

USG SHEETROCK® BRAND FIRECODE® C PANELS



DESCRIPTION

1/2 in. (12.7 mm) and 5/8 in. (15.9 mm) enhanced proprietary Type X panels for interior wall and ceiling applications

- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 1/2 in. (12.7 mm), 5/8 in. (15.9 mm) and Type X gypsum wallboard
- Underwriters Laboratories Inc. (UL) Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

INTENDED FOR

Available in 1/2 in. (12.7 mm) and 5/8 in. (15.9 mm) thicknesses, USG Sheetrock® Brand Firecode® C Panels (UL Type C) are enhanced proprietary Type X panels that feature a noncombustible gypsum core that is encased in 100% recycled face and back papers that form a high strength composite design. The face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems. The panels are UL Classified for fire resistance and can be used in any UL Design in which Type C panels are listed. On the face along the long edge of each panel, the UL Type Designation is printed for easy identification by building inspectors.

- Commercial or residential applications where 1/2 in. (12.7 mm) or 5/8 in. (15.9 mm) Type X or enhanced proprietary Type X panels are required
- New or repair and remodel construction
- Load-bearing and nonload-bearing wood- or steel-framed fire-rated walls and ceilings

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. Must be stored off the ground and under cover in accordance with Gypsum Association's GA-801, *Handling and Storage of Gypsum Panel Products*.

INTERIOR INSTALLATION, FINISHING AND DECORATING INSTALLATION

For maximum framing spacing in non-fire-resistance-rated applications of gypsum panel products, refer to Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* or ASTM C840, *Standard Specification for Application and Finishing of Gypsum Board*. For fire-resistance-rated applications, refer to the published UL Design or GA File Number.

Maximum Framing Spacing for Single-Layer Application

| Location | Gypsum Panel Thickness | Gypsum Panel Orientation to Framing | Maximum Framing Spacing OC |
|-----------------------|------------------------|-------------------------------------|----------------------------|
| Ceilings ¹ | 1/2 in. (12.7 mm) | Parallel | 16 in. (406 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| | 5/8 in. (15.9 mm) | Parallel | 16 in. (406 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| Walls | 1/2 in. (12.7 mm) | Parallel | 24 in. (610 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| | 5/8 in. (15.9 mm) | Parallel | 24 in. (610 mm) |
| | | Perpendicular | 24 in. (610 mm) |

**INTERIOR INSTALLATION,
FINISHING AND DECORATING, CONT.**
INSTALLATION

Maximum Framing Spacing for Multi-Layer Application Without Adhesive Between Layers

| Location | Gypsum Panel Thickness | Gypsum Panel Orientation to Framing | Maximum Framing Spacing OC |
|-----------------------|------------------------|-------------------------------------|----------------------------|
| Ceilings ¹ | 1/2 in. (12.7 mm) | Parallel | 16 in. (406 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| | 5/8 in. (15.9 mm) | Parallel | 16 in. (406 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| Walls | 1/2 in. (12.7 mm) | Parallel | 24 in. (610 mm) |
| | | Perpendicular | 24 in. (610 mm) |
| | 5/8 in. (15.9 mm) | Parallel | 24 in. (610 mm) |
| | | Perpendicular | 24 in. (610 mm) |

Note:

1. On ceilings to receive water-based texture material, 1/2 in. (12.7 mm) gypsum board shall be applied perpendicular to framing spaced 16 in. (406 mm) OC; 5/8 in. (15.9 mm) gypsum board shall be applied either parallel to framing spaced at 16 in. (406 mm) OC or perpendicular to framing spaced maximum 24 in. (610 mm) OC. See Appendix A.3 of Gypsum Association's GA-216, *Specifications for the Application and Finishing of Gypsum Panel Products* for more information.

FINISHING AND DECORATING

For high-quality finishing results, USG recommends USG Sheetrock® Brand finishing products.

Painting products and systems should be used that comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. Gypsum Association's GA-214, *Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels* should be referred to in order to determine the level of finishing needed to ensure a surface properly prepared to accept the final decoration.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with USG Sheetrock® Brand 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, or will be decorated with a gloss paint (eggshell, semigloss or gloss), the gypsum panel 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 USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer. See *USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer Submittal Sheet* (J1613) for limitations and application instructions.

