Gold Bond® BRAND eXP® Tile Backer
National Gypsum Company
Drop In Specification Language

(Specifier Note: The purpose of this guide specification language is to assist the specifier in correctly specifying mold and moisture resistant tile backer. 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.

Gold Bond BRAND eXP® Tile Backer is designed for use as a substrate for interior tile and other finishes in both wet and non-wet areas, areas of high humidity and fire-rated assemblies. It is ideally suited for interior walls and ceiling applications. Tile backer is not recommended for use on floors, shower pans or in shower curbs.

The language provided is not adequate as a complete stand-alone specification section. 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.

Mold and moisture resistant gypsum panel 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/PRODUCTS

A. Mold and Mildew Resistant Tile Backer

(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: Gold Bond® BRAND eXP® Tile Backer

2.2 MOLD AND MILDEW RESISTANT TILE BACKER

A. Panel Physical Characteristics
1. Thickness: \([1/2 \text{ inch}] [5/8 \text{ inch, Type X}]\)
   a. Core: Mold and moisture resistant, [[fire-resistance rated,][Fire-Shield Type X,]]
      gypsum core
   b. Surface: Fiberglass Mat; moisture resistant, acrylic coated water barrier on front

2. Long Edges: Square

(Specifier Note: National Gypsum Co, Gold Bond BRAND eXP Tile Backer has the following characteristics. VERIFY conformance of this requirement when specification section must provide products of equivalent design or DELETE when characteristic is not critical.)

3. Physical Properties:
   a. Water Absorption: less than 5% when tested in accordance with ASTM C473
   b. Combustibility: Noncombustible when tested in accordance with ASTM E136
   c. Flame spreads/Smoke Developed: 0/0 when tested in accordance with ASTM E84
   d. Mold/Mildew Resistance: 10 when tested in accordance with ASTM D 3273

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

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

5. Panel complies with requirements of ASTM C 1178.

2.3 FASTENERS

(Specifier Note: EDIT fasteners to correspond with rated and non-rated assemblies. Do not use nails with a Fire-rated assembly, only screws.)

A. Fasteners for ½ inch thick panels:
   1. Wood Framing: [1-1/2 inch minimum galvanized roofing nail] [1-1/4 inch minimum corrosion resistant course thread bugle head].
   2. Metal Framing: 1inch minimum corrosion resistant sharp point or drill point bugle head screw.

B. Fasteners for 5/8 inch thick panels:
   1. Wood Framing: [1-3/4 inch minimum galvanized roofing nail] [1-1/4 inch minimum corrosion resistant course thread bugle head] [As required in specified fire-rated assembly].
   2. Metal Framing: [1-1/4 inch minimum corrosion resistant sharp point or drill point bugle head screw] [As required in specified fire-rated assembly].

2.4 JOINT TREATMENT MATERIALS

A. Joint Tape [2-inch polymer coated alkali-resistant fiberglass mesh tape][PermaBase® BRAND Fiberglass Mesh Tape]

(Specifier Note: Mortar or adhesive is used for tile applications. DELETE mortar and adhesive paragraphs when tile backer is used in non-tile application.)

B. Mortar: [Latex-portland cement mortar complying with ANSI A118.4] [Dry-set portland cement mortar complying with ANSI A118.1]
C. Adhesive: Organic adhesive complying with ANSI A136.1, Type 1

Specifier Note: Joint compound is used for non-tile applications. DELETE paragraph when tile backer is used in tile application.

D. Joint Compound: Setting type joint compound complying with ASTM C 475 [ProForm BRAND Quick Set setting compound]

E. Joint Sealant: Non-hardening flexible joint sealant complying with ASTM C920

PART 3 - EXECUTION

3.1 GENERAL

Specifier Note: Gold Bond® BRAND eXP® Tile Backer has acrylic coated fiberglass facers which provide an integral water barrier, eliminating the need for a separate water barrier. Do not install a vapor retarder directly behind eXP® Tile Backer.

A. General: Install in accordance with manufacturer recommendations, ASTM C840 and GA-216

B. Install with acrylic coated water barrier side facing away from the framing, so that finishes shall be applied to the coated side.

C. Caulk or seal penetrations and abutments to dissimilar materials.

3.2 TILE BACKER INSTALLATION FOR CEILINGS

A. Install panels perpendicular to supports spaced a maximum of 12 inches on center for ½ inch thick panels and 16 inches on center for 5/8 inch thick panels.

B. Space fasteners 8 inches on center along all support members. Drive fasteners flush with the panel surface, do not countersink.

3.3 TILE BACKER INSTALLATION FOR COUNTERTOPS

A. Apply backer over a minimum 23/32 inch exterior grade plywood sub-base using a bed of thin set mortar.

B. Fasten using 1 ¼ inch corrosion resistant roofing nails or coarse thread bugle head screws spaced no more than 8 inches on center in both directions. Drive fasteners flush with the panel surface, do not countersink.

3.4 TILE BACKER INSTALLATION FOR WALLS

A. Install panels horizontal or vertical to supports spaced a maximum of 16 inches on center without blocking or 24 inches on center with blocking at all joints for ½ inch thick panels and 24 inches on center for 5/8” inch thick panels.

B. Space fasteners 8 inches on center along all support members. Drive fasteners flush with the panel surface, do not countersink.
(Specifier Note: Dry non-tile applications are applications that are not exposed directly to moisture and the finish is something other than tile.)

C. Dry Non-Tile Applications

1. Tape joints with fiberglass mesh tape and embed with setting type joint compound.
2. Skim the surface with a setting or ready-mix joint compound.

(Specifier Note: Wet non-tile applications have higher than normal humidity conditions such as swimming pools, process facilities, etc.)

D. Wet Non-Tile Applications

1. Finish walls with a direct applied finish systems, or materials suitable for humid environments.
2. Seal transitions and abutments to dissimilar materials with flexible joint sealant.

(Specifier Note: For applications where tile is to be used as the final finish refer to recommendations of the Tile Council of North America in the TCA Handbook for Ceramic Tile Installation.)

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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