

# Gold Bond® BRAND GYPSUM WALLBOARD

## MANUFACTURER

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

Technical Information:  
1-800-National Gypsum  
(1-800-628-4662)

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

Internet Home Page:  
www.nationalgypsum.com  
09250/NGC Buyline: 1100

## DESCRIPTION

Gold Bond® BRAND Gypsum Wallboard panels consist of a fire-resistant gypsum core encased in heavy natural-finish, 100% recycled paper on the face and back sides. 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 or square. Tapered edges allow joints to be reinforced and concealed with ProForm BRAND Joint Tape and ProForm BRAND Easy Finish or Sta-Smooth BRAND joint treatment compounds.

Gold Bond BRAND Fire-Shield Gypsum Wallboard features a type X core to provide additional fire resistance ratings when used in tested systems.

Gold Bond BRAND Fire-Shield C Gypsum Wallboard 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

1/4". Lightweight, low-cost utility gypsum panel for use as a base layer for improving sound control in double-layer steel and/or wood stud partitions. Also for use over old wall and ceiling surfaces. Also applicable for forming curved surfaces with short radii.

3/8". Lightweight for use in the double-wall systems over wood framing, and for repair and remodeling.

1/2". For single-layer application in residential construction and single or multi-layer construction for fire tested assemblies (Fire-Shield C). Also used as a roofing substrate (Fire-Shield C).

5/8". (Fire-Shield or Fire-Shield C only) For the single or multi-layer drywall construction. The greater thickness provides increased resistance to fire and reduced sound transmission.

### ADVANTAGES

- Lightweight, cost-efficient material that readily accepts a wide range of decorative finishes.
- Gypsum Wallboard is 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 or transmit temperatures greatly in excess of 212°F (100°C) until completely calcined, a slow process.
- Expansion and contraction under normal atmospheric changes is negligible.

### LIMITATIONS

- Exposure to excessive or continuous moisture and extreme temperatures should be avoided. Gypsum Wallboard is not recommended where it will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.

- To prevent objectionable sag in gypsum paneled ceilings, the weight of overlaid unsupported insulation should not exceed the following recommendations:

PSF (Pounds per Sq. Ft.)	Type	Frame Spacing
1.3 (6.3 kg/M²)	1/2" Regular	24" o.c.
2.2 (10.7 kg/M²)	1/2" Regular 1/2" Fire-Shield C	16" o.c.
2.2 (10.7 kg/M²)	5/8" Fire-Shield 5/8" Fire-Shield C	24" o.c.

Panels 3/8" thick must not be overlaid with unsupported insulation. If required, a vapor retarder can be installed in exterior ceilings, and plenum or attic spaces should be properly vented.

- Installing Gypsum Wallboard 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.
- Gypsum Wallboard must be stored off the ground and under cover. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging.

- Gypsum Wallboard should be kept dry. However, if wallboard is wetted by rain or other clean water, it will generally regain its full strength and fire resistive qualities if it is allowed to fully dry with good airflow and ventilation conditions. Drying time should not be accelerated by aiming heat sources directly at the wallboard.

### COMPOSITION & MATERIALS

Gypsum Wallboard is a manufactured panel with a gypsum core encased with paper. Gypsum Wallboard contains no asbestos. Fire-Shield core gypsum wallboard also contains various aggregates such as fiberglass to enhance the fire resistive qualities.

### ACCESSORIES

- Fasteners: drywall screws, nails or adhesives
- Joint tape
- Joint compound
- Cornerbeads
- Trims
- Casing beads
- Furring channels
- E-Z Strip control joints
- .093 zinc control joint

(Continued next page)

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

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

Submittal Approvals: (Stamps or Signatures)

## SIZES AND TYPES

Regular Gypsum Wallboard  
Width: 4' (1219 mm)  
Lengths: 6' through 16'  
(1829 – 4877 mm)  
Thickness: 1/4" (6.4 mm)  
3/8" (9.5 mm)  
1/2" (12.7 mm)

Fire-Shield Wallboard  
(includes "C")  
Width: 4' (1219 mm)  
Lengths: 6' through 16'  
(1829 – 4877 mm)  
Thickness: 1/2" (12.7 mm)  
5/8" (15.9 mm)

54" Wide Regular Gypsum  
Wallboard  
Width: 4'6" (1372 mm)  
Lengths: 12' & 14' (3658 mm &  
4267 mm)  
Thickness: 1/2" (12.7 mm)

54" Wide Fire-Shield Gypsum  
Wallboard  
Width: 4'6" (1372 mm)  
Lengths: 12' (3658 mm)  
Thickness: 5/8" (15.9 mm)

*Edges:*  
Regular Gypsum Wallboard:  
Square or tapered  
Fire-Shield Wallboard: Square or  
tapered

## APPLICABLE STANDARDS

ASTM C 36/C 1396  
Federal specification SS-L-30D  
Type III (Regular)  
Federal specification SS-L-30D  
Type III Grade X (Fire-Shield)

## TECHNICAL DATA

### SURFACE BURNING CHARACTERISTICS

ASTM E 84  
Flame spread: 15  
Smoke developed: 0

### FIRE RESISTANCE RATINGS

Fire resistance ratings represent the results of tests on assemblies made up of specific materials in a specific configuration. When selecting construction designs to meet certain fire resistance requirements, caution must be used to insure 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)

## INSTALLATION

### APPLICABLE STANDARDS AND REFERENCES

ASTM C 840  
Gypsum Association GA-216  
Gypsum Association GA-214  
National Gypsum Co. *Gypsum  
Construction Guide*

### RECOMMENDATIONS

Installation of Gypsum  
Wallboard should be consistent with methods described in the standards and references noted.

### 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 a quality drywall primer is recommended to equalize the porosities 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.

Gypsum Wallboard that is to have a wallcovering applied to it should be prepared and primed as described for painting.

Gypsum Association GA-214, Recommended Specification for Levels of Gypsum Board Finish, 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**  
COMPANY

Excellence Across The Board