

# GOLD BOND® BRAND XP® FIRE-SHIELD® GYPSUM BOARD

## MANUFACTURER

National Gypsum Company  
2001 Rexford Road  
Charlotte, NC 28211  
(704) 365-7300

Technical Information:  
1-800-NATIONAL  
(1-800-628-4662)

Fax: 1-800-FAX NGC1  
(1-800-329-6421)

Internet Home Page:  
nationalgypsum.com  
nationalgypsum.com/espanol  
09 29 00/NGC BuyLine: 1100

## DESCRIPTION

Gold Bond® BRAND XP® Fire-Shield® Gypsum Board with Sporgard™\* was developed as an improved moisture resistant board, offering the same advantages of a traditional moisture resistant board with added mold resistance in the core and paper. XP Fire-Shield Gypsum Board panels consist of a specially treated, fire-resistant, Type X gypsum core encased in a heavy mold/mildew/moisture resistant, 100% recycled, PURPLE® paper on the face side and a heavy, mold/mildew/moisture resistant, 100% recycled gray paper on the back side.

XP Fire-Shield Gypsum Board was designed to provide extra protection against mold and mildew compared to standard wallboard products. 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 the panels are tapered.

Tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm BRAND Ready Mix or ProForm BRAND Quick Set Setting Compounds. For optimum mold and mildew performance, ProForm BRAND XP® Ready Mix is recommended for use.

XP Fire-Shield Gypsum Board features a Type X core to provide additional fire resistance ratings when used in tested systems.

Gold Bond BRAND XP Fire-Shield C Gypsum Board panels have a specially formulated Type X core to achieve superior performance when used in specific fire-rated assemblies where the weight and number of wallboard layers are a concern.

## BASIC USES

- 1/2" Fire-Shield C - For single- or multi-layer construction in fire-tested assemblies.
- 5/8" Fire-Shield - For single- or multi-layer drywall construction. The greater thickness provides increased resistance to fire and reduced sound transmission.
- 5/8" Fire-Shield C - For single- or multi-layer drywall construction. The specially formulated Type X core achieves superior performance when used in specific assemblies.

## ADVANTAGES

- Resists the growth of mold per ASTM G 21 with a score of 0, the best possible score.
- Resists the growth of mold per ASTM D 3273 with a score of 10, the best possible score.
- Can be used on ceilings.
- Lightweight, cost-efficient material that readily accepts a wide range of decorative finishes.

- XP Fire-Shield Gypsum Board is moisture resistant and can be used as a tile backerboard in dry areas or areas with limited water exposure such as toilet/sink areas and wall and ceiling areas above tile in tubs and showers.
- The gypsum core will not support combustion or transmit temperatures greatly in excess of 212°F (100°C) until completely calcined, a slow process.
- UL Classified for fire resistance, surface burning characteristics and noncombustibility.
- Scores and snaps easily, no special handling requirements.
- Less than 5% water absorption per ASTM C 473.

## GREENGUARD CERTIFIED

XP Fire-Shield Gypsum Board has achieved GREENGUARD GOLD Certification.



## MOLD AND MILDEW RESISTANCE

XP Fire-Shield Gypsum Board products were designed to provide extra protection against mold and mildew compared

to standard gypsum board products. When tested by an independent laboratory, XP Fire-Shield Gypsum Board products received the highest possible ratings on ASTM G 21 and ASTM D 3273.

No material can be considered "mold proof," nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, XP Fire-Shield Gypsum Board products can provide increased mold resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

## LIMITATIONS

- For interior use only.
- Exposure to excessive or continuous moisture and extreme temperatures should be avoided.
- XP Fire-Shield Gypsum Board is not recommended where it will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_ Date \_\_\_\_\_

Submittal Approvals: (Stamps or Signatures)

