

Manufacturer

Georgia-Pacific Gypsum LLC
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Atlanta, GA 30303
Technical Service Hotline: 1-800-225-6119

Description

ToughRock® Fireguard X® Mold-Guard™ MAX-Abuse Gypsum Board is designed for wall and ceiling assemblies in high-traffic areas where surface durability and indentation resistance are especially important, such as schools, hospitals, corrections facilities and offices. It also offers enhanced protection, compared to traditional paper face gypsum board, against mold and moisture exposure that can cause deterioration and/or stains. ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board is specially formulated to offer greater resistance to abrasion, rubbing, scraping, gouging and indentation on the surface.

Georgia-Pacific ToughRock Gypsum Board products are GREENGUARD and GREENGUARD Gold Certified for low emissions of volatile organic compounds (VOCs).

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board consists of a noncombustible (per ASTM E136), dimensionally stable gypsum core formed between a face layer of heavy, smooth, abuse-resistant paper and a back layer of heavy liner paper. The heavy-duty face paper is highly resistant to scuffing when sanding joints and fasteners and provides a superior surface for decoration. It readily accepts a wide range of decorative finishes.

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board has a Type X core (per ASTM C1396) that may be used in many fire-rated assemblies.

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board comes from the factory as a ready-to-finish product. The long edges are tapered. After installation, ends, edges, corners and fastener heads are normally concealed with joint treatment to produce a smooth, seamless surface prior to final decoration.

Advantages

- Highly resistant to abuse. Offers greater resistance to abrasion, gouging and impact on the surface compared to regular gypsum board.
- Low installation cost. Easy-to-install; goes up quickly and finishes easily when compared to block construction.
- Classified for fire resistance ratings. Core meets criteria for Type X as defined in ASTM C1396. See fire resistance directory for listings and additional information.

Moisture and Mold Resistance

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board is designed to provide extra protection against mold and mildew compared to traditional paper-faced gypsum board products. When tested, as manufactured, per ASTM D3273 (“Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber”), ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board achieved a score of 10, the best possible score for this test.

The use of ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board in actual installations may not produce the same results as were achieved in controlled, laboratory conditions. No material can be considered “mold-proof”, nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board can provide increased mold resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

Product Specification

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board is manufactured to meet the requirements of ASTM C1396 Section 7, 12; CSA A82.27-M; Federal Specification SS-L-30D Type III Grade W, X; abuse resistant when tested in accordance with ASTM C1629; and conforms to the requirements of uniform IBC/IRC and NBCC building codes pertaining to Type X gypsum board.

Limitations

- ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board is a non-structural product and should not be used as a nailing base to support heavy wall-mounted objects.
- It is intended for interior applications only.
- It must be kept dry and cannot be used where exposure to moisture is extreme or continuous.
- Do not use ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board where there is prolonged exposure to temperatures exceeding 125°F (52°C) and/or continuous exposure to extreme humidity, e.g., adjacent to radiant heating systems, wood-burning stoves, heating appliances, saunas or steam rooms.

Abuse Resistance

- Surface Abrasion:* Level 3* Tested in accordance with ASTM C1629.
- Indentation Resistance:* Level 1 Tested in accordance with ASTM C1629.
- Soft-body Impact:* Level 2 Tested in accordance with ASTM C1629.
- Hard-body Impact:* Level 1 Tested in accordance with ASTM C1629.

Product Applications

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board shall be applied in accordance with ASTM C840 and GA-216. When installing the panels over steel studs, we recommend using 20 gauge (30 mils) steel stud.** The product also can be applied to wood framing with drywall nails or screws and with special adhesives in combination with supplemental fasteners.

Handling Precautions

Product is heavier than typical 5/8” (15.9 mm) board. Caution must be used when loading and moving board. Store ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board off the ground and under cover. Stack the product flat on a level surface. Use risers to ensure support for the entire length of the board to prevent sagging. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. (Appropriate handling is outlined in Gypsum Association publications GA 216 and GA-801.) Avoid impact, undue flexing and subsequent damage to panel edges, ends and corners.

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.

