

CGC SHEETROCK® BRAND FIRECODE® C PANELS



DESCRIPTION

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

- Comply with ASTM C1396, *Standard Specification for Gypsum Board*, for 12.7 mm (1/2 in.), 15.9 mm (5/8 in.) and Type X gypsum wallboard
- Underwriters Laboratories Inc. (cUL) 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 12.7 mm (1/2 in.) and 15.9 mm (5/8 in.) thicknesses, CGC 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 CGC Sheetrock® or Synko® Brand joint treatment systems. The panels are cUL 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 12.7 mm (1/2 in.) or 15.9 mm (5/8 in.) 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 52°C (125°F).
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	12.7 mm (1/2 in.)	Parallel	406 mm (16 in.)
		Perpendicular	610 mm (24 in.)
	15.9 mm (5/8 in.)	Parallel	406 mm (16 in.)
		Perpendicular	610 mm (24 in.)
Walls	12.7 mm (1/2 in.)	Parallel	610 mm (24 in.)
		Perpendicular	610 mm (24 in.)
	15.9 mm (5/8 in.)	Parallel	610 mm (24 in.)
		Perpendicular	610 mm (24 in.)

**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	12.7 mm (1/2 in.)	Parallel	406 mm (16 in.)
		Perpendicular	610 mm (24 in.)
	15.9 mm (5/8 in.)	Parallel	406 mm (16 in.)
		Perpendicular	610 mm (24 in.)
Walls	12.7 mm (1/2 in.)	Parallel	610 mm (24 in.)
		Perpendicular	610 mm (24 in.)
	15.9 mm (5/8 in.)	Parallel	610 mm (24 in.)
		Perpendicular	610 mm (24 in.)

Note:

1. On ceilings to receive water-based texture material, 12.7 mm (1/2 in.) gypsum board shall be applied perpendicular to framing spaced 406 mm (16 in.) OC; 15.9 mm (5/8 in.) gypsum board shall be applied either parallel to framing spaced at 406 mm (16 in.) OC or perpendicular to framing spaced maximum 610 mm (24 in.) 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, CGC recommends CGC Sheetrock® or Synko® Brand interior 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 CGC Sheetrock® Brand First Coat™ Primer, Synko® Brand Pre-Coat™ Drywall Surface Equalizer 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 CGC Sheetrock® Brand Tuff-Hide™ Primer-Surfacer. See CGC Sheetrock® Brand Tuff-Hide™ Primer-Surfacer Submittal Sheet (JC0156) for limitations and application instructions.

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

TEST DATA
12.7 mm (1/2 in.)

Property	Test Method	Requirement	UL Type C	
Noncombustibility	CAN/ULC-S114	Noncombustible	Meets	
Surface-burning characteristics	Flame spread	CAN/ULC-S102	Flame Spread Index, not greater than 25	15
	Smoke developed	CAN/ULC-S102	N/A ²	0
Core hardness	Field	ASTM C473 (B)	Not less than 11 lbf (49 N) ²	Meets
	End	ASTM C473 (B)	Not less than 11 lbf (49 N) ²	Meets
	Edge	ASTM C473 (B)	Not less than 11 lbf (49 N) ²	Meets
Flexural strength	Parallel	ASTM C473 (B)	Not less than 36 lbf (160 N) ²	Meets
	Perpendicular	ASTM C473 (B)	Not less than 107 lbf (476 N) ²	Meets
Humidified deflection	ASTM C473	Not greater than 32 mm (1-1/4 in.) ²	Meets	
Nail pull resistance	ASTM C473 (B)	Not less than 77 lbf (343 N) ²	Meets	

Note:

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

TEST DATA, CONT.
15.9 mm (5/8 in.)

Property	Test Method	Requirement	UL Type C
Noncombustibility	CAN/ULC-S114	Noncombustible	Meets
Surface-burning characteristics	Flame spread	CAN/ULC-S102	Flame Spread Index, not greater than 25
	Smoke developed	CAN/ULC-S102	N/A ³
Core hardness	Field	ASTM C473 (B)	Not less than 11 lbf (49 N) ³
	End	ASTM C473 (B)	Not less than 11 lbf (49 N) ³
	Edge	ASTM C473 (B)	Not less than 11 lbf (49 N) ³
Flexural strength	Parallel	ASTM C473 (B)	Not less than 46 lbf (205 N) ³
	Perpendicular	ASTM C473 (B)	Not less than 147 lbf (654 N) ³
Humidified deflection	ASTM C473	Not greater than 15.9 mm (5/8 in.) ³	Meets
Nail pull resistance	ASTM C473 (B)	Not less than 87 lbf (387 N) ³	Meets

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

PRODUCT DATA

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

Notes:
4. Other sizes available by special order. Check with your local CGC representative for availability.
5. Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local CGC representative or call the Customer Service Center at 800 387-2690 (English) or 800 361-1310 (French).

COMPLIANCE

- Comply with ASTM C1396 for 12.7 mm (1/2 in.), 15.9 mm (5/8 in.) and Type X gypsum wallboard
- cUL 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 cgcinc.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 please visit cgcinc.com to view the Safety Data Sheet (SDS).
KEEP OUT OF REACH OF CHILDREN.

TRADEMARKS

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NOTE

Products described here may not be available in all geographic markets. Consult your CGC Inc. sales office or representative for information. The information in this document is subject to change without notice. CGC Inc. assumes no responsibility for any errors that may inadvertently appear in this document.

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.



800 387-2690 - English
800 361-1310 - French
cgcinc.com

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