

**Manufacturer**

Georgia-Pacific Gypsum Georgia-Pacific Canada  
133 Peachtree Street 2180 Meadowvale Boulevard, Suite 200  
Atlanta, GA 30303 Mississauga, ON L5N 5S3  
Technical Service Hotline: 1-800-225-6119

**Description**

**ToughRock® Fireguard X™ and ToughRock® Fireguard C® Gypsum Board** have noncombustible (per ASTM E136 or CAN/ULC S114), dimensionally stable gypsum cores. The core has been reinforced with the addition of glass fibers, increasing its strength and its resistance to the passage of heat. The surfacings on both faces and on the long edges are 100% recycled paper. The front face paper is white; the back face paper is gray. The ends are square cut.

Georgia-Pacific ToughRock Gypsum Board products are GREENGUARD and GREENGUARD Gold Certified for low emissions of volatile organic compounds (VOCs). They are listed in CHPS® High Performance Product Database as low emitting products.

**Primary Uses**

ToughRock Fireguard X and Fireguard C Gypsum Board are wall or ceiling covering materials for use in building construction. Both are designed for direct mechanical attachment to wood or metal framing for use in building assemblies with a designated fire resistance rating.

A specially formulated gypsum core which includes glass fibers enables ToughRock Fireguard X and Fireguard C Gypsum Board to help protect framing members from the spread of fire. With joints covered, ToughRock Fireguard X and Fireguard C Gypsum Board will resist the passage of smoke.

ToughRock Fireguard X and Fireguard C Gypsum Board are manufactured with a paper surfacing designed to be receptive to joint treatment, paint, wall covering, or textured coatings.

**Limitations**

- ToughRock Fireguard X and Fireguard C Gypsum Board are nonstructural products and should not be used as a nailing base or to support heavy wall mounted objects.
- They are intended for interior applications and must be kept dry and clean and not used where exposure to moisture is extreme or continuous.
- Do not use ToughRock Fireguard X and Fireguard C Gypsum Board where there is prolonged exposure to temperatures exceeding 125°F (52°C) and/or continuous exposure to extreme humidity, e.g., located adjacent to wood-burning stoves, heating appliances, electric lighting and hot air flues.

**Applicable Standards**

Manufactured to meet ASTM C1396 Section 5, CSA-A82.27-M; Federal SS-L-30D, Type III, Grade X and SS-6-30D.

**Building Code Conformity**

ToughRock Fireguard X and Fireguard C Gypsum Board conform to the requirements of uniform IBC/IRC building codes for its intended use.

**Sizes**

|                    | Fireguard X™             | Fireguard C®             | Fireguard C®             |
|--------------------|--------------------------|--------------------------|--------------------------|
| Thickness, nominal | 5/8" (15.9 mm)           | 5/8" (15.9 mm)           | 1/2" (12.7 mm)           |
| Widths, nominal    | 48" (1220 mm)            | 48" (1220 mm)            | 48" (1220 mm)            |
| Lengths, standard  | 8'-14'<br>(2440-4270 mm) | 8'-14'<br>(2440-4270 mm) | 8'-14'<br>(2440-4270 mm) |

**Edges**

Tapered, square, or tapered with rounded edges.

**Supplemental Materials**

Corner beads and trim, expansion joints, joint tape, joint compound.

**Technical Data**

Flame spread rating of 15 and smoke developed 0, when tested in accordance with ASTM E84. The core is noncombustible when tested in accordance with ASTM E136.

The 5/8" (15.9 mm) ToughRock Fireguard X is UL classified, Type X.

The 1/2" (12.7 mm) ToughRock Fireguard C is UL Type TG-C, and ULC classified, Type C.

The 5/8" (15.9 mm) ToughRock Fireguard C is UL Type TG-C, and ULC classified, Type C.

**Fire Resistance Ratings**

ToughRock Fireguard X and Fireguard C Gypsum Board meet the criteria for Type X special fire resistance, as defined in ASTM C1396. ToughRock Fireguard X and Fireguard C Gypsum Board are classified for fire-rated assemblies by Underwriters Laboratories LLC (UL).

**Sound Control**

ToughRock Fireguard X and Fireguard C Gypsum Board can achieve designated Sound Transmission Class (STC) values when used in properly designed constructions.

Sound rated assemblies require sealing at top, bottom, intersections and other locations where sound leaks may develop.

**Application Standards**

ToughRock Fireguard X and Fireguard C Gypsum Board may be applied according to the Gypsum Association Publication GA-216 or ASTM C840 for non-fire rated construction.

For fire resistance rated construction application regarding board orientation, fastener type and spacing shall be consistent with the tested construction details for Type X Gypsum Board. These details are published in the Gypsum Association "Fire Resistance Design Manual GA-600," "UL Fire Resistance Directory," and "Intertek Testing Services/Warnock Hersey Listings Directory."

**Handling Precautions**

Stack gypsum board flat on a level surface. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. Appropriate handling is also outlined in Gypsum Association Publications GA-216 and GA-801.

Take care to avoid impact, undue flexing, and subsequent damage to board edges, ends, and corners. Avoid scuffing the face to be finished.

**Handling and Use—Caution**

This product may contain fiberglass which may cause skin irritation. Dust and fibers produced during the handling and installation of the product may cause skin, eye and respiratory tract irritation. Avoid breathing dust and minimize contact with skin and eyes. Wear long sleeve shirts, long pants and eye protection. Always maintain adequate ventilation. Use a dust mask or NIOSH/MSHA approved respirator as appropriate in dusty or poorly ventilated areas.

