Submittal Sheet
09250

SHEETROCK® Brand Abuse-Resistant Gypsum Panels

High-impact resistant panels provide quality interior wall surfaces at a low cost

- An upgrade to standard drywall.
- Available in 1/2″ and 5/8″ thicknesses.
- Indentation resistant.
- Impact/penetration resistant.
- Resist cracking and warping.

Description

SHEETROCK® Brand Abuse-Resistant Gypsum Panels were designed and tested to offer greater resistance to surface indentation and through penetration than standard SHEETROCK® Brand Gypsum Panels. SHEETROCK Brand Abuse-Resistant Panels are a low-cost alternative to other systems for partitions that require greater impact resistance.

The regular and fire-resistant gypsum core in SHEETROCK Brand Abuse-Resistant Gypsum Panels is encased in heavy natural-finish paper on the face side and strong liner paper on the back side. 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 U.S. Gypsum joint treatment system.

1/2″ SHEETROCK Brand Abuse-Resistant Gypsum Panels—recommended for residential construction as an upgrade to standard drywall.

5/8″ SHEETROCK Brand FIRECODE™ Abuse-Resistant Gypsum Panels—recommended for commercial and institutional construction where greater indentation resistance and through penetration resistance are required. A low-cost alternative to other construction methods.

SHEETROCK Brand Abuse-Resistant IMPERIAL® Brand Gypsum Base—recommended for one-coat plaster installations requiring greater impact resistance.

Advantages

Dry construction. Factory-fabricated gypsum panels eliminate excessive moisture in construction.

Low in-place cost. The easily cut gypsum panels apply quickly, permit painting or other decoration and the installation of metal or wood trim almost immediately.

Fire protection. Panels are UL classified. Provide 1- and 2-hour Fire Ratings when used in accordance with UL designs U420, U442, U445, U451, U465, U466, U467 and U468. The noncombustible gypsum core meets NFPA definition of “Limited Combustible.”

Crack resistance. With joints reinforced by one of U.S. Gypsum’s joint systems, SHEETROCK Brand Abuse-Resistant Gypsum Panels form walls that are exceptionally resistant to cracks caused by structural, thermal and hygrometric changes.

Indentation resistance. With their high strength, reinforced gypsum core, SHEETROCK Brand Abuse-Resistant Gypsum Panels resist surface indentation damage better than standard FIRECODE Core Panels and gypsum fiber boards.

Impact/penetration resistance. With their high strength face and back paper and reinforced gypsum core, a single-layer assembly constructed with SHEETROCK Brand Abuse-Resistant Gypsum Panels resists through penetration from sharp or blunt impacts better than gypsum fiber boards or standard FIRECODE Core Panel assemblies. Refer to United States Gypsum Company Abuse Resistant Systems, Technical Data Sheet P672, for information on USG Abuse Resistance Testing.

Nonwarping. Expansion or contraction under normal atmospheric changes is negligible—panel won’t cause harmful warping or buckling.

Limitations

1. Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum panels are not recommended where they will be in contact with surface exceeding 125 °F (52 °C), e.g., solar heating systems.
2. Application of SHEETROCK Brand Abuse-Resistant Gypsum Panels over an 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.
3. Painting Systems—For satisfactory results, painting products and systems should be used which comply with recommendations and requirements in Appendixes of ASTM C840.

   For painting, decorating, texturing 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. A prime coat of SHEETROCK Brand First Coat or a good quality, interior latex flat wall paint (undiluted) with high solids content should be applied and allowed to dry before decorating.

   To improve fastener concealment, where gypsum panel walls and ceilings will be subjected to strong artificial or natural side lighting and/or decorated with a gloss paint (egg shell, semi-gloss or gloss), the gypsum panel surface should be skim coated with joint compound to equalize suction before painting.

Architectural Specifications

Part 1: General	**1.1 Scope**	Specify to meet requirements.
	1.2 Qualifications	All materials, unless otherwise indicated, shall be manufactured by United States Gypsum Company, and shall be installed in accordance with its current printed directions.
	1.3 Delivery and Storage of Materials	All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements. Damaged or deteriorated materials shall be removed from the premises.
	1.4 Environmental Conditions	In cold weather and during gypsum panel joint finishing, temperatures within the building shall be maintained within the range of 55-70 °F (13-21 °C). Adequate ventilation shall be provided to carry off excess moisture.
	1.5 Painting Systems	For satisfactory results, painting products and systems should be used which comply with recommendations and requirements in Appendixes of ASTM C840. Also see recommendations in SA927, Gypsum Panels & Accessories.
Part 2: Products	**2.1 Materials**	1/2″ and 5/8″ thicknesses. Available in lengths of 8′-12′—edges are tapered.
Part 3: Execution	**3.1 Gypsum Panel Application**	**A.** SHEETROCK Brand Abuse-Resistant Gypsum Panels are easily cut and scored from the back side of the panel. **B.** Position ends and edges of all gypsum panels over framing members, except when joints are at right angles to framing members as in perpendicular application. **C.** Apply SHEETROCK Brand Gypsum Panels first to the ceiling; then apply SHEETROCK Brand Abuse-Resistant Gypsum Panels to walls. Extend ceiling panel into corners and make firm contact with top plate. Cut panels neatly and provide support at cutouts and openings. To minimize end joints, use panels of maximum practical lengths. Fit ends and edges closely, but don't force together. Stagger end joints in successive courses with joints on opposite sides of a partition; place on different studs. **D.** Attach panels for frame members by (Standard Single-Nailing Method) (Adhesive Nail-On Method) (Double-Nailing Method) (Power-Driven Screws). Space fasteners not less than 3/8″ from edges and ends of panels and drive as recommended for specified fastening method. Drive fasteners in field of panels first, working toward ends and edges. Hold panel in firm contact with framing while driving fasteners. Drive fastener heads slightly below surface of gypsum panels in a uniform dimple without breaking the face paper. **E.** Install trim at all internal and external angles formed by the intersection of gypsum panels to other surfaces. Apply corner bead to all vertical or horizontal external corners in accordance with manufacturer's directions. Treat joints and fastener heads per manufacturer's directions.

Product Data

Panel	Panel Weight Lbs./MSF	Sledge-Hammer Ft. Lbs.	Chisel Ft. Lbs.	Indentation In.	Abrasion Cycles
5/8″ SHEETROCK Brand FIRECODE	2175	23.5	11	.237	10
1/2″ SHEETROCK Brand Abuse Resistant	2150	38.5	11.75	.161	10
5/8″ FIRECODE SHEETROCK Brand Abuse Resistant	2450	42.0	11.75	.161	10

Refer to *United States Gypsum Company Abuse-Resistant Systems*, Technical Data Sheet P672, for complete information on USG Abuse Resistance Testing.

Submittal Approvals:

Job Name	
Contractor	**Date**

Trademarks
The following trademarks used herein are owned by United States Gypsum or a related company: FIRECODE, IMPERIAL, SHEETROCK.

United States Gypsum Company
125 South Franklin Street
P.O. Box 806278
Chicago, IL 60680-4124
A Subsidiary of USG Corporation

800 USG.4YOU (874-4968)
http://www.usg.com