

**SUBSTITUTION
REQUEST**
(After the Bidding/Negotiating Stage)

Project: _____ Substitution Request Number: _____

From: _____
To: _____ Date: _____

A/E Project Number: _____
Re: _____ Contract For: _____

Specification Title: _____ Description: _____
Section: _____ Page: _____ Article/Paragraph: _____

Proposed Substitution: **Gypsum Drywall**
Manufacturer: **Georgia-Pacific Gypsum LLC** Address: **133 Peachtree St, Atlanta, GA 30303** Phone: **800-225-6119**
Trade Name: **ToughRock® Mold-Guard™ Gypsum Board** Model No.: _____
Installer: _____ Address: _____ Phone: _____

History: New Product • 1-4 years old • 5-10 years old • More than 10 years old

Differences between proposed substitution and specified product: _____

• Point-by-point comparative data attached

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____
Address: _____ Owner: _____
_____ Date Installed: _____

Proposed substitution affects other parts of Work: • No • Yes; explain _____

Savings to Owner for accepting substitution: _____ (\$ _____)

Proposed substitution changes Contract Time: • No • Yes [Add] [Deduct] _____ days.

Supporting Data Attached: • Drawings • Product Data • Samples • Tests • Reports _____

**SUBSTITUTION
REQUEST
(After the Bidding/Negotiating Stage - Continued)**

The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
 - Similar warranty will be furnished for proposed substitution as for specified product.
 - Same maintenance service and source of replacement parts, as applicable, is available.
 - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
 - Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
 - Proposed substitution does not affect dimensions and functional clearances.
 - Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
 - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
-

Submitted by: _____

Signed by: _____

Firm: _____

Address: _____

Telephone: _____

Attachments: _____

A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: _____ Date: _____

Additional Comments: • Contractor • Subcontractor • Supplier • Manufacturer • A/E • _____



Manufacturer

Georgia-Pacific Gypsum LLC
133 Peachtree Street
Atlanta, GA 30303

Georgia-Pacific Canada LP
6711 Mississauga Road,
Mississauga, ON L5N 2W3

Technical Service Hotline: 1-800-225-6119

Description

ToughRock® Mold-Guard™ Gypsum Board is designed for use in interior wall and ceiling applications and offers enhanced protection against mold and moisture exposure that can cause deterioration and/or stains. It contains a non-combustible core (when tested in accordance with ASTM E 136); moisture-resistant treated core; and moisture- and mold-resistant treated, 100% recycled paper facings on the front (green colored), back, and long edges. **Product is available as 1/2" (12.7 mm) and 5/8" (15.9 mm) Type X (as defined in ASTM C 1396).**

Primary Uses

ToughRock Mold-Guard can be used in building applications that require direct mechanical attachment to wood or metal wall and ceiling frames, or attachment to existing surfaces using fasteners or adhesives.

Moisture and Mold Resistance

ToughRock Mold-Guard 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 D 3273 ("Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber"), ToughRock Mold-Guard gypsum board achieved a score of 10, the best possible score for this test.

The use of ToughRock Mold-Guard 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 Mold-Guard 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.

Limitations

1/2" (12.7 mm) ToughRock Mold-Guard and 5/8" (15.9 mm) ToughRock Mold-Guard (Type X) gypsum boards are nonstructural products and should not be used as a nailing base or to support heavy wall-mounted objects. They should not be installed using only staples or adhesives.

Do not use the products 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, steam rooms, gang shower rooms and swimming pools.

Product is not intended for wet areas behind tile such as tub and shower areas. Georgia-Pacific recommends the use of DensShield® Tile Backer behind tile in wet areas. For other areas likely to be exposed to extreme moisture, Georgia-Pacific recommends the use of DensArmor Plus® High-Performance Interior Panels.

If ToughRock Mold-Guard is to be painted or papered, it should be primed with a latex primer prior to receiving decoration. See "Finishing Tips" section for more details.

If product is used in single ply ceiling applications, framing spacing is 16" (406 mm) o.c. maximum parallel, and 24" (610 mm) o.c. maximum for perpendicular applications.

To prevent mold and mildew development, avoid water exposure during handling, storage and installation, and after installation is complete.

Applicable Standards

Manufactured to meet ASTM C 1396 section 7 (replaced ASTM C 630); and CSA-A82.27-M and Federal Specifications SS-L-30D, Type VII Grade W, X.

Building Code Conformity

ToughRock Mold-Guard and ToughRock Mold-Guard (Type X) gypsum board conforms to the requirements of major building codes for its intended use.

