

## Build More Fire Resistance Into Your Walls



**Without changing the cost or your construction process.**

**ToughRock® Fireguard 45® Gypsum Board** from Georgia-Pacific is a 1/2" interior wallboard manufactured with enhanced fire-resistant properties compared to 1/2" standard drywall or 1/2" lightweight drywall products.

**It's needed because** 80% of homeowners are concerned about a fire in their home causing personal injury or property damage<sup>1</sup>, but few homes are built with fire-rated wall assemblies to help address those worries.

**It works because** 1/2" ToughRock® Fireguard 45® Gypsum Board is the only standard 1/2" gypsum board classified by UL for use in 45-minute fire-rated wall assemblies. When applied to walls framed with 2" x 4" wood studs spaced 16" OC<sup>2</sup>, every interior wall in the home can be a 45-minute fire-rated wall assembly without requiring the added cost of thicker, heavier fire-rated drywall.

1. Source: 2014 GP Survey of Home Buyers 2. Refer to UL Design V316



#### **SIZES:**

**Thickness:** 1/2" (12.7 mm)  
**Width:** 4' (1220 mm), 54" (1372 mm)  
**Length:** 8' (2440 mm) to 16' (4880 mm)

#### **APPLICATION EFFICIENCY/VERSATILITY:**

- ▶ Lighter and less expensive than both 5/8" Type X and 1/2" Type C fire-rated wallboard.
- ▶ Suitable for ANY wall or ceiling using 1/2" standard or lightweight drywall at no additional purchase cost.
- ▶ Usable as a 1/2" gypsum ceiling board to increase sag resistance with frame spacing up to 24" OC.

# TOUGHROCK. FIREGUARD 45™ GYPSUM BOARD

**Physical Properties:** (manufactured to meet ASTM C1396 Sections 5 and 12)

Property	Value
Thickness, nominal inches	1/2" (12.7 mm), ± 1/64" (0.4 mm)
Width, nominal	4' (1220 mm), - 3/32" (2.4 mm); 54" (1372 mm), - 3/32" (2.4 mm)
Length, standard	8' (2440 mm) to 16' (4880 mm) ± 1/4" (6.4 mm)
Weight <sup>1</sup> , lbs./sq. ft. nominal (kg/m <sup>2</sup> )	1.6 (7.8)
Edges	Tapered, square or tapered with round edges
Surfacing	100% recycled paper face, back and long edges
Flexural strength <sup>3</sup> , min.	
Parallel, lbf. (N)	≥36 (160)
Perpendicular, lbf. (N)	≥107 (476)
R Value <sup>2</sup> , °F•ft <sup>2</sup> •hr/BTU (m <sup>2</sup> •K/W)	0.45 (0.08)
Humidified deflection <sup>3</sup>	5/16" (8 mm)
Surface Burning Characteristics <sup>4</sup> (per ASTM E84)	
Flame Spread	15
Smoke Developed	0
(The 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> Per Gypsum Association document GA-235.

<sup>3</sup> Specified minimum values are as defined in ASTM C1396.

<sup>4</sup> Products qualify for NFPA Class A or IBC Class 1.

## Third Party Testing:

**FIRE-RESISTANCE** - Wall assemblies built with 1/2" ToughRock® Fireguard 45® gypsum board outlasted assemblies built with 1/2" lightweight wallboard<sup>5</sup>.

**SOUND-TRANSMISSION** - Wall assemblies built with 1/2" ToughRock® Fireguard 45® gypsum board outperformed assemblies built with 1/2" lightweight wallboard in lowering the transmission of sounds between adjoining spaces<sup>6</sup>.

<sup>5</sup> Source: WFCI Report#14083

<sup>6</sup> Source: RAL™ Sound Transmission Loss test; Assemblies tested with 24" wood/steel stud walls

## Sales Information and Order Placement:

USA	West:	800-824-7503
	Midwest:	800-876-4746
	South Central:	800-231-6060
	Southeast:	800-327-2344
	Northeast:	800-947-4497
Canada	Canada:	800-387-6823
	Quebec:	800-361-0486

**Technical Hotline 800-225-6119**

[www.FIREGUARD45.com](http://www.FIREGUARD45.com)

[www.TOUGHROCK.com](http://www.TOUGHROCK.com)

## Third Party Certification:

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 for low emitting products.



### Distributed by:

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**WARRANTY:** For current warranty information for this product, please go to [www.buildgp.com/warranties](http://www.buildgp.com/warranties)

**UPDATES AND CURRENT INFORMATION:** The information in this document may change without notice. Visit our website at [www.gpgypsum.com](http://www.gpgypsum.com) for updates and current information.

**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. For additional fire safety information, visit [www.buildgp.com/safetyinfo](http://www.buildgp.com/safetyinfo).