



ToughRock™ 5/8" Abuse-Resistant Gypsum Board

Manufacturer

G-P Gypsum Corporation
133 Peachtree Street, N.E.
Atlanta, GA 30303
Technical Hotline: (800) 225-6119 (ET)

Description

ToughRock™ abuse-resistant gypsum board is designed for wall assemblies in high-traffic areas where surface durability and indentation resistance are especially important, such as schools, hospitals, corrections facilities and offices. ToughRock abuse-resistant gypsum board is specially formulated to offer greater resistance to abrasion, rubbing, scraping, gouging and indentation on the surface than competitive high abuse gypsum panel products.

ToughRock abuse-resistant board consists of a fire-resistant, 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 5/8" abuse-resistant gypsum board has a Type X core that achieves fire resistance ratings derived from tests conducted by independent laboratories on specific assemblies.

ToughRock abuse-resistant 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 than other gypsum boards.
- **Low installation cost.** Easy-to-install; goes up quickly and finishes easily when compared to block construction.
- **Fire resistance.** Core meets criteria for Type X as defined in ASTM C-36.
- **Resists cracks.** Walls formed from ToughRock abuse-resistant board are exceptionally resistant to cracking from structural, thermal or hygrometric fluctuations.

Product Specification

ToughRock™ abuse-resistant gypsum board is manufactured to meet the requirements of ASTM C 36 and C 1396; CSA A82.27-M9; Federal Specification SS-L-30D Type III Grade X; and conforms to the requirements of major building codes pertaining to Type X gypsum board.

Limitations:

ToughRock abuse-resistant 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 abuse-resistant 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.

Product Applications

ToughRock™ abuse-resistant gypsum board shall be applied in accordance with ASTM C 840 and GA-216. To apply the product to steel framing, use 20-gauge or Type S-12 screws for heavier gauge steel. The product also can be applied to wood framing with dry-wall nails or screws and with special adhesives in combination with supplemental fasteners.

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

Handling Precautions: Product is heavier than typical 5/8" board. Caution must be used when loading and moving board. Store ToughRock abuse-resistant 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.

Decoration

ToughRock™ abuse-resistant gypsum board should be finished in the same manner as other gypsum board products. For detailed finishing instructions, consult GA 216, *Recommended Procedure for the Application and Finishing of Gypsum Board*, published by the Gypsum Association, and ASTM C 840, *Standard Specification for Application and Finishing of Gypsum Board*.

ToughRock abuse-resistant gypsum board is 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, 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.

G-P 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*.

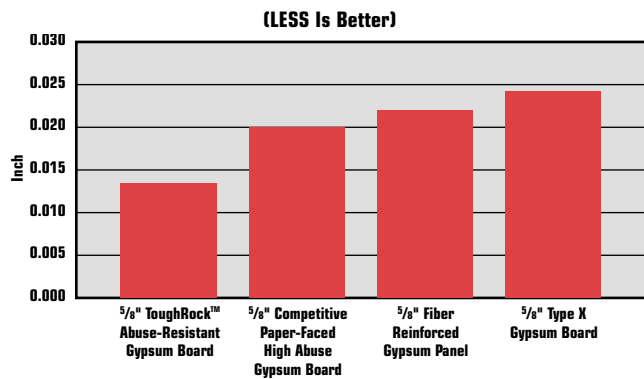
PRODUCT PROPERTIES	
Thickness, nominal	5/8"
Width, nominal	4'
Length	8', 9', 10', 12'
Weight, lbs./ ² M/sq. ft., nominal	2750
Surfacing	Heavy paper

* Represents approximate weight for design and shipping purposes. For more exacting board weight in your area, contact your local representative or call the G-P Gypsum Technical Hotline at 800-225-6119.

