

**Gold Bond® BRAND e<sup>2</sup>XP® Interior Extreme® Gypsum Panel**

**Gold Bond® BRAND e<sup>2</sup>XP® Fire-Shield® Interior Extreme® Gypsum Panel**

**Gold Bond® BRAND e<sup>2</sup>XP® Interior Extreme® IR Gypsum Panel**

**Gold Bond® BRAND e<sup>2</sup>XP® Interior Extreme® AR Gypsum Panel**

## **National Gypsum Company Drop In Specification Language**

*(Specifier Note: The purpose of this guide specification language is to assist the Specifier in correctly specifying interior extended exposure gypsum panel products and their interior installation. The Specifier needs to edit these guide specifications to fit the needs of each specific project. Contact National Gypsum Company to assist in appropriate product selections.)*

*The guide specification language provided is not adequate as a complete stand-alone specification section. It is recommended to include the necessary language in each of the 3-Parts of **Section 09 29 00 Gypsum Board**. Provided article numbering is for navigating this document only. Added language should be incorporated into the appropriate article heading of the Section.*

*Gold Bond BRAND e<sup>2</sup>XP® Interior Extreme® Gypsum Panels are fiberglass faced with an enhanced mold and moisture resistant gypsum core. These panels can be used in all the same locations as standard gypsum board, and are ideally suited for extreme interior applications where the building envelope is not yet completely enclosed and on the interior face of exterior walls. This product is not appropriate for use in wet areas or exterior use. National Gypsum provides a 12 month exposure warranty against deterioration and delamination, when installed as recommended.*

*Use Gold Bond BRAND e<sup>2</sup>XP® Fire-Shield® Interior Extreme® Gypsum Panels for fire-rated applications which require a Type X product.*

*Use Gold Bond BRAND e<sup>2</sup>XP® Interior Extreme® IR Gypsum Panels for applications requiring additional impact resistance.*

*Specifier Notes (italicized red text) are included to provide assistance in selecting appropriate text for inclusion in a specification. [Bold text] indicates a selection is required. Text in the brackets may not be the only options available, but are recommended or common selections.)*

### **PART 1 - GENERAL**

#### **1.1 SUBMITTALS**

*(Specifier Note: GREENGUARD certification is optional, visit [www.greenguard.org](http://www.greenguard.org) for program information. DELETE paragraph and sub-paragraphs below if not project specific.)*

##### **A. GREENGUARD Submittal:**

*(Specifier Note: Products that have achieved GREENGUARD Children and Schools Certification meet stricter emission guidelines than those with GREENGUARD Indoor Air Quality Certification. GREENGUARD Children and Schools Certification also meet CHPS Low-Emitting Materials.)*

1. Product Certificate for GREENGUARD Children & Schools: For products and materials required to comply with requirements for minimum chemical emissions

## 1.2 WARRANTY

- A. Special Warranty: Manufacturer's exposure warranty against deterioration and lamination
  1. Warranty Period: 12 months from panel installation

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

*(Specifier Note: INCLUDE Fire-Resistance Rating statement when paneling is a component of a rated assembly.)*

- A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency
- B. Joint Compound: VOC content less than 2 g/L

### 2.2 SPECIALTY GYPSUM PANEL

- A. Interior Extended Exposure Gypsum Panels: Conform to ASTM C 1658 and applicable sections of ASTM C 1396. Panels shall have enhanced mold and moisture resistant gypsum core and coated fiberglass mat facer on both sides

*(Specifier Note: Maintain brand name when proprietary specification is acceptable. Use generic term when project must be competitively bid. CONFIRM product requirements and characteristics prior to listing products of other manufacturers.)*

1. Basis-of-Design Product: Subject to compliance with requirements, provide National Gypsum Company; **[Gold Bond® BRAND e²XP® Interior Extreme® Gypsum Panel] [Gold Bond® BRAND e²XP® Fire-Shield® Interior Extreme® Gypsum Panel]**

