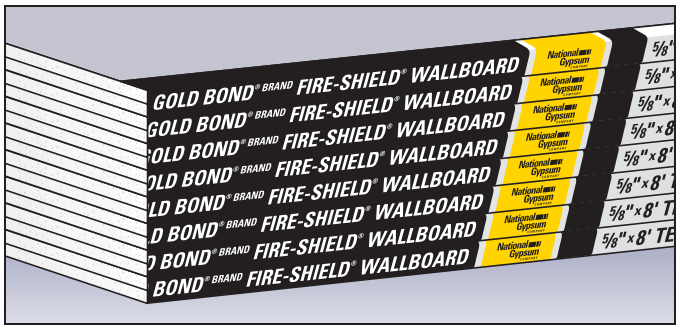
GOLD BOND® BRAND FIRE-SHIELD® WALLBOARD
48" AND 54" WIDE PANELS



GENERAL INFORMATION

Fire-Shield wallboard was developed to work in combination with other products in an assemblies to protect a building from fire for certain intervals of time. Fire-Shield wallboard is manufactured with a core formulated to offer greater fire resistance than regular wallboard. Generically, fire-resistant wallboards that are used to prevent rapid heat transfer to structural members, protecting them for specified times, are designated as "type X" products.

The gypsum core of Fire-Shield wallboard works as a natural "sprinkler system." Gypsum naturally contains about 21% water. When the board is heated, the water in the core begins to evaporate and is released as steam, retarding heat transfer. Fire-Shield wallboard remains noncombustible. However, as shrinkage occurs because of the loss of water volume, cracks that permit passage of heat and fire occur. To lessen this process, Fire-Shield wallboard is formulated by adding noncombustible fibers in the gypsum to help maintain the integrity of the core as water volume is lost while providing greater resistance to heat transfer.

FEATURES/BENEFITS

- 5/8" Fire-Shield board is required for certain types of wall and/or ceiling construction, which include school classrooms or units built for commercial purposes that require a timed fire rating.
- Fire-Shield can be used for ceilings in HUD construction with 24" o.c. truss spacing where ceiling sag is a possibility. In this type application, however, 1/2" High Strength Ceiling Board will provide equal sag-resistant performance at a reduced cost and with less weight.

SPECIFICATIONS

Thickness: 5/8"
ASTM permissible variations: In the nominal thickness of +/- 1/64" (0.4 mm) with local variations of +/- 1/32" (0.8 mm) from the nominal thickness.

Width: 48" and 54" wide
ASTM permissible variation: +0", - 3/32" (2.4 mm)

Lengths: 6'-16' (1/2" increments)
ASTM permissible variation: +/- 1/4" (6.4 mm)

Corners: Square
ASTM permissible variation: +/- 1/8" (3.2 mm) in the full width of the board

Edges: Tapered or beveled tapered (Gold Bond Sta-Smooth edge).

Weight: 5/8" – Approx. 2.4 lbs./sf

Fire-Rated Gypsum Board:
A gypsum core wall panel with additives to enhance fire resistance of the core and surfaced with paper on front, back and long edges and complying with ASTM C 36/C1396 Type X.

ASTM E 84 Surface Burning Characteristics
(Fire Hazard Classification)
Flame Spread: 15
Smoke Developed: 0

GENERAL APPLICATION

Note: If blown-in cellulose insulation is used, take care to follow insulation manufacturer's specifications on addition of water. Excess moisture in this insulation can cause Fire-Shield Wallboard to sag.

CEILINGS

Foam Method: After ceiling trusses are placed on the gypsum board, foam adhesive should be applied as recommended per the manufacturer's instructions.

Note: To minimize foam leakage, the back of each joint may be taped with 3/4" masking tape prior to applying foam.

Staple Method: Staples (16 gauge with 1" crown and 1-1/2" legs) must be spaced 4" o.c. around the perimeter of the board, either parallel or stitched, and 1/4" in from both ends. Screws in the field of the board should be 1-1/4" to 1-1/2" drywall screws with maximum spacing of 12" o.c. Adjust tools properly so screws, nails and staples are driven straight and flush with the board surface, without breaking the face paper of the gypsum board.

Insulation should not exceed 2.2 lbs./sq. ft. (10.7 kg/m²).

For specific applications and shear values, please refer to section titled "Shear Tests."