

SECTION 09 29 00 – GYPSUM BOARD, 1/4 in. (6.4 mm) and 3/8 in. (9.5 mm) USG Sheetrock® Brand Gypsum Panels

Product Summary:

- 1/4 in. (6.4 mm) panels are recommended as an additional layer for improving sound control in double-layer wood- or steel-framed partitions, and as a face layer for use over old wall and ceiling surfaces
- 3/8 in. (9.5 mm) panels are recommended in single- or double-layer wood- or steel-framed wall and ceilings, as an additional layer for improving sound control, and as a face layer for use over old wall and ceiling surfaces
- Feature a noncombustible gypsum core that is encased in 100% recycled face and back papers that form a high strength composite design
- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 1/4 in. (6.4 mm) and 3/8 in. (9.5 mm) gypsum wallboard
- Underwriters Laboratories Inc. (UL) Classification as to surface-burning characteristics and noncombustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)
- For more information, refer to product submittal sheet WB1473 and usg.com

Note to Specification Writers:

- This document is not intended to function as a standalone specification. It is intended to assist the specifier in inserting the proper language into the following recommended specification sections: 09 29 00 – GYPSUM BOARD.
- This product is manufactured at USG gypsum panel plants, reducing distances and carbon footprint for transport.
- Panels shall be installed in accordance with GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* and ASTM C840, *Standard Specification for Application and Finishing of Gypsum Board*.
- Contact USG at 800.874.4968 for technical questions.

PART 2 – GYPSUM PANEL PRODUCTS

2.1 GYPSUM PANEL

A. ASTM C1396, *Standard Specification for Gypsum Board*, for 1/4 in. (6.4 mm) and 3/8 in. (9.5 mm) gypsum wallboard

1. Basis of Design: Subject to compliance with project requirements, the design is based on the following: United States Gypsum Company, USG Sheetrock® Brand Gypsum Panels
2. UL Type Designation: [1/4 in. (6.4 mm): Not applicable] [3/8 in. (9.5 mm): Not applicable]
3. ASTM E136 Noncombustibility: Meets
4. ASTM E84 Surface-Burning Characteristics
 - a. Flame Spread: [1/4 in. (6.4 mm): 15] [3/8 in. (9.5 mm): 15]
 - b. Smoke Developed: [1/4 in. (6.4 mm): 0] [3/8 in. (9.5 mm): 0]
 - c. Class A (Flame spread not greater than 25 and smoke developed not greater than 450): Meets
5. ASTM C473, *Standard Test Methods for Physical Testing of Gypsum Panel Products*
 - a. Core Hardness
 - 1) Field: { 1/4 in. [6.4 mm] (Not less than 11 lbf (49 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 11 lbf (49 N)): Meets }
 - 2) End: { 1/4 in. [6.4 mm] (Not less than 11 lbf (49 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 11 lbf (49 N)): Meets }
 - 3) Edge: { 1/4 in. [6.4 mm] (Not less than 11 lbf (49 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 11 lbf (49 N)): Meets }
 - b. Flexural Strength
 - 1) Parallel: { 1/4 in. [6.4 mm] (Not less than 16 lbf (71 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 26 lbf (116 N)): Meets }
 - 2) Perpendicular: { 1/4 in. [6.4 mm] (Not less than 46 lbf (205 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 77 lbf (343 N)): Meets }
 - c. Nail Pull Resistance: { 1/4 in. [6.4 mm] (Not less than 36 lbf (160 N)): Meets } { 3/8 in. [9.5 mm] (Not less than 56 lbf (249 N)): Meets }



- d. Humidified Deflection: { 1/4 in. [6.4 mm] (Not required): Meets } { 3/8 in. [9.5 mm] (Not greater than 1-7/8 in. (48 mm)): Meets }
- 6. Thickness: [1/4 in. (6.4 mm)] [3/8 in. (9.5 mm)]
- 7. Length: 8-16 ft. (2438-4877 mm)
- 8. Width: 4 ft. (1219 mm)
- 9. Weight: [1/4 in. (6.4 mm): 1.2 lb./sq. ft. (5.9 kg/sq. m.)] [3/8 in. (9.5 mm): 1.4 lb./sq. ft. (6.8 kg/sq. m.)]
- 10. Edge: Tapered

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