced and concealed with a USG joint treatment system.

SHEETROCK gypsum panels are available with three core types for standard construction uses.

#### Regular core

With a regular core, available in three thicknesses for specific purposes.

**1/2" Panels** Recommended for single-layer application in residential construction.

**3/8" Panels** Lightweight, applied principally in the double-wall system over wood framing, and in repair and remodeling.

**1/4" Panels** Lightweight, low-cost, utility gypsum panels, used as base layer for improving sound control in double-layer steel and wood-stud partitions, and for use over old wall and ceiling surfaces. Also for forming curved surfaces with short radii.

#### FIRECODE® Core

**5/8" Type X Gypsum Panels** Provide additional fire resistance over regular panels.

#### FIRECODE C Core

**1/2" and 5/8" Type C Gypsum Panels** Specially formulated mineral core provides fire resistance superior to that offered by FIRECODE Core gypsum panels.

### Limitations

1. Avoid exposure to sustained temperatures exceeding 125 °F (52 °C).
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. Non-loadbearing.
4. Fire-resistance ratings achieved when assembled in accordance with UL designs.

### Finishing and Decorating

For high-quality finishing results, USG recommends the following products:

- SHEETROCK® ready-mixed joint compounds
- SHEETROCK® setting-type joint compounds
- SHEETROCK® joint tape
- SHEETROCK® First Coat primer
- SHEETROCK™ paper-faced metal bead and trim
- SHEETROCK® TUFF-HIDE™ primer-surfacer

Painting products and systems should be used which comply with recommendations and requirements in Appendixes 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. Prime with SHEETROCK First Coat primer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting and be decorated with a gloss paint (egg shell, semi-gloss or gloss), the gypsum panel

surface should be skim coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting. As an alternative to skim coating, or when a Level 5 finish is required, use SHEETROCK TUFF HIDE™ primer-surfacer.

**Product Data**

**Size:** 1/4", 3/8", 1/2" and 5/8" x 48" wide; 8'–14' long. 1/2" and 5/8" also available in 54" wide.

**Weight:** 1/4" – 1.2 lbs/sf; 3/8" – 1.4 lbs/sf; 1/2" – 1.6 lbs/sf; 5/8" – 2.2 lbs/sf.

**Thermal Resistance "R":** For 1/2" thickness: 0.45 °F x ft.<sup>2</sup> x h/Btu (0.08 K x m<sup>2</sup>/W).

**Thermal Coefficient of Expansion: Unrestrained: 40-100 °F (4-38 °C):**  
9.0 x 10<sup>-6</sup> in./in./°F (16.2 x 10<sup>-6</sup> mm/mm/°C) (16.2 μm/m/°C).

**Hygrometric Coefficient of Expansion: Unrestrained: 5-90% r.h.**  
7.2 x 10<sup>-6</sup> in./in./% r.h. (7.2 x 10<sup>-6</sup> mm/mm/% r.h.) (7.2 μm/m/% r.h.).

**Packaging:** 2 panels per bundle.

**Test Data**

**Surface Burning Characteristics:** Flame spread 15, smoke developed 0.

Maximum Frame Spacing Drywall Construction	Direct Application	Panel thickness <sup>(1)</sup>		Location	Application method <sup>(2)</sup>	Max. frame spacing o.c.	
		in.	mm			in.	mm
	Single-Layer	3/8	9.5	ceilings <sup>(3)</sup>	perpendicular <sup>(4)</sup>	16	406
parallel <sup>(4)</sup>					16	406	
1/2		12.7	ceilings	perpendicular	24 <sup>(5)(6)</sup>	610	
				parallel <sup>(4)</sup>	16	406	
5/8		15.9	sidewalls	parallel or perpendicular	24	610	
				parallel <sup>(4)</sup>	16	406	
Double-Layer	3/8	9.5	ceilings <sup>(7)</sup>	perpendicular	16	406	
				sidewalls	perpendicular or parallel	24 <sup>(8)</sup>	610
	1/2 and 5/8	12.7 and 15.9	ceilings	perpendicular or parallel	24 <sup>(8)</sup>	610	
				sidewalls	perpendicular	24 <sup>(8)</sup>	610

(1) 5/8" thickness is recommended for the finest single-layer construction, providing increased resistance to fire and transmission of sound; 1/2" for single-layer application in new residential construction and remodeling; and 3/8" for repair and remodeling over existing surfaces. (2) Long edge position relative to framing. (3) Not recommended below unheated spaces. (4) Not recommended if water-based texturing material is to be applied. (5) Max. spacing 16" if water-based texturing material is to be applied. (6) If 1/2" SHEETROCK® interior ceiling board is used in place of gypsum panels, max. spacing is 24" o.c. for perpendicular application with weight of unsupported insulation not exceeding 1.3 psf., 16" o.c. with weight of unsupported insulation not exceeding 2.2 psf. (7) Adhesive must be used to laminate 3/8" board for double-layer ceilings. (8) Max spacing 16" o.c. if fire rating required.

**Compliance**

Meets ASTM C1396.

**Submittal Approvals:**

<b>Job Name</b>		
	<b>Contractor</b>	<b>Date</b>

**Trademarks**  
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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.

