

<p style="text-align: center;"><b>DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT</b> Housing - Federal Housing Commissioner</p> <p><b>TO: DIRECTORS, SINGLE FAMILY HOCs</b> <b>DIRECTORS, MULTIFAMILY HUBs</b></p>	<p><b>Series and Series Number:</b> <b>MATERIALS RELEASE NO: 1299d</b> (Supersedes issue dated June 8, 2010)</p>
	<p><b>ISSUE DATE</b> September 7, 2017</p>
	<p><b>REVIEW DATE</b> September 7, 2020</p>
<p><b>SUBJECT:</b> 1. <b>Product</b> PermaBase®</p> <p>2. <b>Name and address of Manufacturer</b> 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, Portland cement, and other cementitious materials. 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	2.4 – 2.6 lb/sq. ft.
Flexural Strength	ASTM C 947	750 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)	90 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 on outside walls and as a tile backer board around bathroom, entrance and kitchen areas. Installation shall be in accordance with PermaBase Installation Instructions.

CERTIFICATION AND IDENTIFICATION:


Underwriters Laboratories (UL) monitors the PermaBase products UL File R22158 under their Follow-Up Service program. Products are marked as specified by the requirements of UL LLC, Inc.

National Gypsum Company shall certify that the PermaBase cement board conforms to the requirements of this Materials Release (MR). Underwriters Laboratories, Inc. 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:

- PermaBase cement board.
- Manufacturer's name or logo.
- Registered logo of Underwriters Laboratories, Inc.
- HUD MR 1299d.

**SAMPLE STAMP**



**Perma  
BASE<sup>®</sup>**  
BRAND  
**Cement Board • Pánel de cemento**

1/2"  
48" x 8"

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**Finish/Tile This Side**      **Aplique el acabado o azulejos en este lado**

**Remove Label Before Use**      **Quite la etiqueta antes de usar**

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**⚠ DANGER – Contains Crystalline Silica**  
May cause cancer (inhalation). May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation). Causes skin irritation/irritation.  

- Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust.
- Use personal protective equipment as required.
- Do not cut with a power saw.
- Use engineering controls and wet methods to minimize dust.

Wash exposed skin thoroughly after handling with soap and water. If in eyes, flush with water for 15 minutes. Seek medical attention if eye or skin irritation persists.  
Disposes of in accordance with local, state and federal regulations  
Consult SDS for additional information regarding safe use of this product.  
National Gypsum Company, 2001 Rector Road, Charlotte, NC 28211  
For Emergency Information, call Director Quality Services, (704) 551-5820 - 24 Hour Emergency Response

**⚠ PELIGRO – Contiene Silice Cristalina**  
Puede causar cáncer (inhalación). Puede causar daño a órganos (pulmones) al ser expuestos por inhalación o repetidamente (inhalación). Causa con irritación en la piel.  

- Obtén instrucciones especiales antes de usarlo. No lo uses hasta haber leído y entendido todas las precauciones necesarias.
- No respirar el polvo.
- Utiliza equipo de protección como es requerido.
- No cortar con sierra mecánica.
- Usa controles de ingeniería y métodos húmedos para minimizar polvo.

Lava la piel expuesta luego de uso. Si entra en los ojos, enjuagar con agua por 15 minutos. Si la irritación persiste, buscar atención médica.  
Deséchese de acuerdo con regulaciones locales, estatales y federales.  
Consulta SDS para información adicional acerca del uso de este producto.  
National Gypsum Company, 2001 Rector Road, Charlotte, NC 28211  
Para información en emergencia, llaman al Director de Calidad de Servicio, (704) 551-5820. Disponible las 24 Horas.

US Patent # 6,187,409 (Canadian & other patents pending)  
**Meets ASTM C 1325 and ANSI A118.9**  
**UL Evaluation Report UL ER22150-01 HUD MR 1299d**

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**INGREDIENTS**      **CAS NUMBER**

Portland Cement ..... 65967-15-1  
High Alumina Cement ..... 65997-16-2  
Silica ..... 14808-60-7  
Expanded Polystyrene ..... 9003-53-6

**INGREDIENTES**      **Nº DE CAS**

Cemento Portland ..... 65967-15-1  
Cemento con alto contenido de alúmina ..... 65997-16-2  
Silice ..... 14808-60-7  
Poliestireno expandido ..... 9003-53-6

**CEMENTITIOUS BACKER UNIT**  
**FIRE RESISTANCE CLASSIFICATION**  
SEE UL FIRE RESISTANCE DIRECTORY  
**MINERAL AND FIBER BOARDS SURFACE BURNING CHARACTERISTICS** Flame Spread – 0 / Smoke Developed – 0  
LISTED IN ACCORDANCE WITH CANULC-S101  
FOR USE AS A COMPONENT IN THE FIRE-RATED ASSEMBLIES:  
SEE UL LIST OF EQUIPMENT AND MATERIALS, FIRE RESISTANCE DIRECTORY  
LISTED IN ACCORDANCE WITH CANULC-S102  
**SURFACE BURNING CHARACTERISTICS**  
Flame Spread – 0 / Smoke Developed – 0  
FILE R22150 CONTROL NO. 31LU

