

Gold Bond® BRAND

09 29 00/NGC

# High Strength Family Of Products



**National**   
**Gypsum®**

# Design And Build Better

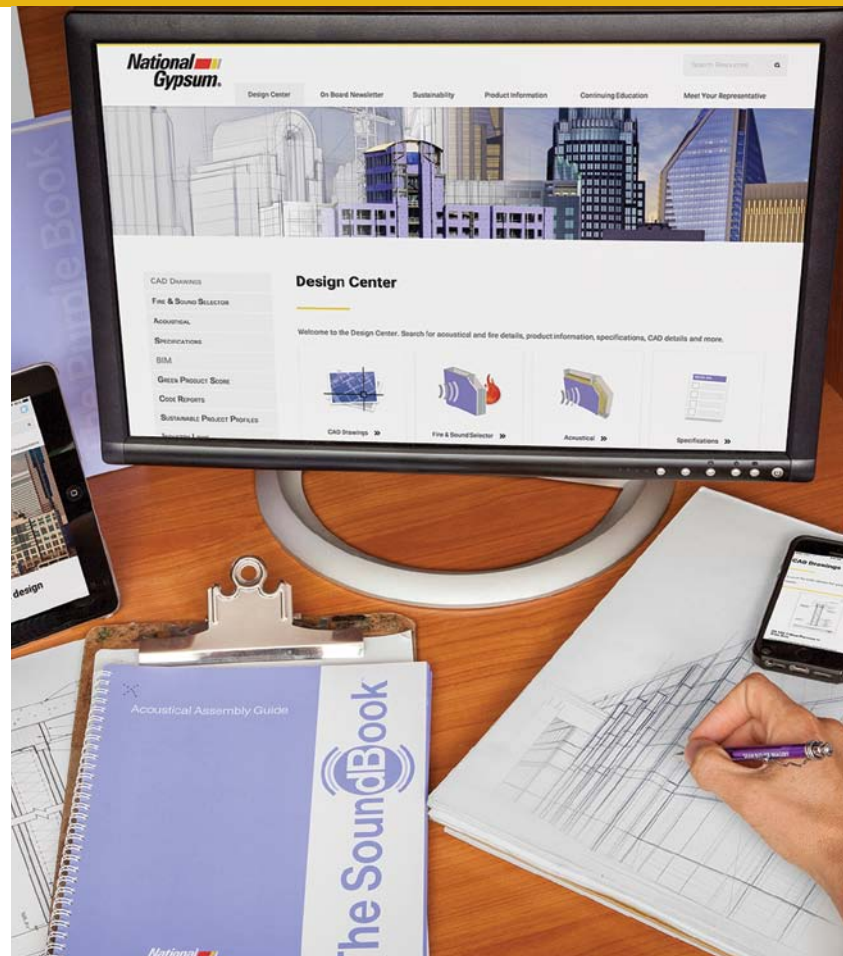


## **With** High-Quality Products And Resources

Founded in 1925, National Gypsum is one of the world's largest producers of quality building products. For nearly a century, customers like you have looked to us for the best products, service and technical support. With a focus on sustainability, we strive to bring you the finest in construction products, education and resources to meet and exceed your expectations.

## **With** Technical Support You Can Count On

Tap into technical support with a call to 1-800-NATIONAL®, place an order through our award-winning customer service center, or find the answers you want on our online Design Center, where the doors are always open. Our multi-pronged approach to technical support and customer service has one central focus: Helping you design and build better.







## Look Closer At The Best High Strength Products

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## ***With* Design That Considers The Environment**

Together, we can attain the highest level of ecological responsibility and resource-efficient technology. National Gypsum is committed to developing and implementing sustainable green building policies, standards and practices. Beyond offering products that can help contribute to healthier environments and have achieved GREENGUARD Certification for indoor air quality, we can help you meet the criteria for green programs and LEED® credits.

# Weights Less, Stays Strong



## Gold Bond® BRAND High Strength Family Of Products

When you need a gypsum board that is lighter in weight yet substantial, you'll appreciate our Gold Bond® BRAND High Strength family of products. Whether your project requires a lightweight board for a fire-rated assembly or a light ceiling board that provides a solid strength-to-weight ratio, you can count on our High Strength products to help you build better. The specialty boards in this line are easier to handle, sag-resistant, and encased in 100-percent recycled paper. Most products have a heavy, natural finish. They all feature GridMarX® guide marks, our preprinted fastening guide that allows for faster and more accurate installation. They have also achieved GREENGUARD Gold Certification for low chemical emissions into indoor air during product usage.

