

<p style="text-align: center;">DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT Housing - Federal Housing Commissioner</p> <p>TO: DIRECTORS, SINGLE FAMILY HOCs DIRECTORS, MULTIFAMILY HUBs</p>	<p>Series and Series Number: MATERIALS RELEASE NO: 1299c (Supersedes issue dated January 3, 2007)</p>
	<p>ISSUE DATE June 8, 2010</p>
	<p>REVIEW DATE June 8, 2013</p>
<p>SUBJECT: 1. Product PermaBase™</p> <p>2. Name and address of Manufacturer National Gypsum Company 2001 Rexford Road Charlotte, NC 28211</p>	

Data on the nonstandard product described herein have been reviewed by the Department of Housing and Urban Development (HUD) and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement or approval by HUD of the described product, and any statement or representation, however made, indicating such approval or endorsement by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

USE:

Exterior and interior wall backer board on wood or metal studs.

DESCRIPTION:

PermaBase cement board is a cementitious, fiberglass reinforced construction product. The core is made of a mixture of polystyrene beads, sand, and Portland cement. An alkali-resistant fiberglass mesh is bonded to the surface of each side to give flexural strength. The board is not deteriorated by water. It is cured in a moist environment to ensure sufficient strength development. Typical sizes are 1/2" x 48" x 96", 1/2" x 36" x 60" (other sizes available on special order).

PHYSICAL PROPERTIES:

The physical properties of the PermaBase meet the following:

<u>Physical Property</u>	<u>Test Method</u>	<u>Values</u>
Weight (1/2")	ASTM C 947	2.8 – 3.0lb./sq. ft.
Flexural Strength	ASTM C 947	1100 psi
Modulus of Elasticity	ASTM C 947	162,545 psi
Compressive Strength	ASTM C 495	971 psi
Water Absorption	ASTM D 1037	8.6%
Linear Expansion	ASTM D 1037	0.049%
Nail Pull Resistance	ASTM D 1037 (wet)	121 lbs.
	(dry)	160 lbs.

Other performance properties of PermaBase cement board are on file in HUD Headquarters.

INSTALLATION:

PermaBase cement board shall be installed on studs or furring members (16" o.c. max.) of an exterior wall and be covered with acrylic or synthetic, ordinary stucco, brick or stone veneer, epoxy matrix/stone aggregate, or other finish material approved by National Gypsum Company.

PermaBase cement board can be used as a support board for air/vapor barrier when installed outside wall and as a tile backer board around bathroom, entrance and kitchen areas. Installation shall be in accordance with PermaBase Installation Instructions.

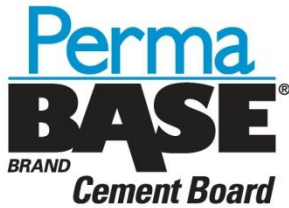
CERTIFICATION AND IDENTIFICATION:

National Gypsum Company shall certify that the PermaBase cement board conforms to the requirements of this Materials Release (MR). Warnock Hersey shall validate the manufacturer's certification that the PermaBase cement board meets the requirements of this MR. The quality control test records shall be made available for inspection by HUD upon request.

Each board certified as conforming to this MR shall be marked with the following information:

- a. PermaBase cement board.
- b. Manufacturer's name or logo.
- c. Registered logo of Warnock Hersey/Intertek Testing Services.
- d. HUD MR 1299c.

SAMPLE STAMPS



1/2"
36" x 5'

Cut This Side

Finish/Tile This Side
Remove Label Before Use

Tools needed:

- Safety Glasses
Gloves
Hammer
Utility Knife
Joint Knife
Trowel

Couper ce côté

Finir/tuiler de ce côté
Enlever l'étiquette avant usage

Outils nécessaires:

- Lunettes de sécurité
Gants
Marteau
Couteau universel
Truelle à joint
Truelle

Corte en esta lado

Aplique el acabado o azulejos en este lado
Quite la etiqueta antes de usar

Herramientas necesarias:

- Anteojos o gafas de seguridad
Guantes
Martillo
Cuchilla de uso general
Cuchilla o navaja para juntas
Liana

Table with 2 columns: INGREDIENTS and CAS NUMBER. Rows include Portland Cement, High Alumina Cement, Silica, and Expanded Polystyrene.

Table with 2 columns: INGRÉDIENTS and NUMÉRO CAS. Rows include Ciment Portland, Ciment Alumineux, Silice, and Polystyrène expansé.

Table with 2 columns: INGRÉDIENTES and N° DE CAS. Rows include Cemento Portland, Cemento con alto contenido de alumina, Silice, and Poliestireno expandido.

US Patent # 6,187,409 (Canadian & other patents pending)
NER-578 ICBO-ER-5731 HUD MR 1299c

WARNING: This product contains encapsulated, nonrespirable crystalline silica (CS). Prolonged and repeated breathing of respirable CS has been determined to be carcinogenic...

MISE EN GARDE: Ce produit contient de la silice cristalline encapsulée (SC), non respirable. Toute inhalation prolongée et répétée de SC respirable est considérée comme cancérigène...