- XP Fire-Shield Gypsum Board should not be used as a backer board directly behind tile and wall panels in tub and shower areas.
- Maximum framing spacing for ceiling applications not to exceed 16" o.c. for installation parallel to framing and maximum 24" o.c. for installation perpendicular to framing. On ceilings to receive hand- or spray-applied water-based texture material, XP Fire-Shield Gypsum Board products are to be installed perpendicular to framing.
- XP Fire-Shield Gypsum Board should not be used in areas subject to constant and/or excessive moisture and high humidity such as gang showers, saunas, steam rooms and swimming pool enclosures. PermaBase® BRAND Cement Board is recommended for these areas.
- Installing XP Fire-Shield Gypsum Board panels over an insulating blanket, installed continuously across the face of the framing members, is not recommended. Blankets should be recessed and flanges attached to the sides of the studs or joists.
- XP Fire-Shield Gypsum must be stored off the ground and under cover. Sufficient risers must be used to assure support for the entire length of the gypsum board to prevent sagging.
- XP Fire-Shield Gypsum must be kept dry to minimize the potential for mold growth. Adequate care should be taken while transporting, storing, applying and maintaining gypsum board. For additional information, refer to the Gypsum Association publication, "Guidelines for the Prevention of Mold Growth on Gypsum Board" (GA-238-03), which is available at [www.gypsum.org](http://www.gypsum.org) under the "Download Free Gypsum Association Publications" section.

## COMPOSITION & MATERIALS

XP Fire-Shield Gypsum Board is a manufactured panel with a Type X gypsum core encased with paper. Fire-Shield core gypsum board also contains various aggregates such as fiberglass to enhance the

fire-resistive qualities. XP Fire-Shield Gypsum Board contains no asbestos.

## ACCESSORIES

- Fasteners: drywall screws, nails or adhesives
- ProForm Joint Tape
- ProForm Ready Mix or ProForm Quick Set/Quick Set Lite Setting Compound
- Cornerbead, trims, casing beads
- Furring Channels
- E-Z Strip control joints or .093 zinc control joints

## TECHNICAL DATA

### PHYSICAL PROPERTIES

Thickness, nominal	1/2" Type C (12.7 mm)
Thickness, nominal	5/8" Type X (15.9 mm)
Width, nominal	4' (1219 mm)
Length, standard	8' through 12' (2438-3657 mm)
Weight, lbs./sq.ft., nominal	1/2" Type C - 1.95
Weight, lbs./sq.ft., nominal	5/8" Type X - 2.2
Weight, lbs./sq.ft., nominal	5/8" Type C - 2.4
Edges	Square or Tapered
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 15 Smoke Developed: 0
Water Absorption (per ASTM C 473)	<5%
Mold Resistance (per ASTM D 3273)	10
Mold Resistance (per ASTM G 21)	0
Permeability (per ASTM E 96)	37*

\*Not classified a vapor barrier

### APPLICABLE STANDARDS AND REFERENCES

ASTM C 1396
ASTM C 840
ASTM D 3273
ASTM G 21
ASTM G 473
Gypsum Association GA-216
Gypsum Association GA-214
Gypsum Association GA-801
Federal Specification SS-L-30D Type VII (Grade R)
National Gypsum Company, <i>Gypsum Construction Guide</i>

## FIRE RESISTANCE RATINGS

Fire resistance ratings represent the result of tests on assemblies made up of materials authorized by National Gypsum in specific configurations. When selecting construction designs to meet certain fire resistance requirements, caution must be used to ensure that each component of the assembly is the one specified in the test. Further, precaution should be taken that assembly procedures are in accordance with those of the tested assembly. (For copies of specific tests, call 1-800-NATIONAL.)

## UL CORE DESIGNATION

1/2" XP Fire-Shield C: FSMR-C  
5/8" XP Fire-Shield: FSW/FSW-3  
5/8" XP Fire-Shield C: FSMR-C

## INSTALLATION

### RECOMMENDATIONS

Installation of XP Fire-Shield Gypsum should be consistent with methods described in the standards and references noted.

### GridMarX®

XP Fire-Shield Gypsum 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 serve as a **guide mark** 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 serve as a **reference mark** to help identify the location of framing members behind the gypsum board. (If framing member is located 2" to the right of the GridMarX at the top edge of the board, it will be located 2" to the right down the face of the board.)

## DECORATION

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 high quality drywall primer is recommended to equalize the absorption between surface paper and joint compound.

The selection of a paint to give the specified or desired finished characteristics is the responsibility of the architect or contractor.

XP Fire-Shield Gypsum that is to have a wall covering applied to it should be prepared and primed as described for painting.

Gypsum Association GA-214 should be referred to in order to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

**National**  
**Gypsum**