**UNIDAD CEMENTOSA DE REFLEJO (CSU) RESISTENTE AL FUEGO.**  
CONSULTE LAS ESPECIFICACIONES DE RESISTENCIA AL FUEGO UL  
**NIVEL DE ASLAMIENTO DE LAS FIBRAS Y COMPONENTES MINERALES** Propagación de llama-0 / Humo-0  
**DE ACUERDO A LA REGULACIÓN CANULC-101 PARA MATERIALES PARA CONSTRUCCIONES QUE REQUIEREN RESISTENCIA AL FUEGO.**  
CONSULTE LA LISTA DE EQUIPOS Y MATERIALES U.L.C. EL DIRECTORIO DE MATERIALES Y EQUIPOS RESISTENTES AL FUEGO DE ACUERDO A LA REGULACIÓN CANULC-102 propagación de llama-0/Humo-0  
ARCHIVO R22150 CONTROL NO.31L

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**National Gypsum**

USA: 1-800-NATIONAL permabase.com  
Made in USA Hecho en EE. UU.



**GREENGUARD**  
GOLD

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL2818



0 22332 02470 7

Head Shield (Wall)  
**CANULC-S632 "Standard for Heat Shields"**  
**Wall Protector - UL1618 "Wall Protectors, Floor Protectors and Heat Extensions"**  
Install in accordance with manufacturer's instructions.  
Warning: Combustible materials should not be installed to the face of heat shield.  
This heat shield allows the required clearance between walls and heating appliances to be reduced by up to 40%.  
UL-MH0421

Protección contra el calor  
**CANULC-S632 "Estándar para Protección contra el calor"**  
**Pánel protector UL1618 "Protectores de Pared, Protectores de Piso y Extensiones para el Hogar"**  
Instalar de acuerdo a las recomendaciones del fabricante.  
Advertencia: No instalar materiales combustibles directamente en frente de la pared protectora.  
Esta pared protectora permite que la distancia entre paredes y electrodomésticos que generan calor se reduzca en un 40%.

PB12486usa20150808

MANUFACTURING LOCATIONS:

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

<b>BROMONT</b>	<b>BRO/1201/135</b>	<b>CLEBURNE</b>	<b>CLB/1085/138</b>
Unifix, Inc.			
Mailing	35 Unifix Street Bromont, PQ J2L 1N5	Mailing	811 Parks Drive Cleburne, TX 76033
Shipping		Shipping	
Phone	450-534-0955	Phone	817-645-3435
Fax	450-534-0953	Fax	817-641-3103
Plant Manager	Jean Francois Brassard	Plant <i>Manager</i>	R. Taylor (Ron) x12
Safety	Jean Francois Brassard	Safety	K. Westman (Kirsten) x24
Quality Supervisor		Quality Supervisor	K. Westman (Kirsten) x24
Office Mgr/Admin/HR	Maryse Lecasse	Office Mgr/Admin/HR	D. Pearson (Dana) x27
RQAS		RQAS	
Whse/SOS Contact		Whse/SOS Contact	D. Pearson Dana x27
<b>CLINTON</b>	<b>CIN/1085/136</b>	<b>JACKSONVILLE</b>	<b>JAX/1085/137</b>
Unifix USA, Inc.			
Mailing	75 Ivy Lane Clinton, IN 47842	Mailing	1767 Wildwood Road Green Cove Spring, FL 32043
Shipping		Shipping	
Phone	765-828-0898	Phone	904-284-0221
Fax	765-832-1657	Fax	904-284-0228
Plant Manager	George Schmalz x101	Plant Manager	Jim Phillips x12
HR & Safety	Doug Short x104	HR & Safety	Elaine Delgado x15
Quality Supervisor	Aaron Ransom x106	Quality Supervisor	J. Hickey (Jim)
Office Mgr/Admin/HR	Barbara Shepard x102	Office Mgr/Admin/HR	L. Gates (Lynda) x24
RQAS		RQAS	
Whse/SOS Contact	K. Campbell (Kathy) x102	Whse/SOS Contact	L. Gates (Lynda) x24

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, 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 at 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 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  
Office of Manufactured Housing Programs  
451 Seventh Street, SW, Room 9170  
Washington, DC 20410-8000

Appropriate User Fee(s) for the TSP program can be submitted through the Pay.gov website at <https://pay.gov/public/form/start/73881741>

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. If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted 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 holder 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 sponsor has changed its organizational form without notifying HUD, or
3. The sponsor has not complied with responsibilities it assumed as a condition of HUD's acceptance.

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

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