ADVERTENCIA: Este producto contiene silice cristalina encapsulada, no respirable (CS). Se ha determinado que la inhalación repetitiva y por periodos prolongados de silice cristalina, tiene efectos cancerígenos...

UL Classified logo and CEMENTITIOUS BACKER UNITS FIRE RESISTANCE CLASSIFICATION text.



National Gypsum logo

Technical Information: 1-800-NATIONAL
Made in USA Hecho en EE. UU.

Complete installation instructions at: permabase.com

MANUFACTURING LOCATIONS:

The product covered under this MR will be produced at the following plant(s):

<p>BROMONT (SP#15) BRO/S60</p> <p>Unifix, Inc. Mailing 35 Unifix Street Bromont, PQ J2L 1N5</p> <p>Shipping</p> <p>Phone 450-534-0955 Fax 450-534-0953 Plant Manager J. L'Heureux (Jacques) Safety W. Picken (Warren) Quality Supervisor M. Mathieu (Marie-Andree) Office Mgr/Admin/HR M.J. Cabana (Marie-Josee) RQAS Whse/SOS Contact J. Tomazin (Julie) x13</p>	<p>CLINTON (SP#12) CIN01/S59</p> <p>National Gypsum Company Mailing 75 Ivy Lane Clinton, IN 47842</p> <p>Shipping</p> <p>Phone 765-828-0898 Fax 765-832-1657 Plant Manager G. Schmalz (George) x101 HR G. Schmalz (George) x101 Safety (Open) Quality Supervisor Office Mgr/Admin Whse/SOS Contact K. Campbell (Kathy) x102</p>
<p>CLEBURNE (SP#20) CLB/S63</p> <p>National Gypsum Company Mailing 811 Sparks Drive Cleburne, TX 76033</p> <p>Shipping</p> <p>Phone 817-645-3435 Fax 817-641-3103 Plant Manager R. Taylor (Ron) x12 HR & Safety K. Westman (Kirsten) x24 Quality Supervisor K. Westman (Kirsten) x24 Office Mgr/Admin D. Pearson (Dana) x27 RQAS Whse/SOS Contact D. Pearson (Dana) x27</p>	<p>JACKSONVILLE (SP#42) JAX/S61</p> <p>National Gypsum Company Mailing 1767 Wildwood Road Green Cove Springs, FL 32043</p> <p>Shipping</p> <p>Phone 904-284-0221 Fax 904-284-0228 Plant Manager L. Adams (Larry) x12 HR & Safety J. Ziegler (Joy)x10/L. Gates x11 Quality Supervisor J. Hickey (Jim) x18 Office Mgr/Admin L. Gates (Lynda) x11 RQAS Whse/SOS Contact L. Gates (Lynda) x11</p>

WARRANTY:

National Gypsum Company warrants PermaBase cement board against any defects due to faulty materials and workmanship in the manufacturing process for a period of ten (10) years from the date of installation.

The liability of National Gypsum Company on the warranty shall be limited to replacement of any defective members and the cost of installation; or at the option of National Gypsum Company payment in lieu thereof.

The warranty applies to any material failure due to manufacture only and does not cover, nor will the manufacturer be liable for, any defects or damage due to misuse, improper installation or damages resulting from fire, lightning or other unforeseen causes beyond the manufacturer control.

The manufacturer's warranty does not relieve the builder, in any way, of responsibility under the terms of the Builder's Warranty required by the National Housing Act, or under any provisions applicable to any other housing program. A copy of the manufacturer's warranty shall be furnished by the builder to the owner.

The manufacturer's warranty does not, in any way, relieve the builder of responsibility under the terms of the Builder's Warranty required by the National Housing Act or under any provisions applicable to any other housing program. A copy of the manufacturer's warranty shall be furnished by the builder to the owner upon completion of the property.

MANUFACTURER'S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits the manufacturer to fulfill as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.
2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
3. When requested, provide the FHA Standards, Office of Manufactured Housing Programs, HUD Headquarters, with a representative list of properties in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
4. Inform HUD, in advance, of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

EVALUATION:

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to:

U. S. Department of Housing and Urban Development
FHA Standards, Office of Manufactured Housing Programs
451 Seventh Street, SW, Room 9168
Washington, DC 20410-8000

Appropriate User Fee shall be sent to:

U. S. Department of Housing and Urban Development
Miscellaneous Income – Technical Suitability of Products Fees
Bank of America
P. O. Box 198762
Atlanta, GA 30384-8762

The holder of this MR may apply for revision at any time prior to the Review Date. Minor revisions may be in the form of a supplement to this MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will be need to be submitted in accordance with in accordance with Code of Federal Regulations 24 CFR 200.934, “User Fee System for the Technical Suitability of Products Program,” and current User Fee Schedule.

CANCELLATION:

Failure to apply for a renewal or revision shall constitute a basis for cancellation of the MR. HUD will notify the manufacturer that the MR may be canceled when:

1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted material, product, or system;
2. the manufacturer has changed its organizational form without notifying HUD; or,
3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD’s acceptance.

However, before cancellation, HUD will give the manufacturer a written notice, of the specific reasons for cancellation, and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a canceled document.

This Materials Release is issued solely for the captioned firm, and is not transferable to any person or successor entity.
