



**Gold
Bond®**
Gypsum Board

Gold Bond® High Flex® Gypsum Board

Ideal for Curved Walls and Ceilings

High Flex® Gypsum Board panels consist of a fire-resistant gypsum core encased in heavy natural-finish paper on the face side and 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 slightly tapered, allowing joints to be reinforced and concealed with joint tape and compound.

APPLICATIONS

High Flex Gypsum Board is specifically designed for curved walls, vaulted ceilings, archways, and stairs. Use in double layers for both convex and concave surfaces.

ADVANTAGES

- Lightweight, cost-efficient material that readily accepts a wide range of decorative finishes.
- Easily cut for quick installation, permitting painting or other decoration and the installation of metal or wood trim almost immediately.
- The gypsum core will not support combustion.
- Significantly more flexible in the vertical direction (long edges parallel to the framing) than in the horizontal direction (see Minimum Bending Radii table).

LIMITATIONS

- Exposure to extreme temperatures should be avoided. High Flex Gypsum Board is not recommended where it will be exposed to temperatures exceeding 125°F (52°C).
- Avoid installing gypsum board directly over insulation blankets with facer flanges placed continuously across the face of the framing members; recess insulation blankets and attach flanges to the sides of framing.

COMPOSITION

Manufactured panel with a gypsum core encased with paper.

ACCESSORIES

- Fasteners: Drywall screws, nails and joint tape
- Joint compound



INSTALLATION

Installation of High Flex® Gypsum Board shall be consistent with methods described in GA-216, "Application and Finishing of Gypsum Board," ASTM C840, "Standard Specification for Application and Finishing of Gypsum Board." (Except for the application of fasteners – see Recommendations.)

GridMarX®

High Flex Gypsum Board comes standard with GridMarX guide marks printed on the paper surface. These guide marks align with standard building dimensions and help to quickly identify fastener lines for stud and joist framing. Using GridMarX, accurate cuts can be made without having to draw lines. The use of GridMarX also provides quick identification and uniform nail/screw patterns.

GridMarX guide marks run the machine direction of the board at five points in 4" increments. Marks run along the edge in both tapers and at 16", 24" and 32" in the field of the board. The marks cover easily with no bleed-through using standard paint products.

Vertical Application – In a vertical application, GridMarX serves as guide marks to help identify the exact location of framing members behind the gypsum board eliminating the need for field applied vertical lines.

Horizontal Application – In a horizontal application, GridMarX serves as reference marks to help identify the exact location of framing members behind the gypsum board. (If framing member is located 2" to the right of GridMarX at the top edge of the board, it will be located 2" to the right down the face of the board.)

RECOMMENDATIONS

- For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. To improve fastener and joint concealment, a coat of a quality latex primer is recommended to equalize the absorption between surface paper and joint compound.
- Apply gypsum board first to ceiling at right angles to framing members, then to walls. Boards of maximum practical length shall be used so that an absolute minimum number of end joints occur. Board edges shall be brought into contact with each other but should not be forced into place.
- High Flex Gypsum Board is significantly more flexible in the vertical direction (long edges parallel to the framing) than in the horizontal direction (see table).
- Locate gypsum board joints at openings so that no end joint will align with edges of openings unless control joints will be installed at these points. End joints shall be staggered, and joints on opposite sides of a partition shall not occur on the same stud.
- High Flex Gypsum Board is typically installed in double layer construction. To prevent flat spots, framing members shall be spaced closer together than required for typical flat wall and ceiling surfaces (see table).
- High Flex Gypsum Board shall be held in firm contact with the framing member while fasteners are being driven.
- For concave surfaces, a stop should be applied to one end of the curve to restrain one end or edge of the board during installation. Apply pressure to unrestrained end or edge of the gypsum board forcing the field of the gypsum board into firm contact with the framing. Fasten gypsum board by working from the "stopped" end or edge. The gypsum board should be held tightly against the framing while fasteners are being driven.
- For convex surfaces, one end of the gypsum board should be attached to the framing with nails or screws. Progressively push the gypsum board into contact with the framing members, working from the fixed end to the free end. The gypsum board should be held tightly against each framing member while fasteners are being driven.

- Fasteners should be set with the heads slightly below the surface of the gypsum board in a dimple formed by the hammer or power screwdriver. Take care to avoid breaking the face paper of the gypsum board.



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MINIMUM BENDING RADII

Application	Lengthwise		Widthwise	
	Bend Radii	Maximum Stud Spacing	Bend Radii	Maximum Stud Spacing
Inside (Concave) Dry	32"	9" o.c.	20"	9" o.c.
Outside (Convex) Dry	30"	9" o.c.	15"	8" o.c.
Inside (Concave) Wet	20"	9" o.c.	10"	6" o.c.
Outside (Convex) Wet	14"	6" o.c.	7"	5" o.c.

Lengthwise denotes long edges perpendicular to the framing members. Widthwise denotes long edges parallel to the framing members. The values listed above were achieved at 65°F and 45% relative humidity. Lower temperatures and lower humidity will decrease the flexibility.

Wetting the board is only required on extremely tight radii, or when temperature and humidity conditions are lower than 65°F and 45% relative humidity. When wetting the board, apply 10-15 ounces of clean water per side with a paint roller or sprayer. Allow to soak 10-15 minutes before bending.

TECHNICAL DATA

Physical Properties

Width:	4' (1,219 mm)
Thickness:	1/4" (6.4 mm)
Standard length:	8' (2,438 mm)
Special Order Lengths:	9' (2,743 mm), 10' (3,048 mm), 12' (3,658 mm)
Edge:	Slightly Tapered

Surface Burning Characteristics - ASTM E84

Flame Spread Index: 15

Smoke Developed: 0

Product Specifications

ASTM C1396

Meets Federal Specification SS-L-30D Type III (Regular)



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