Sizes

Type	Regular	Type X
Thickness - nominal	1/2" (12.7 mm)	5/8" (15.9 mm)
Widths - nominal	48" (1219 mm)	48" (1219 mm)
Lengths - standard	8'-12' (2440 mm–3658 mm)	8'-12' (2440 mm–3658 mm)

Edges

Tapered

Supplemental Materials

Fasteners: Nails, screws, staples and/or adhesive.

Finishing: Tape, ready-mix or setting type joint compound, textures, acoustical sealant, tile adhesives.

Trims: Corner bead, edge/casing bead, control joints, floor/ceiling runners and channels.

Technical Data

Flame spread 15 and smoke developed 0 when tested according to ASTM E 84 or CAN/ULC-S102. The core is noncombustible when tested in accordance with ASTM E 136 or CAN/ULC-S114. 5/8" (15.9 mm) ToughRock Mold-Guard (Type X) gypsum board is UL Classified.

Sound Control

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

Installation—Application Standards:

1/2" (12.7 mm) ToughRock Mold-Guard and 5/8" (15.9 mm) ToughRock Mold-Guard (Type X) may be applied according to the Gypsum Association Publication GA-216 or ASTM C 840.

For fire resistance treated construction, application regarding board orientation, fastener type and spacing shall be consistent with the tested construction details. The details are published in the Gypsum Association Fire Resistance Design Manual GA-600, UL Fire Resistance Directories.

Safety

See *Handling and Use—Caution* section at end of this document.

Handling Precaution:

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

Take care to avoid impact, undue flexing and damage to edges, ends and corners.

Material Safety Data Sheet

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

Finishing Tips and Decoration Application

This product will accommodate a variety of decorative treatments after proper surface preparation.

ToughRock Mold-Guard 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 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.

Submittal Approvals

Job Name _____

Contractor _____

Date _____

continued →

Physical Properties

Properties ¹	1/2" (12.7 mm) Toughrock® Mold-Guard™†	5/8" (15.9 mm) Toughrock® Mold-Guard™†
Type	Regular	Type X (per ASTM C 1396)
Thickness, nominal	1/2" (12.7 mm), ± 1/64" (0.4 mm)	5/8" (15.9 mm), ± 1/64" (0.4 mm)
Width, nominal	4' (1220 mm) – 3/32" (2.4 mm)	4' (1220 mm) – 3/32" (2.4 mm)
Length, standard	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)	8' (2440 mm) to 12' (3658 mm) ± 1/4" (6.4 mm)
Weight, lbs./sq. ft., nominal (kg/m ²)	1.75 (8.5)	2.2 (10.7)
Edges	Tapered	Tapered
Surfacing	100% recycled paper coverings on face, back and long edges; green color on face	100% recycled paper coverings on face, back and long edges; green color on face
Flexural strength, minimum ³		
Parallel, lbs.f. (N)	≥ 36 (160)	≥ 46 (204)
Perpendicular, lbs.f. (N)	≥ 107 (475)	≥ 147 (653)
R value ² °F•ft ² •hr/BTU (K•m ² /W)	.45 (0.079)	.56 (0.099)
Nail pull resistance, lbs. minimum ³ (N)	≥ 77 (342)	≥ 87 (387)
Hardness, lbs. force (core, edge and end) (N)	≥ 15 (67)	≥ 15 (67)
Humidified Deflection, inches (mm)	10/8" (33 mm)	5/8" (15.9 mm)
Packaging	Two pieces per bundle, face-to-face and end taped.	Two pieces per bundle, face-to-face and end taped.
Surface Burning Characteristics (per ASTM E 84 or CAN/ULC-S102)	Flame Spread 15 Smoke Developed 0	Flame Spread 15 Smoke Developed 0
Water absorption, % maximum	5.0	5.0

¹ Tested in accordance with ASTM C 473.

Note: Specified minimum values are as in ASTM C 630 and C 1396. Other lengths and types may be available on special order.

For fire safety information, visit www.gp.com/gypsum/firesafety.

² Tested in accordance with ASTM C 518.

³ Tested in accordance with ASTM C 473, Section 9, Method B.

[†] This product may not be able to be used for wet area applications in jurisdictions that adopt the 2006 IBC or IRC.



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

SALES INFORMATION AND ORDER PLACEMENT

U.S.A. Midwest: **1-800-876-4746** West: **1-800-824-7503**
South: **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

TRADEMARKS Unless otherwise noted, all trademarks are owned by or licensed to Georgia-Pacific Gypsum LLC.

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.gp.com/safetyinfo or call 1-800-225-6119.

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.

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.