**Material Safety Data Sheet**

Material Safety Data Sheet (MSDS) is available upon request or online at www.buildgp.com/safetyinfo.

*continued* →

**Submittal Approvals**

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Date \_\_\_\_\_

### Board Decoration—Application Standards

ToughRock® Fireguard X™ and Fireguard C® Gypsum Board are designed to accept most types of paints, texture and wall covering materials. Georgia-Pacific Gypsum strongly recommends priming the surface with a full-bodied, quality latex primer before applying a final decorative material. Priming will equalize the suction variation between the joint compounds and the paper surface. If glossy paints are used in such areas as kitchens or bathrooms, skim coat joint compound over the entire surface to reduce highlighting or joint photographing. This method is also recommended in areas with severe natural or artificial side lighting.

Georgia-Pacific Gypsum recommends application of a sealer prior to applying wallpaper or other wall covering to the board so that the board surface will not be damaged if the covering is subsequently removed during redecorating. Joint treatment must be thoroughly dry before proceeding with primer application and final decoration. Refer to Gypsum Association Publications GA-214 and GA-216 for joint treatment and finishing recommendations.

### Physical Properties

| Properties   | ToughRock® Fireguard X™                                     | 5/8" ToughRock® Fireguard C®                      | 1/2" ToughRock® Fireguard C®                      |
|--|---|---|---|
| Thickness, nominal inches  | 5/8" (15.9 mm), ± 1/64" (0.4 mm)                            | 5/8" (15.9 mm), ± 1/64" (0.4 mm)                  | 1/2" (12.7 mm), ± 1/64" (0.4 mm)                  |
| Width, nominal   | 4' (1220 mm), 54" (1372 mm), 60" (1524 mm) ± 3/32" (2.4 mm) | 4' (1220 mm) ± 3/32" (2.4 mm)                     | 4' (1220 mm) ± 3/32" (2.4 mm)                     |
| Length, Standard   | 8' (2440 mm) to 14' (4270 mm), ± 1/4" (6.4 mm)              | 8' (2440 mm) to 14' (4270 mm), ± 1/4" (6.4 mm)    | 8' (2440 mm) to 14' (4270 mm), ± 1/4" (6.4 mm)    |
| Weight <sup>1</sup> , lbs./sq. ft., nominal (kg/m <sup>2</sup> )   | 2.2 (10.7)  | 2.3 (11.2)  | 2.0 (9.0)   |
| Edges  | Tapered, square or tapered with rounded edges               | Tapered, square or tapered with rounded edges     | Tapered, square or tapered with rounded edges     |
| Flexural Strength <sup>2</sup> spacing, min.                       |   |   |   |
| Parallel, lbf. (N)   | ≥ 46 (205)  | ≥ 46 (205)  | ≥ 36 (160)  |
| Perpendicular, lbf. (N)  | ≥ 147 (654)   | ≥ 147 (654)                                       | ≥ 107 (476)                                       |
| R Value, ft <sup>2</sup> •°F•hr/BTU (m <sup>2</sup> •K/W)          | 0.56 est. (0.10)  | 0.56 est. (0.10)                                  | 0.48 est. (0.08)                                  |
| Nail Pull Resistance <sup>2</sup> , minimum, lbf. (N)              | ≥ 87 (387)  | ≥ 87 (389)  | ≥ 77 (343)  |
| Hardness <sup>2</sup> , lbf. (N) (core, edges and ends)            | ≥ 15 (67)   | ≥ 15 (67)   | ≥ 15 (67)   |
| Humidified Deflection <sup>2</sup> , max.                          | 5/8" (16 mm)  | 5/8" (16 mm)                                      | 10/8" (32 mm)                                     |
| Packaging  | Two pieces per bundle, face-to-face and end taped           | Two pieces per bundle, face-to-face and end taped | Two pieces per bundle, face-to-face and end taped |
| Surface Burning Characteristics <sup>3</sup> (per ASTM E84)        |   |   |   |
| Flame Spread   | 15  | 15  | 15  |
| Smoke Developed  | 0   | 0   | 0   |
| (Core is noncombustible when tested in accordance with ASTM E136.) |   |   |   |

<sup>1</sup> Represents approximate weight for design and shipping purposes. Actual weight may vary depending on manufacturing location and other factors.

<sup>2</sup> Specified minimum values are as defined in ASTM C1396.

<sup>3</sup> Products qualify for NFPA Class A or IBC Class 1.



U.S.A. Georgia-Pacific Gypsum LLC  
Georgia-Pacific Gypsum II LLC  
Canada Georgia-Pacific Canada LP

#### SALES INFORMATION AND ORDER PLACEMENT

U.S.A. West: **1-800-824-7503**  
Midwest: **1-800-876-4746**  
South Central: **1-800-231-6060**  
Southeast: **1-800-327-2344**  
Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**  
Quebec Toll Free: **1-800-361-0486**

#### TECHNICAL INFORMATION

U.S.A. and Canada: **1-800-225-6119**, www.gpgypsum.com

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**WARRANTIES, REMEDIES AND TERMS OF SALE** For current warranty information for this product, please go to www.gpgypsum.com and select the product for warranty information. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.gpgypsum.com.

**UPDATES AND CURRENT INFORMATION** The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

**CAUTION** For product fire, safety and use information, go to [www.buildgp.com/safetyinfo](http://www.buildgp.com/safetyinfo) or call 1-800-225-6119.

**FIRE SAFETY CAUTION** Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.