*(Specifier Note: SELECT core option below. When specifying more than one core, designate location for each. SELECT 5/8 inch option when fire-resistant assemblies are specified.)*

2. Core: **[As indicated] [1/2 inch, regular type] [5/8 inch, Type X]**
3. Long Edges: Tapered. Wrapped with coated fiberglass mat
4. Mold Resistance: ASTM D 3273, score of 10
5. Panel Physical Characteristics

*(Specifier Note: 1st options [XX] refer to e²XP® and 2nd options refer to e²XP® Fire-Shield®. When options are not included, both products meet the same criteria.)*

- a. Flexural Strength - Parallel: **[80] [100]** lbs, when tested in accordance with ASTM C473
- b. Humidified Deflection: less than **[1/4] [1/8]** inch when tested in accordance with ASTM C473
- c. Nail pull resistance: **[80] [90]** lbs, when tested in accordance with ASTM C473

- d. Water Absorption: less than 5% when tested in accordance with ASTM C473
- e. Permeance: greater than 10 perms, when tested in accordance with ASTM E96
- f. Combustibility: Noncombustible when tested in accordance with ASTM E136
- g. Flame spreads/Smoke Developed: 0/0 when tested in accordance with ASTM E84

*(Specifier Note: DELETE paragraph below if environmental requirement is not project specific.)*

- h. Environmental Requirements: Provide products that comply with testing and product requirements for low emitting materials

## 2.3 EXTENDED EXPOSURE ABUSE RESISTANT GYPSUM PANELS

### A. Basis of Design: Gold Bond® BRAND e<sup>2</sup>XP® Interior Extreme® AR Gypsum Panel

#### 1. Panel Physical Characteristics

- a. Core: Fire-resistance rated gypsum core, with additives to enhance mold/mildew resistance.
- b. Thickness: 5/8 inch
- c. Facers: Mold and moisture resistance coated fiberglass mat for abrasion resistance.
- d. Long Edges: Tapered. Wrapped with coated fiberglass mat
- e. Mold Resistance: 10 when tested in accordance with ASTM D 3273
- f. Flexural Strength: Parallel greater than 100 lbf.; Perpendicular greater than 140 lbf.; when tested in accordance with ASTM C 473
- g. Humidified Deflection: less than 1/8 inch when tested in accordance with ASTM C 473
- h. Nail pull resistance: 90 lbs, when tested in accordance with ASTM C 473
- i. Water Absorption: less than 5 percent when tested in accordance with ASTM C 473
- j. Permeance: greater than 10 perms, when tested in accordance with ASTM E 96
- k. Combustibility: Noncombustible when tested in accordance with ASTM E 136
- l. Flame Spread/Smoke Developed: 0/0 when tested in accordance with ASTM E 84
- m. Surface Abrasion Resistance: Classification Level 3 in accordance with ASTM C 1629
- n. Indentation Resistance: Classification Level 1 in accordance with ASTM C 1629.
- o. Soft Body Impact Resistance: Classification Level 2 in accordance with ASTM C 1629
- p. Hard Body Impact Resistance: Classification Level 1 in accordance with ASTM C 1629.

*(Specifier Note: DELETE paragraph below if environmental requirement is not project specific.)*

- q. Environmental Requirements: Provide products that comply with testing and product requirements for low emitting materials

### B. Basis of Design: Gold Bond® BRAND e<sup>2</sup>XP® Interior Extreme® IR Gypsum Panel

#### 1. Panel Physical Characteristics

- a. Core: Fire-resistance rated gypsum core, with additives to enhance mold/mildew resistance, and embedded fiberglass mesh for surface indentation resistance and impact resistance.
- b. Thickness: 5/8 inch
- c. Facer: Mold and moisture resistance coated fiberglass mat for abrasion resistance.
- d. Long Edges: Tapered. Wrapped with coated fiberglass mat