## Select The Right High Strength Products For Your Projects

### Gold Bond® BRAND High Strength LITE® Gypsum Board

- For interior, non-fire-rated walls and ceilings
- 25% lighter than standard gypsum board
- Provides excellent sag resistance

### Gold Bond® BRAND High Strength Fire-Shield 60™ Gypsum Board

- For interior, fire-rated walls and ceilings
- Features a Type X fire-resistive gypsum core
- 20% lighter than standard Type X gypsum board

### Gold Bond® BRAND High Strength Fire-Shield 30™ Gypsum Board

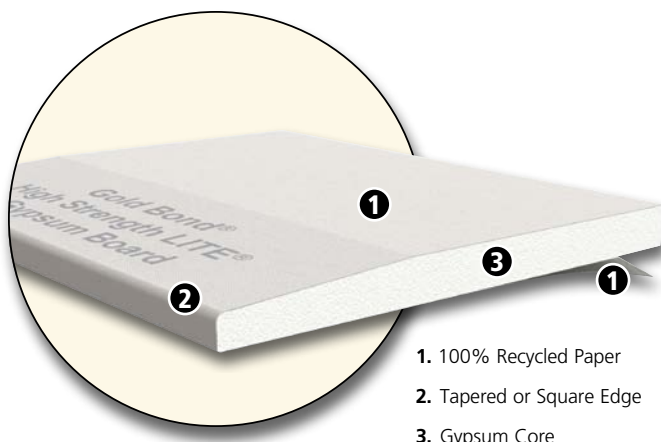
- For interior, 30-minute fire-rated and 1-hour fire-rated wall applications or non-rated ceiling applications
- Features a fire-resistant, non-Type X gypsum core
- 30% lighter than standard Type X gypsum board

# Gold Bond® BRAND High Strength LITE® Gypsum Board

## Lighten Your Load

### Gold Bond® BRAND High Strength LITE® Gypsum Board

Use it for interior, non-fire-rated wall and ceiling applications. Gold Bond® BRAND High Strength LITE® is 25 percent lighter in weight than Gold Bond® BRAND 1/2 in. (12.7 mm) Gypsum Board. This gypsum board provides superior sag resistance.



### Installs Fast And Easy

- 25% less weight is easier to handle.
- Scores and snaps easily.
- Edges are tapered, allowing joints to be reinforced.



### Offers Excellent Working Properties

- Achieves improved strength-to-weight ratio.
- Stays dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.



### Resists Sagging

- Sag resistance is equivalent to 5/8" (15.9 mm) Type X Gypsum Board.



### Provides Fire Resistance

- Features a fire-resistive, non-Type X core.

## PHYSICAL PROPERTIES

<b>Thickness<sup>1</sup>, Nominal</b>	1/2" (12.7 mm)
<b>Width<sup>1</sup>, Nominal</b>	4' (1,219 mm)      54" (1,372 mm)
<b>Length<sup>1,4</sup>, Standard</b>	8' – 14' (2,438 – 4,267 mm)      12' – 14' (3,657 – 4,267 mm)
<b>Weight, Nominal</b>	1.3 – 1.4 lbs. / sq. ft. (6.35 – 6.84 k/m <sup>2</sup> )
<b>Edges<sup>1</sup></b>	Tapered or Square
<b>Flexural Strength<sup>1</sup>, Perpendicular</b>	≥ 107 lbf. (476 N)
<b>Flexural Strength<sup>1</sup>, Parallel</b>	≥ 36 lbf. (160 N)
<b>Humidified Deflection<sup>1</sup></b>	≤ 10/8" (31.8 mm)
<b>Nail Pull Resistance<sup>1</sup></b>	≥ 77 lbf. (343 N)
<b>Hardness<sup>1</sup> – Core, Edges and Ends</b>	≥ 11 lbf. (49 N)
<b>Bending Radius</b>	10' (3,048 mm)
<b>Thermal Resistance<sup>5</sup></b>	R = .45
<b>Product Standard Compliance</b>	ASTM C1396

