TO: DIRECTORS, SINGLE FAMILY HOCs
    DIRECTORS, MULTIFAMILY HUBs

ISSUE DATE
    August 16, 2018

REVIEW DATE
    August 16, 2021

SUBJECT:  1. Product Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring

2. Name and address of Manufacturer
   James Hardie Building Products, Inc.
   10901 Elm Avenue
   Fontana, CA  92337

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: Structural subflooring and nonstructural floor underlayment.

DESCRIPTION:

Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring consist of cellulose fiber reinforced (non-asbestos) cement flat sheet. The structural subflooring is compressed and the floor underlayment are not compressed.

REQUIREMENTS:

Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring shall be in compliance with the American Society for Testing and Materials (ASTM) C1288 (Standard Specification for Discrete Non-Asbestos Fiber-Cement Interior Substrate Sheets), Grade II and Grade I, and ASTM C 1186 (Standard Specification for Flat Non-Asbestos Fiber-Cement Sheets), Grade IV Type A, respectively. Installation shall be in accordance with the manufacturer’s instructions. The structural subflooring shall be in accordance with Table 1.
TABLE 1
ALLOWABLE UNIFORM LOAD (psf) AT A DEFLECTION LIMIT = L/360
FOR HARDIE COMPRESSED SHEET STRUCTURAL SUBFLOORING

<table>
<thead>
<tr>
<th>Sheet Thickness (in.)</th>
<th>Joist Spacing</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16 in. o.c</td>
<td>24 in. o.c.</td>
<td></td>
</tr>
<tr>
<td>1/2</td>
<td>190</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>3/4</td>
<td>300</td>
<td>140</td>
<td></td>
</tr>
</tbody>
</table>

CERTIFICATION AND IDENTIFICATION:

James Hardie Building Products, Inc., shall certify that the Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring are produced in conformance to the requirements of this MR. Intertek Testing Services shall validate the manufacturer’s certification that the Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring meet the requirements of this MR. Each certified James Hardie Building Products, Inc., product named in this MR shall be marked with the following label:
3' x 5' x .42" CEMENT BOARD
with MoldBlock® Technology

HardieBacker® 500

Passes ASTM G21 and D3273 mold tests with best score.
Contains no paper face or gypsum. Moisture and mold resistant.
- FOR WALLS - EXCEPTIONAL DURABILITY

MOLDODEX®

PROTECTION

FOR DETAILED INSTALLATION INSTRUCTIONS ON HARDIEBACKER BOARD, VISIT
www.hardiebacker.com
or call 1-888-J-HARDIE

JamesHardie

Recognized for use as an interior substrate in: ICC-ES Legacy Report
24598, Quality, Safety, and Health Testing Services - IAS AA-690

PRODUCT SAFETY INFORMATION
Ribs: fiberglass product contains respirable crystalline silica, which according to the State of California to cause
cancer and is considered by ACGIH and NIOSH to be a cause of cancer from some occupational sources. Breathing
excessive amounts of respirable silica can cause a disabling and potentially fatal lung disease called silicosis, and
has been linked to other diseases. Some studies suggest smoking may increase these risks. FAILURE TO
ADHERE TO OUR WARNING, MEANS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL
INJURY OR DEATH. Precisely Preparatory Environment: During installation, use fiber-resistant gloves for cutting, use score
& snap technique. During clean-up, use HEPA vacuum or wet clean-up methods - never dry sweep. FIRST AID
MEASURES: Inhalation: Remove yourself to fresh air. Eye Contact: Flush eyes out with running water for at least
20 minutes. Skin Contact: Wash thoroughly with mild soap and water. If skin is irritated, if any of the above
measures are taken and still have irritation seek medical attention. See Material Safety Data Sheet.

INFORMACION DE SEGURIDAD DEL PRODUTO
Procesas sobre riesgos: Este producto contiene sílice cristalina respirable, que según se reconoce en el estado de California,
causa cáncer y se considera por ACGIH y NIOSH como una causa de cáncer de algunas fuentes de ocupación. El
inhalar cantidades excesivas de sílice respirable puede causar una enfermedad de minúscula idea y potencialmente
resulta en silicosis, una enfermedad que se ha asociado con otras enfermedades. Algunos estudios sugieren
que el fumar puede aumentar estos riesgos. LA PALA DE SEGURIDAD PERSONAL ADVERTENCIAS, NÚMEROs DE DATOS
DE SEGURIDAD DE DATOS DE INFORMACIÓN DE INFORMACIÓN DE INFORMACIÓN DE INSTALACIÓN PUEDE LLEVAR A SERIAS LESIONES
PERSONALES O LA MUERTE. Declaraciones de precaución: Durante la instalación use guantes para el
trabajo para cortar o usar la técnica de cortar y romper. Durante la limpieza, use aspiradora HEPA e Instrucciones de
limpieza de limpieza manual — inicio hasta 1 min. MANTENGASE EN MANTENIDA: Inhalación: Vaya al aire libre
Contesto para lavar la mano. Desconecte el agua con agua corriente por al menos 20 minutos. Contacto con la piel. Si
la piel está irritada, lávela bien con agua y jabón suave. Si toca con químicos de las medidas mencionadas y aún
existe la irritación, obtenga atención médica. Ver la hoja de datos de seguridad de materiales.
MANUFACTURING LOCATIONS:

The products covered under this Materials Release (MR) will be produced at the following plants:

<table>
<thead>
<tr>
<th>Plant Name</th>
<th>Address</th>
<th>City, State</th>
<th>Phone</th>
<th>Contact Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>James Hardie Building Products, Inc.</td>
<td>809 Woodrow Wilson Road</td>
<td>Plant City, FL 33566</td>
<td>813-707-5300</td>
<td>Doug Carmack</td>
</tr>
<tr>
<td></td>
<td>3000 Waltham Way</td>
<td>Sparks, NV 89434</td>
<td>775-355-3001</td>
<td>Frank Quinn</td>
</tr>
<tr>
<td>James Hardie Building Products, Inc.</td>
<td>17 Unyite Drive</td>
<td>Peru, IL 61354</td>
<td>815-343-5605</td>
<td>Brian Christiansen</td>
</tr>
<tr>
<td></td>
<td>1000 James Hardie Way</td>
<td>Pulaski, VA 24301</td>
<td>540-831-9103</td>
<td>Benji Johnston</td>
</tr>
<tr>
<td>James Hardie Building Products, Inc.</td>
<td>820 Sparks Drive</td>
<td>Cleburne, TX 76031</td>
<td>817-556-9990</td>
<td>Chris Earleywine</td>
</tr>
<tr>
<td></td>
<td>18200 50th Avenue East</td>
<td>Tacoma, WA 98446</td>
<td>253-847-8700</td>
<td>Doug Cech</td>
</tr>
<tr>
<td>James Hardie Building Products, Inc.</td>
<td>2425 Highway 77N</td>
<td>Waxahachie, TX 75165</td>
<td>972-923-5300</td>
<td>Julie Allan</td>
</tr>
<tr>
<td></td>
<td>10901 Elm Avenue</td>
<td>Fontana, CA 92337</td>
<td>972-923-5300</td>
<td>George Elizarraras</td>
</tr>
</tbody>
</table>

WARRANTY:

James Hardie Building Products, Inc., warrants Hardibacker® and Hardibacker 500® Nonstructural Floor Underlayment, and Hardie Compressed Sheet Structural Subflooring against faulty performance resulting from faulty materials or workmanship in the manufacturing process for a period of 20 years from the date of installation.

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 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 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, S. W., 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 to this MR.

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 the 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. 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.

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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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