- e. Mold Resistance: 10 when tested in accordance with ASTM D 3273
- f. Flexural Strength: Parallel greater than 100 lbf., Perpendicular greater than 140 lbf., when tested in accordance with ASTM C 473
- g. Humidified Deflection: less than 1/8 inch when tested in accordance with ASTM C 473
- h. Nail pull resistance: 90 lbs, when tested in accordance with ASTM C 473
- i. Water Absorption: less than 5 percent when tested in accordance with ASTM C 473
- j. Permeance: greater than 10 perms, when tested in accordance with ASTM E 96
- k. Combustibility: Noncombustible when tested in accordance with ASTM E 136
- l. Flame Spreads/Smoke Developed: 0/0 when tested in accordance with ASTM E 84
- m. Surface Abrasion Resistance: Classification Level 3 in accordance with ASTM C 1629
- n. Indentation Resistance: Classification Level 1 in accordance with ASTM C 1629.
- o. Soft Body Impact Resistance: Classification Level 3 in accordance with ASTM C 1629
- p. Hard Body Impact Resistance: Classification Level 2 in accordance with ASTM C 1629.

*(Specifier Note: DELETE paragraph below if environmental requirement is not project specific.)*

- q. Environmental Requirements: Provide products that comply with testing and product requirements for low emitting materials

## 2.4 JOINT TREATMENT MATERIALS

- A. Joint Tape for Interior Extended Exposure Gypsum Panels: **[Paper] [Fiberglass mesh]**
- B. Joint Compound for Interior Extended Exposure Gypsum Panels
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide National Gypsum Company; ProForm BRAND Interior Finishing Products

## PART 3 - EXECUTION

*(Specifier Note:  $\Theta^2$ XP Interior Extreme Gypsum Panels are ideally suited for extreme interior applications. These applications include installation of interior gypsum panels prior to the completion of the building envelope; installation of gypsum panels on the interior face of exterior walls; installation adjacent to wet areas; and installation in non-conditioned space. National Gypsum provides a 12 month exposure warranty against deterioration and delamination, when installed as recommended. )*

### 3.1 INTERIOR EXTENDED EXPOSURE GYPSUM PANEL INSTALLATION - UNENCLOSED BUILDING ENVELOPE

- A. To allow for installation of gypsum panels prior to fully enclosing the building envelope, install interior extended exposure gypsum panels in lieu of gypsum board in accordance with manufacturer recommendations

### 3.2 INTERIOR EXTENDED EXPOSURE GYPSUM PANEL INSTALLATION - INTERIOR FACE OF EXTERIOR WALL

- A. To assist in moisture control within exterior building walls, install interior extended exposure gypsum panels in lieu of gypsum board on interior face, in accordance with manufacturer recommendations

- 3.3 INTERIOR EXTENDED EXPOSURE GYPSUM PANEL INSTALLATION - ADJACENT TO WET WALLS
- A. To assist in the moisture and mold control on walls adjacent to wet walls or within 8 feet of a plumbing fixture, install interior extended exposure gypsum panels in lieu of gypsum board, as a tile backer or a substrate for other wall finish. **[Apply Level 5 finish in accordance with Gypsum Association GA-214 where panels will be located in critical lighting conditions or will receive a gloss, semi-gloss, or enamel paint finish.]**
- 3.4 INTERIOR EXTENDED EXPOSURE GYPSUM PANEL INSTALLATION - FIRE-RESISTANCE RATED
- A. General: Install in accordance with manufacturer recommendations, ASTM C840 and GA-216

DISCLAIMER:

*National Gypsum Company Guide Specifications have been written as an aid to the professionally qualified specifier and design professional. The use of this information requires the professional judgment and expertise of the qualified specifier and design professional to adapt the information to the specific needs of the building Owner and the project; to coordinate with the design professional's construction document process, and to meet the applicable building codes, regulations and laws. National Gypsum disclaims any warranty, expressed or implied, including the warranty of fitness for a particular purpose of the product for a project.*

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