## Fire-Resistance Characteristics

<b>Core Type</b>	Regular
<b>UL Type Designation</b>	N/A
<b>Combustibility<sup>2</sup></b>	Non-combustible Core
<b>Surface Burning Characteristics<sup>2</sup></b>	Class A
<b>Flame Spread<sup>3</sup></b>	15
<b>Smoke Development<sup>3</sup></b>	0

## Applicable Standards and References

ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products
ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
ASTM C1396 Standard Specification for Gypsum Board
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
Gypsum Association, GA-214, <i>Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels</i>
Gypsum Association GA-216, <i>Application and Finishing of Gypsum Panel Products</i>
Gypsum Association GA-238, <i>Guidelines for Prevention of Mold Growth on Gypsum Board</i>
National Gypsum Company, <i>NGC Construction Guide</i>

1. Specified values per ASTM C1396, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
3. Tested in accordance with ASTM E84.
4. Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
5. Tested in accordance with ASTM C518.

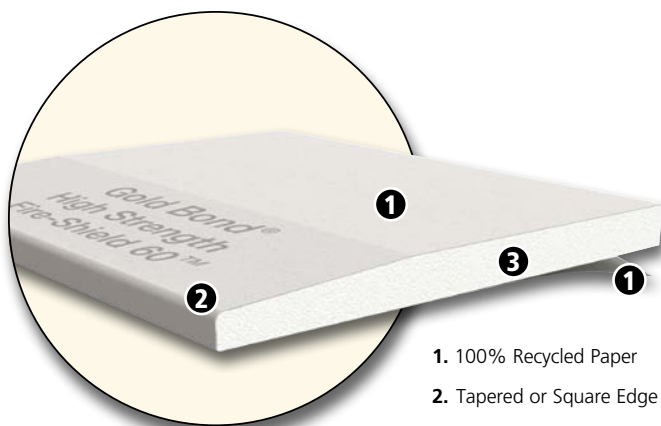


# Gold Bond® BRAND High Strength Fire-Shield 60™ Gypsum Board

## Lightweight And Fire Resistant

### Gold Bond® BRAND High Strength Fire-Shield 60™ Gypsum Board

Use it for interior, fire-rated wall and ceiling applications. Gold Bond® BRAND High Strength Fire-Shield® 60™ features a Type X fire-resistive core for use in laboratory tested, fire-rated assemblies. This gypsum board is 20 percent lighter in weight than standard Type X Gypsum Board.



1. 100% Recycled Paper
2. Tapered or Square Edge
3. Gypsum Core



#### Provides Fire Resistance

- UL Classified and approved component in specific UL-rated designs\*.
- Features a fire-resistive, Type X core.



#### Installs Fast And Easy

- 20% less weight is easier to handle.
- Cuts easily for quick installation.
- Edges are tapered, allowing joints to be reinforced.



#### Offers Excellent Working Properties

- Achieves improved strength-to-weight ratio.
- Stays dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.

\*UL Type FSLX requires the use of fiberglass insulation for single-layer, steel stud UL fire-rated wall assemblies.

#### PHYSICAL PROPERTIES

<b>Thickness<sup>1</sup>, Nominal</b>	5/8" (15.9 mm)
<b>Width<sup>1</sup>, Nominal</b>	4' (1,219 mm), 54" (1,372 mm)
<b>Length<sup>1,4</sup>, Standard</b>	8' – 12' (2,438 mm – 3,658 mm)
<b>Weight, Nominal</b>	1.7 lbs. / sq. ft. (9.28 k/m <sup>2</sup> )
<b>Edges<sup>1</sup></b>	Tapered or Square
<b>Flexural Strength<sup>1</sup>, Perpendicular</b>	≥ 147 lbf. (654 N)
<b>Flexural Strength<sup>1</sup>, Parallel</b>	≥ 46 lbf. (205 N)
<b>Humidified Deflection<sup>1</sup></b>	≤ 5/8" (15.9 mm)
<b>Nail Pull Resistance<sup>1</sup></b>	≥ 87 lbf. (387 N)
<b>Hardness<sup>1</sup> – Core, Edges and Ends</b>	≥ 11 lbf. (49 N)
<b>Bending Radius</b>	15' (4,572 mm)
<b>Thermal Resistance<sup>5</sup></b>	R = .56
<b>Product Standard Compliance</b>	ASTM C1396

