

54" Wide ToughRock™ Regular and Fireguard® 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

54" Wide ToughRock™ Gypsum Board has a noncombustible, dimensionally stable, inert gypsum core. The surfacings on both faces and on the long edges are 100% recycled paper. The front face (side to be finished) and the long edges are an ivory color; the back face paper is gray. The ends are square cut, smooth finished with no paper facing. ToughRock 54" Gypsum Board is specifically designed for 9' ceilings. The use of 54" Gypsum in this application saves labor and time by eliminating the need to use board to fill the gap left from 4' width board.

Primary Uses

54" Wide ToughRock Gypsum Board is a wall or ceiling covering material for use in new building construction or renovation work. It is designed for direct attachment (screws, nails or adhesive) to wood and metal framing or existing surfaces. It may also be used as a covering material for flat or curved structures; the material may be formed to a curve with a short radius.

54" Wide ToughRock Gypsum Board is manufactured with an ivory colored paper surface designed to receive joint treatment, then paint, wall covering, textured coatings or other finish treatment.

Limitations

54" Wide ToughRock Gypsum Board is a nonstructural 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 not used where exposure to moisture is extreme or continuous.

Do not use 54" Wide ToughRock Gypsum Board where there is prolonged exposure to temperatures exceeding 125°F and/or continuous exposure to extreme humidity, e.g. located adjacent to wood burning stoves, heating appliances, swimming pools, saunas or steam rooms.

Consult manufacturer's literature when water-based textures are to be used.

Applicable Standards

ASTM C 36, CSA-A82.27-M; and Federal Specification SS-L-30D, Type III, Grade R.

Building Code Conformity

54" Wide ToughRock Gypsum Board conforms to the requirements of major building codes.

Sizes and Edges

Thickness nominal	Widths nominal	Lengths standard
1/2"	4'6"	8'-16'
5/8"	4'6"	8'-16'

Edges: Square, tapered or tapered with round edges.

Supplemental Materials

Fasteners: Nails, screws or adhesive.

Finishing: Tape, ready mixed or setting type joint compound, textures, acoustical sealant.

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

Technical Data

Surface Burning Characteristics

Flame spread 15 and smoke developed 0, when tested in accordance with ASTM E 84 or CAN/ULC-S102.

Fire Resistance Rating

Fire resistance ratings are determined by tests made on assemblies of specific materials. Caution must be used to ensure that each component of the construction design meets the specified and listed assembly.

Sound Control

Sound rated assemblies require caulking at top, bottom, intersections and other penetrations with acoustical sealant to ensure the effectiveness of the assembly and obtain desired STC rating.

Installation

Application Standards

54" Wide ToughRock Gypsum Board shall be installed according to the Gypsum Association Publication GA-216 "Recommended Specifications for the Application and Finishing of Gypsum Board" and ASTM C 840 "Standard Specification for Application and Finishing of Gypsum Board" for non-fire rated construction.

However, to achieve a designated fire resistance rating, installation and details must be consistent with tested assemblies as listed in the Gypsum Association Fire Resistance Design Manual GA-600, UL/ULC Fire Resistance Directory and Inchcape Testing Services/Warnock Hersey Listing Book.

Methods

For non-rated construction, installation methods for single or multi-layer construction involving attachments 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 should be planned carefully to minimize the number of end joints. 54" Wide ToughRock 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.

TABLE I
MAXIMUM FRAMING SPACING (WOOD OR METAL)

	SINGLE-PLY THICKNESS	APPLICATION	MAXIMUM FRAMING MEMBERS O.C. SPACING
*Ceilings	1/2" or 5/8"	Parallel to Framing	16" o.c.
	1/2" or 5/8"	Right Angles to Framing	24" o.c.
Walls	1/2" or 5/8"	Right Angles or Parallel	24" o.c.

*When using a water-based texture on ceilings, gypsum board shall be installed at right angles to framing. 54" Wide Fireguard® Gypsum Board (5/8") is recommended for stud spacing 24" o.c. 54" Wide Regular Gypsum Board (1/2") may be used for spacing 16" o.c.

For rated assemblies, 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 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.

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 54" Wide ToughRock™ Gypsum Board 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 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.

TABLE II
SINGLE-PLY APPLICATION¹

NAILS: ASTM C 514, Nails for the Application of Gypsum Board

SCREWS: ASTM C 1002, Specification for Steel Drill Screws for the Application of Gypsum Board or Metal Plaster Bases

Wallboard Thickness	NAIL APPLICATIONS		SCREW APPLICATIONS	
	Nail Length	Spacing Walls Ceilings	Screw Length	Spacing Walls ² Ceilings
1/2"	1 3/8"	8" 7"	1"	16" 12"
5/8"	1 1/2"	8" 7"	1 1/4"	16" 12"

¹ Also refer to local code requirements.

² Where framing members are spaced 24" o.c., screw spacing of 12" o.c.

TABLE III
PHYSICAL PROPERTIES

PROPERTIES ¹	1/2" 54" WIDE TOUGHRock™ GYPSUM BOARD	5/8" 54" WIDE TOUGHRock™ FIREGUARD® GYPSUM BOARD
Thickness, nominal	1/2" (12.7mm), ± 1/64" (0.4mm)	5/8" (15.9mm), ± 1/64" (0.4mm)
Width, nominal	54" (1370mm)	54" (1370mm)
Length, Standard	8' (2400mm) to 12' (3660mm) ± 1/4" (6mm)	8' (2400mm) to 12' (3660mm) ± 1/4" (6mm)
Weight, lbs./M sq. ft. nominal	1725	2400
Core	Regular	Type X
Edges	Tapered, square and tapered with round edges	Tapered, square and tapered with round edges
Surfacing	100% recycled paper face, back and long edges	100% recycled paper face, back and long edges
Flexural Strength spacing, min.		
Parallel, lbs.	40	50
Perpendicular	110	150
R Value ²	.45	.56
Nail Pull Resistance		
Minimum, lbs. force	80	90
Hardness, lbs. force		
core, edges and ends	≥15	≥15
Humidified Deflection, inches (max)	1 9/16"	5/8"

Special lengths and types may be available on special order. For ordering and sales information, call 1-800-947-4497.

¹ Tested in accordance with ASTM C 473.

² Tested in accordance with ASTM C 518, Heat Flow Meter

Note: Specified minimum or maximum values are as 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
South: 1.800.327.2344
Northeast: 1.800.947.4497
West: 1.800.824.7503

CANADA 1.800.387.6823
Quebec: 1.800.361.0486



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