

**PermaBase® BRAND Cement Board**  
**PermaBase Flex® BRAND Cement Board**  
**National Gypsum Company**  
**Drop In Specification Language**

*(Specifier Note: The purpose of this guide specification language is to assist the specifier in correctly specifying cement backer boards 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, 09 30 13 - Ceramic Tiling**. 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 desired section.*

*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 SECTION INCLUDES**

*(Specifier Note: Select appropriate applications)*

- A. Cement Backerboard
  - 1. Backerboard for ceramic tile or other interior/exterior wall or ceiling applications
  - 2. Underlayment for interior/exterior ceramic tile flooring
  - 3. Substrate for interior/exterior ceramic tile countertops

**1.2 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

**PART 2 - PRODUCTS**

**2.1 MANUFACTURER/PRODUCTS**

*(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. Cement Backerboard
  - 1. Basis of Design: National Gypsum Company; PermaBase® BRAND Cement Board

B. Bendable Backerboard

1. Basis of Design: National Gypsum Company; PermaBase Flex® BRAND Cement Board

2.2 CEMENT BOARD

A. Cement Backerboard Panel Physical Characteristics

1. Core: Cementitious, water-durable.
2. Surface: Fiberglass mesh on front and back
3. Long Edges: Tapered
4. Overall Thickness: **[1/2 inch] [5/8 inch]**
5. Panel complies with requirements of ASTM C 1325 and ANSI A118.9
6. Density: 72 lbs. Per cu. ft.
7. Water Absorption: Not greater than 8% when tested for 24 hours in accordance with ASTM C 473

B. Flexible Cement Backerboard Physical Characteristics

1. Core: Cementitious, water-durable
2. Surface: Fiberglass mesh on front and back
3. Long Edges: Tapered
4. Overall Thickness: 1/2 inch
5. Panel complies with requirements of ASTM C 1325 and ANSI A118.9
6. Density: 72 lbs per cu. ft.
7. Water Absorption: Not greater than 8% when tested for 24 hours in accordance with ASTM C 473

C. Underlayment Physical Characteristics

1. Core: Cementitious, water-durable
2. Surface: Fiberglass mesh on front and back
3. Long Edges: Tapered
4. Overall Thickness: 1/4 inch
5. Panel complies with requirements of ASTM C 1325 and ANSI A118.9
6. Density: 72 lbs per cu. ft.
7. Water Absorption: Not greater than 8% when tested for 24 hours in accordance with ASTM C 473

2.3 FASTENERS

A. PermaBase Cement Board Hi-Lo thread screws (No. 8)

1. Wafer head, corrosion-resistant
2. Overall Thickness: **[1-1/4 inch] [1-5/8 inch]**
3. For use with wood framing and complying with ASTM C 1002

B. PermaBase Cement Board drill point screws (No. 8)

1. Wafer head, corrosion-resistant
2. Overall Thickness: **[1-1/4 inch] [1-5/8 inch]**
3. For use with 20 to 14 ga. Steel framing and complying with ASTM C 1002

PART 3 - EXECUTION (*COORDINATE Preparation and Installation requirements with the desired partition, ceiling or floor assembly.*)

3.1 INSTALLATION

- A. Install in accordance w/manufacturer recommendation and ANSI A108.11

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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