#### Fire-Resistance Characteristics

<b>Core Type</b>	Type X
<b>UL Type Designation</b>	FSLX
<b>Combustibility<sup>2</sup></b>	Non-combustible Core
<b>Surface Burning Characteristics<sup>3</sup></b>	Class A
<b>Flame Spread<sup>3</sup></b>	15
<b>Smoke Development<sup>3</sup></b>	0

#### Applicable Standards and References

ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products
ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
ASTM C1396 Standard Specification for Gypsum Board
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
Gypsum Association, GA-214, <i>Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels</i>
Gypsum Association, GA-216, <i>Application and Finishing of Gypsum Panel Products</i>
Gypsum Association, GA-238, <i>Guidelines for Prevention of Mold Growth on Gypsum Board</i>
National Gypsum Company, <i>NGC Construction Guide</i>

1. Specified values per ASTM C1396, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
3. Tested in accordance with ASTM E84.
4. Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
5. Tested in accordance with ASTM C518.

# Gold Bond® BRAND High Strength Fire-Shield 30™ Gypsum Board

## Lightweight With 30-Minute Fire Resistance

### Gold Bond® BRAND High Strength Fire-Shield 30™ Gypsum Board

Use it for interior, 30-minute fire-rated and 1-hour fire-rated wall applications or non-rated ceiling applications.

Gold Bond® BRAND High Strength Fire-Shield 30™ has a fire-resistant, non-Type X gypsum core. This gypsum board is 30 percent lighter in weight than standard 5/8 in. (15.9 mm) Gold Bond® BRAND Fire-Shield® Gypsum Board.



#### Provides Fire Resistance

- UL Classified and approved component in specific UL fire-rated design W411.
- Features a fire-resistive, non-Type X core.



#### Installs Fast And Easy

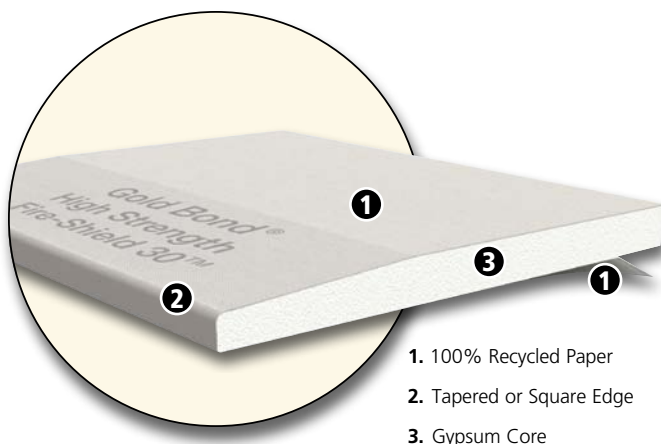
- 30% less weight is easier to handle.
- Scores and snaps easily.
- Edges are tapered, allowing joints to be reinforced.



#### Offers Excellent Working Properties

- Achieves improved strength-to-weight ratio.
- Stays dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.

**NOTE:** This is a non-Type X product and is not a substitute for Type X gypsum board. The High Strength Fire-Shield 30 product is for single- or multi-layer gypsum board construction for 30-minute or 1-hour fire-rated assemblies. The face of the board and the product end tapes are clearly labeled so the installer can identify this product for the appropriate application.



#### PHYSICAL PROPERTIES

<b>Thickness<sup>1</sup>, Nominal</b>	5/8" (15.9 mm)
<b>Width<sup>1</sup>, Nominal</b>	4' (1,219 mm)
<b>Length<sup>1,4</sup>, Standard</b>	8' – 12' (2,438 mm – 3,658 mm)
<b>Weight, Nominal</b>	1.6 – 1.8 lbs. / sq. ft. (7.81 – 8.79 k/m <sup>2</sup> )
<b>Edges<sup>1</sup></b>	Tapered or Square
<b>Flexural Strength<sup>1</sup>, Perpendicular</b>	≥ 147 lbf. (654 N)
<b>Flexural Strength<sup>1</sup>, Parallel</b>	≥ 46 lbf. (205 N)
<b>Humidified Deflection<sup>1</sup></b>	≤ 5/8" (15.9 mm)
<b>Nail Pull Resistance<sup>1</sup></b>	≥ 87 lbf. (387 N)
<b>Hardness<sup>1</sup> – Core, Edges and Ends</b>	≥ 11 lbf. (49 N)
<b>Bending Radius</b>	15' (4,572 mm)
<b>Thermal Resistance<sup>5</sup></b>	R = .56
<b>Product Standard Compliance</b>	ASTM C1396

