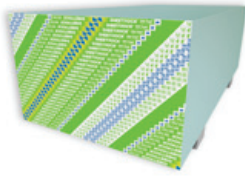


SHEETROCK® Brand Gypsum Panels



Mold Tough® AR Firecode® Core

Low-cost, impact-resistant panels with moisture and mold resistance

- An upgrade to standard drywall
- Indentation resistant
- Meets ASTM C1629 level 2 for soft-body impact, surface abrasion and indentation performance
- Can be used for a tile substrate in any locations or areas with limited water exposure

Description

SHEETROCK® brand MOLD TOUGH® AR FIRECODE® Core gypsum panels were designed and tested to offer greater resistance to surface indentation and impact damage than standard SHEETROCK® gypsum panels. These abuse-resistant gypsum panels are a low-cost alternative to other systems for partitions that require greater impact resistance.

SHEETROCK MOLD TOUGH AR FIRECODE Core gypsum panels have a noncombustible, moisture-resistant core that is encased in moisture- and mold-resistant, 100 percent recycled green face and brown back papers. The face paper is folded around the long edges to reinforce and protect the core, and the ends are square cut and finished smooth. Long edges of panels are tapered, allowing joints to be reinforced and concealed with a USG joint treatment system.

Recommended for commercial and institutional construction where greater resistance to indentation and impact damage are required, providing a low-cost alternative to other construction methods. This panel is classified by UL as to fire resistance and meets the requirement for type X in the model building code.

Note: For projects requiring superior abuse resistance, specify FIBEROCK® brand VHI (very high impact) abuse-resistant interior panels.

Limitations

1. Do not expose to sustained temperatures exceeding 125 °F (52 °C).
2. Do not expose to excessive, repetitive or continuous moisture before, during or after installation. Eliminate sources of moisture immediately.
3. Not suitable for use in high-moisture areas such as tub and shower enclosures, gang showers and other areas subject to direct water exposure.
4. Non-load-bearing.
5. For abuse-resistant construction over steel framing, minimum 20 gauge drywall steel studs (0.0312" design thickness) as defined by the Steel Stud Manufacturers Association (SSMA) are required.
6. Application of SHEETROCK MOLD TOUGH AR FIRECODE Core gypsum panels over insulating blanket, installed continuously across the framing members is not recommended. Blankets should be recessed and blanket flanges attached to sides of studs or joists.
7. Use as a tile substrate is limited to normal 6" x 6" x 5/16" ceramic or plastic tile adhered with mastics only.

Installation

SHEETROCK MOLD TOUGH AR FIRECODE Core gypsum panels are by design stronger and have greater surface hardness than standard 5/8" type X panels. Because of this, they are heavier and will be expectedly more difficult to install. Slower installation production rates should be accounted for in job planning. Installing SHEETROCK MOLD TOUGH AR FIRECODE Core gypsum panels on studs fabricated with steel thinner than true 20 gauge drywall steel studs (0.0312" design thickness) as defined by the SSMA may result in increased fastener strip-out, improper screw head seating, or other related conditions. The equivalent gauge framing is also more sensitive to screw configuration and thread pitch. Due to the wide variety of "equivalent" or "effective" gauge studs and the variation by manufacturer in actual steel thickness, USG has no specific recommendations for installing SHEETROCK MOLD TOUGH AR FIRECODE Core gypsum panels on equivalent gauge steel studs.

Finishing and Decorating

For high-quality finishing results, USG recommends the following products:

- SHEETROCK® brand ready-mixed joint compounds
- SHEETROCK® brand setting-type joint compounds
- SHEETROCK® brand joint tape
- SHEETROCK® brand First Coat primer
- SHEETROCK® brand paper faced metal drywall bead and trim
- SHEETROCK® brand TUFF-HIDE™ primer-surfacer

Painting products and systems should be used that comply with recommendations and requirements in appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with SHEETROCK First Coat primer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting and be decorated with a gloss paint (egg shell, semi-gloss or gloss), the gypsum panel surface should be skim-coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting. As an alternative to skim coating, or when a Level 5 finish is required, use TUFF-HIDE primer-surfacer.



Product Data

Size: Panels are 5/8" (15.9 mm) thick x 4' (1218 mm) wide and available in 8'-12' (2438-4267 mm) lengths

Weight: 5/8" – 3.0 lbs/sf

Test Data**Moisture and Mold Resistance**

Per ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.

In independent lab tests conducted on 5/8" SHEETROCK MOLD TOUGH AR FIRECODE Core panels at the time of manufacture per ASTM D3273, "Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber," the panel score was 10.

This ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.

Abuse Resistance	Test Standard	Test Summary	Classification Levels	Test Results
	Abrasion Resistance ASTM C1629	A sample is placed under a wire brush weighted with 25 lb. The brush is then cycled 50 times back and forth across the surface. This creates surface wear that is measured to determine the level of abrasion resistance.	Maximum Depth Level 1 = 0.126" Level 2 = 0.059" Level 3 = 0.010"	Level 2
	Indentation Resistance ASTM C1629	A 2-lb. weight is raised to a 36" height and dropped onto a 5/8" hemispherical die that strikes the sample with 72 in.-lbs. of force. The depth of the indentation is measured to determine the level of indentation resistance.	Maximum Depth Level 1 = 0.150" Level 2 = 0.100" Level 3 = 0.050"	Level 2
	Soft Body Impact Resistance ASTM C1629	A 60-lb. leather bag is suspended on a rope and raised away angularly from a sample installed on 2x4 wood framing 16" oc. The bag is raised (in 6" increments) and released to impact the sample. The impact energy is calculated based upon the bag weight and drop height where structural failure occurs.	(Structural Failure) Minimum ft. -lb. Level 1 = 90 ft. -lb. Level 2 = 195 ft. -lb. Level 3 = 300 ft. -lb.	Level 2
	Hard Body Impact ASTM C1629 Annex A.1	A 2' by 2' sample is mounted vertically to a metal frame and impacted with a 2-3/4" dia, weighted swinging ram (resembling a sledgehammer). Weight is added in 2.5-lb. increments to increase the impact force. Failure energy is determined when penetration through the face into the frame cavity occurs.	Minimum ft. -lbs. Level 1 = 50 ft. -lb. Level 2 = 100 ft. -lb. Level 3 = 150 ft. -lb.	Level 1

Note: USG testing demonstrates that when painted with one coat of primer and two coats of semi-gloss latex paint, the abrasion resistance for paper faced gypsum wallboard panels increases to level 3.

Compliance

Each 5/8" FIRECODE Core panel bears the Underwriters Laboratories, Inc. mark as evidence of UL Classifications for fire resistance, surface-burning characteristics and noncombustibility. They can be used in UL designs where type "AR" panels are listed. Class A, as defined in IBC section 803.1, flame spread is 15, smoke developed is 5, when tested in accordance with ASTM E84. The gypsum core meets code requirements for noncombustible construction. Complies with ASTM C1396.

Submittal Approvals

Job Name		
Contractor		Date

Product Information

See usg.com for the most up-to-date product information.

Trademarks

The following trademarks used herein are owned by United States Gypsum Company or a related company: FIBEROCK, FIRECODE, MOLD TOUGH, SHEETROCK, TUFF-HIDE, USG, USG in stylized letters.

Notice

We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use.

Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Safety First!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.



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