Safety Data Sheet

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

Decoration

ToughRock Fireguard X Mold-Guard MAX-Abuse Gypsum Board should be finished in the same manner as other gypsum board. For detailed finishing instructions, consult the Gypsum Association Publication GA 216, “Recommended Procedure for the Application and Finishing of Gypsum Panel Products,” and ASTM C840, “Standard Specification for Application and Finishing of Gypsum Board.”

* Level 3 is achieved with one coat of primer and two coats of paint.

** For equivalent and effective gauge steel studs, we have no evaluation or installation recommendations.

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Submittal Approvals

Job Name _____

Contractor _____

Date _____

ToughRock® Fireguard X® Mold-Guard™ MAX-Abuse Gypsum Board is 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, a skim coat of trowel-applied joint compound should be applied over the entire surface to reduce highlighting or joint photographing. This method is also recommended in areas with severe natural or artificial side lighting. Joint treatment must be thoroughly dry before proceeding with primer application and final decoration.

Georgia-Pacific Gypsum recommends application of a sealer under wallpaper or other wall covering so that the surface will not be damaged if the covering is subsequently removed during redecorating. For further details, see Gypsum Association GA-214, "Recommended Specification for Levels of Gypsum Board Finish."

Technical Data—Surface Burning Characteristics

Flame spread rating of 0 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 Mold-Guard MAX-Abuse Gypsum Board is UL and ULC classified, Type X.

Physical Properties

Properties	ToughRock® Fireguard X® Mold-Guard™ MAX-Abuse Gypsum Board
Thickness, nominal inches	5/8" (15.9 mm), ± 1/64" (0.4 mm)
Width, nominal	4' (1220 mm), ± 3/32" (2.4 mm)
Length, standard	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)
Weight ¹ , lbs./sq. ft., nominal (kg/m ²)	2.9 (14.2)
Edges	Tapered edge
Flexural Strength ³ spacing, min. Parallel, lbf. (N) Perpendicular, lbf. (N)	≥46 (205) ≥147 (654)
R Value ² , °F•ft ² •hr/BTU (m ² •K/W)	0.56 est. (0.10)
Nail Pull Resistance ³ , minimum, lbf. (N)	≥87 (387)
Hardness ³ , lbf. (N) (core, edges and ends)	≥15 (67)
Humidified Deflection ³	5/8" (16 mm)
Surface Burning Characteristics ⁴ (per ASTM E84) Flame Spread Smoke Developed	0 0

(The core is noncombustible when tested in accordance with ASTM E136.)

¹ Represents approximate weight for design and shipping purposes. Actual weight may vary depending on manufacturing location and other factors.
² Per Gypsum Association document GA-235.

³ Specified minimum values are as defined in ASTM C1396.
⁴ Products qualify for NFPA Class A or IBC Class 1.

ToughRock® Fireguard X® Mold-Guard™ MAX-Abuse Gypsum Board Test Results

Test	General Description of Test	Test Result Metrics	Product Test Results
Surface Abrasion Surface Damage ASTM C1629	A wire brush is cycled across the board surface. Failure is recorded as the depth of abrasion after 50 cycles. The lower the number, the better the abrasion resistance.	Surface Abrasion 1. 0.0126" (3.2 mm) 2. 0.059" (1.5 mm) 3. 0.010" (0.3 mm)	Level 3*
Surface Indentation Surface Damage ASTM C1629	A 8 lb. (3.6 kg) weight is raised 9 inches, (229 mm) then dropped onto a small 5/8" (15.9 mm) round die which hits the sample. The value reported is the average of 3 or more tests.	Indentation Resistance 1. 0.150" (3.8 mm) 2. 0.100" (2.5 mm) 3. 0.050" (1.3 mm)	Level 1
Soft-Body Impact Penetration ASTM C1629	A leather bag filled with 60 lbs. (27 kg) of shot is released against the surface of the board at increasing height until failure.	Soft-Body 1. 90 ft. lbs. (122 J) 2. 195 ft. lbs. (265 J) 3. 300 ft. lbs. (405 J)	Level 2
Hard-Body Impact Penetration ASTM C1629	Board is impacted with a steel cylinder on a pendulum. The maximum amount of impact force the panel can withstand without breaching the wall cavity is measured.	Hard-Body 1. 50 ft. lbs. (68 J) 2. 100 ft. lbs. (136 J) 3. 150 ft. lbs. (04 J)	Level 1



U.S.A. GP Gypsum 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 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.