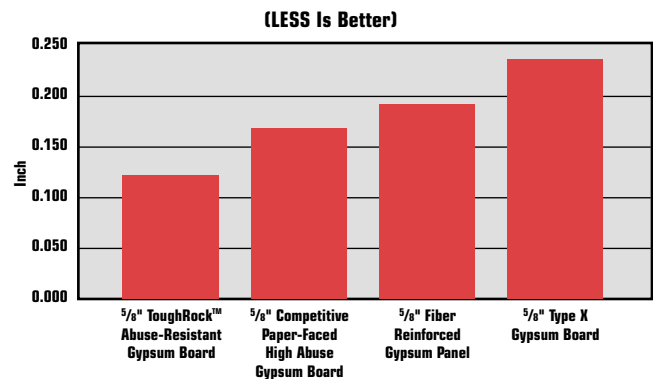
ABUSE RESISTANCE TEST RESULTS					
Board Description	Abrasion Resistance ASTM D 4060 ¹		Surface Indentation ASTM D 5420 ² (inches)	Soft Body Impact Average ASTM E 695 ³ (ft. lbs.)	Overall Performance Index ⁴
	(inches)	(grams)			
ToughRock™ 5/8" Abuse-Resistant Gypsum Board	0.014	.653	0.123	133	80
5/8" Competitive Paper-Faced High Abuse Gypsum Board	0.020	.683	0.162	141	66
5/8" Fiber-Reinforced Gypsum Panel	0.022	1.60	0.195	122	57
5/8" Type X Gypsum Board	0.024		0.230	78	41

NOTE: Values derived from locally obtained stock material; average or minimum values may differ.
¹Abrasion Resistance Test: ASTM D 4060; H-18 abrasion wheel, 500 grams, 200 cycles. **The lower the number, the better.**
²Surface Indentation Test: ASTM D 5420, 72 in.lb. **The less penetration, the better.**
³Soft Body Impact Test: ASTM 695, 50 lb. bag, average of horizontal and vertical applications. **The higher the number, the better.**
⁴Average value using inverse of values less than one.

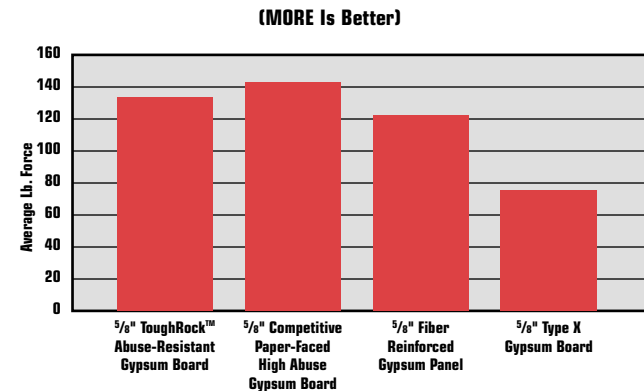
Abrasion Resistance



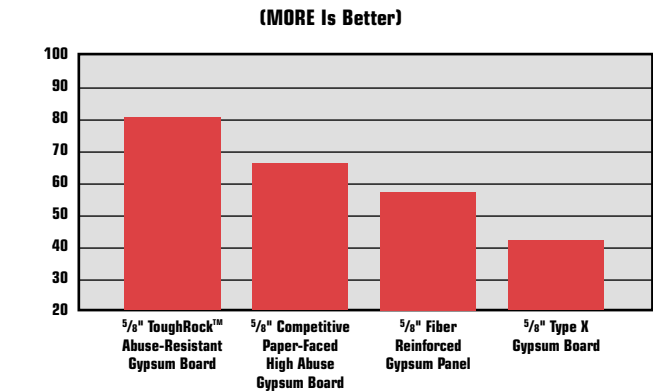
Surface Indentation



Soft Body Impact



Overall Performance Index



When Abrasion Resistance, Surface Indentation and Soft Body Impact test results are all considered, ToughRock Abuse-Resistant gypsum board stands out among competitive products as the best all-round product on the market today.

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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