#### Fire-Resistance Characteristics

<b>Core Type</b>	Non-Type X
<b>UL Type Designation</b>	FSL30
<b>Combustibility<sup>2</sup></b>	Non-combustible Core
<b>Surface Burning Characteristics<sup>3</sup></b>	Class A
<b>Flame Spread<sup>3</sup></b>	15
<b>Smoke Development<sup>3</sup></b>	0

#### Applicable Standards and References

ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products
ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
ASTM C1396 Standard Specification for Gypsum Board
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
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Gypsum Association, GA-216, <i>Application and Finishing of Gypsum Panel Products</i>
Gypsum Association, GA-238 <i>Guidelines for Prevention of Mold Growth on Gypsum Board</i>
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1. Specified values per ASTM C1396, tested in accordance with ASTM C473.

2. Tested in accordance with ASTM E136.

3. Tested in accordance with ASTM E84.

4. Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.

5. Tested in accordance with ASTM C518.

## LIMITED WARRANTY AND REMEDIES

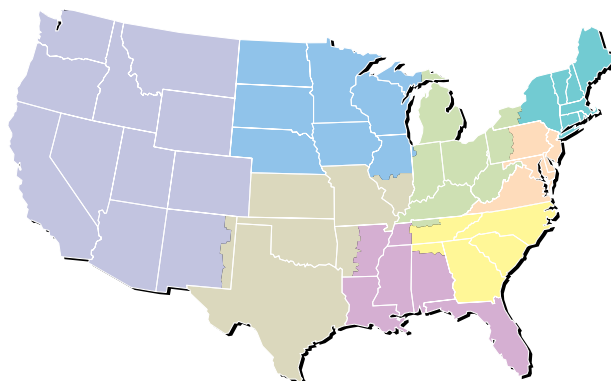
Products manufactured and sold by National Gypsum Company are warranted by National Gypsum Company to its customers to be free from defects in the materials and workmanship at the time of shipment. This express warranty is the only warranty applicable to such products and is in lieu of and excludes all other express oral or written warranties and all implied warranties, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

National Gypsum Company will not be liable for any incidental or consequential losses, damages or expenses. The customer's exclusive remedy for any type of claim or action for defective products will be limited to the replacement of the products (in the form originally shipped) or, at National Gypsum Company's option, to a payment or credit not greater than the original purchase price of the products.

National Gypsum Company will not be liable for products claimed to be defective where the defect resulted from causes not within National Gypsum Company's control, or which arose or occurred after shipment, including but not limited to accidents, misuse, mishandling, improper installation, contamination or adulteration by other materials or goods, or abnormal conditions of temperature, moisture, dirt or corrosive matter.

Any claim that products sold by National Gypsum Company were defective or otherwise did not conform to the contract of sale is waived unless the customer submits it in writing to National Gypsum Company within thirty (30) days from the date the customer discovered or should have discovered the defect or nonconformance. No legal action or proceeding complaining of goods sold by National Gypsum Company may be brought by the customer more than one year after the date the customer discovered or should have discovered the defect or problem of which it complains.

## CUSTOMER SERVICE SALES AREAS



### Atlantic Area

Phone: (800) 237-9167

Fax: (877) 252-0430

### Central Area

Phone: (800) 252-1065

Fax: (866) 232-0440

### Gulf Area

Phone: (800) 343-4893

Fax: (866) 482-8940

### Midwest Area

Phone: (800) 323-1447

Fax: (866) 692-8590

### Northeast Area

Phone: (800) 253-3161

Fax: (866) 632-1480

### Southeast Area

Phone: (800) 548-9394

Fax: (866) 732-1990

### Southwest Area

Phone: (800) 548-9396

Fax: (866) 792-7520

### Western Area

Phone: (800) 824-4227

Fax: (800) 438-6266

### National Accounts

Phone: (800) 440-1230

Fax: (866) 622-3590

### Factory Built Housing

Phone: (800) 455-3185

Fax: (800) 639-1714



PRODUCT  
CERTIFIED FOR  
LOW CHEMICAL  
EMISSIONS:  
UL.COM/GG  
UL 2818

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**National**   
**Gypsum®**