



# CGC SHEETROCK® BRAND GLASS-MAT PANELS MOLD TOUGH® REGULAR AND FIRECODE® X

## DESCRIPTION

### High-performance interior wall panels with water and mould resistance

- Suitable for use in pre dry-in (aka "pre-rock") and similar applications of gypsum panels before the building envelope is fully enclosed
- For use in interior applications where glass-mat gypsum panels are desired
- Features an inorganic glass fibre face and back
- Can be used in protected exterior soffit applications
- Scores and snaps easily for quick installation
- Installs and finishes similar to standard drywall
- ULC Listed and cUL Classified as to fire resistance, surface burning characteristics and noncombustibility

CGC Sheetrock® Brand Glass-Mat Panels Mold Tough® are high-performance interior panels for new construction or renovation work. The panels have a noncombustible water and mould-resistant core encased in a moisture-resistant fiberglass mat that sheds water and features tapered long edges for easy finishing. The facer mat is coloured to match traditional drywall and is engineered to accept the application of CGC/Synko® Brand finishing systems. The back mat features CGC's distinctive green colour. The 15.9 mm (5/8") Firecode® X is ULC Listed and cUL Classified for fire resistance and can be used in any ULC and cUL designs where Type SGX panels are listed.

## ADVANTAGES

**Mould-Resistant:** Scores a 10 (highest) when tested in accordance with ASTM D3273.

**Resists Water:** Water-resistant gypsum core with water shedding glass-mat on both sides. Can be used as a water-resistant backing board for ceramic tile in residential tub and shower enclosures as permitted in the National Building Code of Canada 9.29.10.4

**Quick Installation:** Simple score-and-snap, no sawing or special tools required.

**Warranted Performance:** CGC Sheetrock® Glass-Mat Panels Mold Tough can be exposed to weather for up to 12 months and are guaranteed for 3 years against manufacturing defects. See Warranty for details.

## LIMITATIONS

1. Avoid sustained exposure to temperatures exceeding 52 °C (125 °F).
2. Maximum framing spacing is 610 mm (24") o.c.
3. Intended for interior applications only and must be kept dry during handling and storage. Please see GA-216, ASTM C840 and CAN/CSA-A.82.31 for handling and installation guidelines including minimum 6 mm (1/4") gap from floor.
4. Pre-dry-in applications, temporary exposure to conditions such as wind pressure and moisture may influence the selection and spacing of fasteners and/or framing. Please reference (EWB2665) for more information about pre-dry-in installation of gypsum drywall.
5. CGC Sheetrock® Glass-Mat Panels Mold Tough offer resistance to normal weather conditions, but are not intended for constant exposure to water. Protect from immersion in water and the eroding effects of cascading water.
6. The building must be dried-in prior to installation in soffits and other horizontal applications.
7. Wall cavities, floor cavities and other enclosed areas must be dry prior to being closed-up and application of interior finishing. Insulation in the wall or floor cavities must be dry.

## LIMITATIONS (CONTINUED)

8. Not suitable for use as a substrate for tile in commercial or institutional wet areas such as tubs and showers, gang showers, and other areas subject to direct water exposure. Not to be installed in areas exposed to continuous high humidity such as indoor pools or spaces subject to open or standing water. Use as wall tile substrate is limited to tile installed according to current TTMAC, TCNA and ANSI specifications. Please consult with the adhesive and tile manufacturers for their recommendations for maximum size and weight parameters for use with gypsum drywall.
9. For protected exterior ceiling and soffit applications, the panels must be protected from direct exposure to weather. Please refer to the *CGC Gypsum Construction Handbook* for installation recommendations.

## FINISHING AND DECORATING

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

- CGC/Synko® Ready-Mixed Joint Compounds
- CGC/Synko® Setting-Type Joint Compounds
- CGC/Synko® Joint Tape
- CGC Sheetrock®/Beadex® Paper Faced Metal Drywall Bead and Trim
- CGC Sheetrock® First Coat™ Drywall Primer or CGC Synko® Pre-Coat Drywall Surface Equalizer
- CGC Sheetrock® Tuff-Hide™ Primer-Surfacer

Panels should not be finished until building is completely enclosed. The nature of the texture and absorption properties of the panel will require an additional skim coat of the entire panel surface with joint compound in most applications. Because it is possible that more than one skim coat be necessary for certain applications, an aesthetic benchmark or mock-up is recommended for establishing and demonstrating an approved finishing system to coordinate the expectations of the design professionals with those of the contracted workforce. The finished appearance of the constructed standard should be approved in advance of any widespread work. Please reference *CGC Finishing and Decorating Glass-Mat Gypsum Panels* (EWB2646) for more information.

Painting products and systems should be used which 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 GA-214-2015, *Recommended Specification for Levels of Gypsum Board, Glass-Mat and Fiber-Reinforced Gypsum Panels Finish* 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® First Coat™ Drywall Primer, CGC Synko® Pre-Coat Drywall Surface Equalizer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

## PRODUCT DATA

**Labeling:** Each 15.9 mm (5/8") Firecode® X panel bears the ULC and cUL label mark as evidence of UL Classifications for fire resistance, surface-burning characteristics and non-combustibility.

