

Gold Bond® BRAND Hi-Impact® XP® Gypsum Board
Gold Bond® BRAND EXP® Interior Extreme® IR 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 high impact resistant gypsum board products and their 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 language provided is not adequate as a complete stand-alone specification section. Recommended section numbers and titles where this information may be included: **Section 09 21 16 - Gypsum Board Assemblies** or **Section 09 29 00 Gypsum Board**. Language that the specifier may elect to include in each of the 3-Parts has been provided. Article numbering is only for navigating this document and language should be incorporated into the appropriate Article heading in the Section.*

Impact resistant gypsum board products may be used in a single layer application or a multi-layered wall assembly - EDIT the installation requirements accordingly.

Specifier Notes included in (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 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

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Basis of Design: Products of National Gypsum Company

(Specifier Note: Abuse Resistant gypsum board should be specified in applications where there is a need to provide additional surface protection from scuffs, scratches and dents. Impact Resistant gypsum board should be specified for applications where impact damage is a concern. Both comply with the fire resistance requirements for Type X gypsum board.)

2.2 HIGH IMPACT GYPSUM BOARD

(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.)

A. Basis of Design: Products of National Gypsum Company; Gold Bond Hi-Impact® BRAND XP® Gypsum Board

1. Performance Criteria - Wall Assembly STC: **[40] [44] [47] [52]**
2. Panel Physical Characteristics
 - a. Core: Fire-resistance rated gypsum core, with additives to enhance mold/mildew resistance, surface indentation resistance, impact resistance and moisture and mold resistant
 - b. Surface paper: Abrasion resistant, 100 percent recycled content moisture/mold/mildew resistant paper on front, back and long edges
 - c. Embedded fiberglass mesh
 - d. Long Edges: Tapered
 - e. Overall thickness: 5/8 inch
 - f. Panel complies with Type X requirements of ASTM C 1396
 - g. Surface Abrasion Resistance: Classification Level 3 in accordance with ASTM C 1629
 - h. Indentation Resistance: Classification Level 1 in accordance with ASTM C 1629.
 - i. Soft Body Impact Resistance: Classification Level 3 in accordance with ASTM C 1629
 - j. Hard Body Impact Resistance: Classification Level 3 in accordance with ASTM C 1629.

(Specifier Note: National Gypsum Co, Hi-Impact XP Gypsum Board has the following mold/mildew resistance characteristics. VERIFY conformance of this requirement when specification section must provide products of equivalent design or DELETE when characteristic is not critical.)

- k. Mold/Mildew Resistance: 10 when tested in accordance with ASTM D 3273.

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

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

2.3 INTERIOR EXTENDED EXPOSURE HIGH IMPACT GYPSUM PANELS

A. Basis of Design: Gold Bond® BRAND eXP® 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.
- q. Environmental Requirements: Provide products that comply with testing and product requirements for low emitting materials

(Specifier Note: Acoustical sealant and firestopping putty packs may be specified in other Sections, COORDINATE location of information so that it is not duplicated.)

PART 3 - EXECUTION

3.1 HIGH IMPACT GYPSUM BOARD INSTALLATION

- A. Install in accordance with manufacturer recommendations

3.2 INSTALLATION, INTERIOR EXTENDED EXPOSURE GYPSUM PANELS

- A. General: Install in accordance with manufacturer recommendations, ASTM C 840 and GA-216

(Specifier Note: EXP 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.)

- B. Unenclosed Building Envelope:
 - 1. 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
- C. Interior Face of Exterior Wall:
 - 1. 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
- D. Adjacent to Wet Walls:
 - 1. 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.]**

E. Fire-Resistance Rated:

1. Install in accordance with manufacturer recommendations, ASTM C 840 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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