

ToughRock™ Fireguard® and Fireguard® C Gypsum Board

Manufacturer

G-P Gypsum Corporation

133 Peachtree Street, N.E.

Atlanta, GA 30303

Technical Hotline: 1-800-225-6119 (M-F 8-7 EST)

Description

ToughRock™ Fireguard® and Fireguard® C Gypsum Board have noncombustible, dimensionally stable gypsum cores. The core has been reinforced with the addition of inorganic 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.

Primary Uses

ToughRock Fireguard 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-resistive rating.

A specially formulated gypsum core which includes glass fibers enables ToughRock Fireguard to help protect framing members and preventing or delaying the spread of fire. With joints covered, ToughRock Fireguard will resist passage of smoke.

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

Limitations

ToughRock Fireguard 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 or Fireguard C where it is exposed to temperatures exceeding 125°F for extended periods of time, e.g., located adjacent to wood-burning stoves, electric lighting, heating appliances, and hot air flues.

Applicable Standards

Manufactured to meet:

ASTM C 36, CSA-A82.27-M, ASTM C 1396

Federal SS-L-30D, Type III, Grade X and SS-6-30D

Building Code Conformity

ToughRock Fireguard and Fireguard C Gypsum Board products conform to the requirements of major building codes.

Sizes and Edges

	Thickness nominal	Widths nominal	Lengths standard
Fireguard	5/8"	48"	8'-16'
Fireguard C	5/8"	48"	8'-16'
Fireguard C	1/2"	48"	8'-16'

Edges: Tapered, square, tapered with round edges.

Supplemental Materials

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

Technical Data

Surface Burning Characteristics

Flame spread 15 and smoke developed 0 when tested according to ASTM E 84 or CAN/ULC-S101. The core is noncombustible when tested in accordance with ASTM E 136. It is classified by Underwriters Laboratories.

Fire Resistance Ratings

ToughRock Fireguard and Fireguard C meet the criteria for Type X special fire resistance, as defined in ASTM C 36. ToughRock Fireguard and Fireguard C are classified for fire resistance by Underwriters Laboratories.

Sound Control

ToughRock Fireguard and Fireguard C 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.

Installation

Application Standards

ToughRock Fireguard and Fireguard C Gypsum Board may be applied according to the Gypsum Association Publication GA-216 or ASTM C 840 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/ULC Fire Resistance Directory, and Inchcape Testing Services/Warnock Hersey Listings Book.

Methods

Appropriate methods of installation are based on the desired fire resistance rating or specified STC value required. These ratings and values require that details of all of the tested assemblies be followed. In addition to these details, the installation methods outlined in Gypsum Association Publication GA-216 will facilitate optimum performance through preferred construction practices.

For non-rated construction, installation methods for single- or multi-layer construction involving attachment using mechanical fasteners, adhesive, or adhesive with supplemental fasteners are numerous and varied. Refer to Gypsum Association publications for application and installation details.

The installation method selected shall be planned carefully to minimize the number of end joints. Gypsum board can be cut to the necessary size by scoring the face paper with a sharp knife then snapping away from the cut face. The back paper is then cut or broken by snapping the board in the opposite direction. All cut edges and ends are smoothed by rasping or other suitable methods to form tight-fitting joints when installed.

Apply board tight to framing, abutting edges and ends. Start with ceilings followed by walls. Fasten from center of boards out with slight dimpling of fasteners without breaking face paper. Following proper joint treatment procedures, board surfaces should be primed/sealed prior to decoration.

Safety

During installation involving cutting, scoring, and breaking, safety glasses are recommended. If the work environment is dusty, an approved respirator should be worn. Do not use a power saw.

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 also is 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.

Material Safety Data Sheet

Material Safety Data Sheet (MSDS) is available upon request.

Board Decoration

ToughRock™ Fireguard® and Fireguard® C Gypsum Board are designed to accept most types of paints, texture and wall covering materials. G-P 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.

G-P Gypsum recommends application of a sealer under wallpaper or other wall covering

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.

PHYSICAL PROPERTIES		
PROPERTIES	TOUGHROCK™ FIREGUARD®	TOUGHROCK™ FIREGUARD® C
Thickness, nominal	5/8" (15.9mm), ± 1/64" (0.4mm)	5/8" (15.9mm), ± 1/64" (0.4mm) 1/2" (12.7mm), ± 1/64" (0.4mm)
Width, nominal	4' (1220mm)	4' (1220mm)
Length, Standard	8' (2440mm) to 14' (4270mm)	8' (2440mm) to 14' (4270mm)
Weight ¹ , lbs./M sq. ft., nominal	2300 ¹	1/2" = 2000 ¹ , 5/8" = 2500 ¹
Edges	Tapered, Square or Rounded	Tapered, Square or Rounded
Flexural spacing, min. Parallel, lbs.f. Perpendicular, lbs.f.	50 150	1/2" = 40; 5/8" = 50 1/2" = 110; 5/8" = 150
R Value ²	.56	1/2" = .45, 5/8" = .56
Nail pull resistance lbs. minimum	90	1/2" = 80, 5/8" = 90
Hardness, lbs. force core, edges and ends	≥15	≥15
Humidified Deflection, max.	5/8"	1/2" = 10/8", 5/8" = 5/8"
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 Smoke Developed	15 0	15 0

¹Represents approximate weight for design and shipping purposes.
For more exacting weight for your area, consult your local representative or call the G-P Gypsum Technical Hotline at 800-225-6119.
²Tested in accordance with ASTM C 518.
NOTE: Specified minimum values are as defined in ASTM C 36.

For more information about these and other products, contact:
G-p Gypsum Corporation • 133 Peachtree Street NE • Atlanta, GA 30303

Or visit our Web site at www.gp.com/gypsum.

For technical assistance, call the G-P Gypsum Technical Service Hotline at 1-800-225-6119.

For sales information and order placement, call:

USA Midwest: 1.800.876.4746

CANADA 1.800.387.6823

South: 1.800.327.2344

Quebec: 1.800.361.0486

Northeast: 1.800.947.4497

West: 1.800.824.7503



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