For more information, refer to USG literature *Finishing & Decorating Gypsum Panels White Paper* (J2010).

TEST DATA
1/2 IN. (12.7 MM)

| Property | | ASTM Test Method | Requirement | UL Type C |
|--|-----------------|------------------|---|-----------|
| Noncombustibility | | E136 | Noncombustible | Meets |
| Surface-burning characteristics | Flame spread | E84 | Flame Spread Index, not greater than 25 ² | 15 |
| | Smoke developed | E84 | — | 0 |
| | Class A | E84 | Flame spread not greater than 25 and smoke developed not greater than 450 | Meets |
| Core hardness | Field | C473 (B) | Not less than 11 lbf (49 N) ² | Meets |
| | End | C473 (B) | Not less than 11 lbf (49 N) ² | Meets |
| | Edge | C473 (B) | Not less than 11 lbf (49 N) ² | Meets |
| Flexural strength | Parallel | C473 (B) | Not less than 36 lbf (160 N) ² | Meets |
| | Perpendicular | C473 (B) | Not less than 107 lbf (476 N) ² | Meets |
| Humidified deflection | | C473 | Not greater than 1-1/4 in. (32 mm) ² | Meets |
| Nail pull resistance | | C473 (B) | Not less than 77 lbf (343 N) ² | Meets |

Note:

2. Per ASTM C1396 for 1/2 in. (12.7 mm) gypsum wallboard.

TEST DATA, CONT.
5/8 IN. (15.9 MM)

| Property | | ASTM Test Method | Requirement | UL Type C |
|--|-----------------|------------------|---|-----------|
| Noncombustibility | | E136 | Noncombustible | Meets |
| Surface-burning characteristics | Flame spread | E84 | Flame Spread Index, not greater than 25 ³ | 15 |
| | Smoke developed | E84 | — | 0 |
| | Class A | E84 | Flame spread not greater than 25 and smoke developed not greater than 450 | Meets |
| Core hardness | Field | C473 (B) | Not less than 11 lbf (49 N) ³ | Meets |
| | End | C473 (B) | Not less than 11 lbf (49 N) ³ | Meets |
| | Edge | C473 (B) | Not less than 11 lbf (49 N) ³ | Meets |
| Flexural strength | Parallel | C473 (B) | Not less than 46 lbf (205 N) ³ | Meets |
| | Perpendicular | C473 (B) | Not less than 147 lbf (654 N) ³ | Meets |
| Humidified deflection | | C473 | Not greater than 5/8 in. (15.9 mm) ³ | Meets |
| Nail pull resistance | | C473 (B) | Not less than 87 lbf (387 N) ³ | Meets |

Note:

3. Per ASTM C1396 for 5/8 in. (15.9 mm) gypsum wallboard.

PRODUCT DATA

| | UL Type C | UL Type C |
|------------------------------------|-----------------------------------|-----------------------------------|
| Thickness | 1/2 in. (12.7 mm) | 5/8 in. (15.9 mm) |
| Lengths⁴ | 8-12 ft. (2438-3658 mm) | 8-12 ft. (2438-3658 mm) |
| Width | 4 ft. (1219 mm), 54 in. (1372 mm) | 4 ft. (1219 mm), 54 in. (1372 mm) |
| Weight⁵, nominal | 2.0 lb./sq. ft. (9.8 kg/sq. m.) | 2.5 lb./sq. ft. (12.2 kg/sq. m.) |
| Edges | Tapered | Tapered |
| Packaging | Two panels per bundle | Two panels per bundle |

Notes:

- Other sizes available by special order. Check with your local USG representative for availability.
- Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local USG representative or call the Customer Service Center at 800 950-3839.

COMPLIANCE

- Comply with ASTM C1396 for 1/2 in. (12.7 mm), 5/8 in. (15.9 mm) and Type X gypsum wallboard
- Classified as a Class A Interior Finish Material per Section 803.1 of the International Building Code® (IBC®)
- UL Classification as to fire resistance, surface-burning characteristics and noncombustibility
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)

SUBMITTAL APPROVALS

| | |
|-------------------|-------------|
| Job Name | |
| Contractor | Date |

PRODUCT INFORMATION

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

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

CAUTION

Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Do not swallow. If swallowed, call a physician. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.

KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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NOTE

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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 Safety Data Sheets and related literature on products before specification and/or installation.



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