Properties	Regular	Firecode X
<b>Thickness, mm (in.)</b>	12.7 mm (1/2")	15.9 mm (5/8")
<b>Lengths and Widths<sup>1</sup></b>	1220 mm (48") wide – 2440 mm (8'), 2745 mm (9'), 3050 mm (10'), 3660 mm (12')	1220 mm (48") wide – 2440 mm (8'), 2745 mm (9'), 3050 mm (10'), 3660 mm (12')
<b>Weight<sup>2</sup> nominal, kg/m<sup>2</sup> (lbs/sq.ft)</b>	9.8 kg /m <sup>2</sup> (2.0 lb./ft <sup>2</sup> )	11.7 kg /m <sup>2</sup> (2.4 lb./ft <sup>2</sup> )
<b>Edges</b>	Tapered	Tapered
<b>Packaging</b>	2 panels per bundle	2 panels per bundle
<b>Linear expansion with moisture change mm/mm %RH (in/in %RH)</b>	6.25 x 10 <sup>-6</sup>	6.25 x 10 <sup>-6</sup>
<b>Coefficient of thermal expansion mm/mm/°C (in/in/°F)</b>	15.3 x 10 <sup>-6</sup> (8.5 x 10 <sup>-6</sup> )	15.3 x 10 <sup>-6</sup> (8.5 x 10 <sup>-6</sup> )
<b>Flexural strength, parallel, N (lbf.)</b>	>356 (80)	>444 (100)
<b>Flexural strength, perpendicular, N (lbf.)</b>	>444 (100)	>786 (177)
<b>R Value, ft<sup>2</sup>·°F·hr/BTU</b>	0.5	0.5
<b>Combustibility (per CAN/ULC-S114)</b>	Noncombustible	Noncombustible
<b>Nail pull resistance N (lbf.)</b>	>356 (80)	400 (90)
<b>Hardness core, edges and ends, N (lbf.)</b>	>67 (15)	>67 (15)
<b>Water absorption (% of weight)</b>	<5	<5
<b>Surface water absorption</b>	<1.6 grams	<1.6 grams
<b>Surface burning characteristics (per CAN/ULC-S102) flame spread/smoke developed</b>	0/5	0/5
<b>Humidified deflection</b>	<6 mm (1/4")	<3 mm (1/8")
<b>Bending radius</b>	2440 mm (8')	2440 mm (8')

1. Other sizes available by special order. Check with your local CGC representative for availability.

2. 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 Centre at 1-800-387-2690.

## TEST DATA

**Moisture and Mould Resistance:** CGC Sheetrock® Brand Glass-Mat Panels Mold Tough® resist water and mould and comply with ASTM C1658 section 7.1.4 for water resistance. They also meet the water resistance gypsum backing board as per prescribed in ASTM C1396 and CAN/CSA A82.27. Per ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion. In independent lab tests conducted on CGC Sheetrock® Glass-Mat Panels Mold Tough at the time of manufacture per ASTM D3273, *Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber*, the panel score was 10.

This ASTM lab test may not accurately represent the mould performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mould. To manage the growth of mould, the best and most cost-effective strategy is to protect building products from moisture exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

## COMPLIANCE

- CGC Sheetrock® Glass-Mat Panels Mold Tough comply with ASTM C1658 section 7 and ASTM C 1177.
- 15.9 mm (5/8") Firecode® X complies with ASTM Type X definition for performance in generic fire-rated systems.
- Classified noncombustible per CAN/ULC-S114.
- Surface Burning Characteristics per CAN/ULC-S102; flame spread is 0, smoke developed is 5.
- ULC Classified Type SGX.
- Qualifies as a low VOC emitting material.

The 15.9 mm (5/8") Firecode X panel is ULC Listed and cUL Classified as to fire resistance and surface burning characteristics. Can be used in ULC fire-rated designs U301, W301, W407, W423, W449, W451, W452, W453, W454, W465, W479 and cUL designs; U305, U404, U408, U411, U415, U419, U423, U424, U425, U433, U493, V304, W410, X508, ULC W301 and cUL U305 – 1 hr. load-bearing wood-framed walls, ULC W452 and cUL U415 – 1-4 hr. cavity shaftwall system and System B-Cavity shaftwall 2 hr., ULC W453 and cUL U419 – 1-4 hr. non-load-bearing steel-framed walls, cUL U423 – 1 and 2 hr. load-bearing steel-framed walls ULC U301 – 2 hr. load-bearing wood-framed walls.

### PRODUCT INFORMATION

See [cgccinc.com](http://cgccinc.com) for the most up-to-date product information.

### TRADEMARKS

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### NOTE

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### NOTICE

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### 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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