

<p 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: 1336</p>
	<p>ISSUE DATE</p> <p align="center">October 27, 2009</p>
	<p>REVIEW DATE</p> <p align="center">October 27, 2012</p>
<p>SUBJECT:</p> <p>1. Product CERACLAD Rain Screen System – Fibercement Exterior Wall Panel System</p> <p>2. Name and address of Manufacturer KubotaMatsushitadenko Exterior Works, Ltd. (“KMEW”) 13F Crystal Tower, 1-2-27 Shiromi, Chuo-Ku Osaka, 540-6013 Japan</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 wall covering.

DESCRIPTION:

CERACLAD Rain Screen System consists of ceramic coated fiber reinforce cementitious panels secured with mounting clips to code complying solid sheathing.

REQUIREMENTS:

CERACLAD Rain Screen System shall comply with the following standards:

ASTM C 1186-02, Flat Non-Asbestos Fiber Cement Sheets

LIMITATION:

CERACLAD Solid core panels are limited to locations which have less than 80 freeze-thaw cycles per year.

INSTALLATION:

CERACLAD Rain Screen System shall be installed as specified in the Manufactured Installation requirements and the configurations listed in Table 1.

**Table 1
Design wind pressure**

CERACLAD Panel Type Solid Core		
Wall Assembly	CERACLAD Assembly	Ultimate Positive And Negative Loads
2x4 Wood Studs 24" o.c. no Sheathing	Horizontal Application 1 KMEW Screw Per Clip. Clip Placed 24" o.c. Directly to Wood Stud	67.6 psf

CERACLAD Panel Type Hollow Core
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Wall Assembly	CERACLAD Assembly	Ultimate Positive And Negative Loads
2x4 Wood Stud Framing 16" o.c. with 1/2" Plywood Sheathing	Horizontal Application 1 KMEW Screw Per Clip. Clip Placed 16" o.c. Attached Through Plywood Sheathing to Wood Stud	55.5 psf
2x4 Wood Stud Framing 16" o.c. with 1/2" Plywood Sheathing, And 5/8" DensGlass Gold Over Plywood	Horizontal Application 2-3/16" KMEW Screw Per Clip. Clip Placed 16" o.c. Attached Through Plywood and DensGlass Gold Sheathing to Wood Stud	67.6 psf
3-5/8"x 1-5/8 20ga Steel Stud 16" o.c., 5/8" DensGlass Gold Sheathing, 1/2" Plywood Furring Strips Attached To Steel Studs	Horizontal Application 1 KMEW Screw 2 Per Clip. Clip Placed 16" O.C. Attached to Plywood Furring	55.5 psf
2x4 Wood Stud Framing 16" o.c. with 1/2" Plywood Sheathing	Vertical Application 1 KMEW Screws 2 Per Clip Attached to Plywood Sheathing	59.0 psf
2x4 Wood Stud Framing 16" o.c. with 1/2" Plywood Sheathing, and 5/8" DensGlass Gold Over Plywood	Vertical Application 1 KMEW Screws 2 Per Clip Attached Into Plywood Sheathing Through DensGlass Gold	60.7 psf

PRODUCT CERTIFICATION AND IDENTIFICATION:

Intertek shall certify that CERACLAD Rain Screen System described above conforms to the requirements of this MR and the following requirements:

- 1) Intertek shall issue to the manufacturer:
 - a) A label/seal/logo that identifies and certifies this product in compliance with the requirements of this MR.
 - b) A certification statement of conformance to this MR. A copy of this certification should be forwarded to HUD.
- 2) Intertek, every six (6) months at a minimum, shall visit each of the production facilities listed below. Intertek shall, at a minimum, review each production facility's Quality Control Manual (QCM), Quality Assurance procedures, in line testing, record keeping, and corrective actions. Records of such visits shall be submitted to HUD, and shall be made available in each production facility.
- 3) If changes are made to the products covered by this MR, Intertek shall notify HUD, within 30 days, of these changes with suggestions to keep/maintain, revise, or suspend this MR.

MANUFACTURING LOCATIONS:

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

Iga-factory
410-1, Higashimachi, Mita-aza, Iga-shi, Mie 518-0022, Japan

Ashikaga-factory
781-1, Hakari-cho, Ashikaga-shi, Tochigi 326-0327, Japan

Ohama-factory
10, Chikko-Minami, Sakai-ku, Sakai-shi, Osaka 590-0987, Japan

***NOTE TO SPONSOR: Please provide the contact name, phone number, and email address for each manufacturing location.**

WARRANTY:

KubotaMatsushitadenko Exterior Works, Ltd. ("KMEW") warrants to the purchaser and its transferees, including the original owner of the property upon which its Product (the KMEW CERAMIC COATING SIDING – the "Ceramic Product" or the KMEW STANDARD FINISH SIDING – the "Standard Product," collectively, the "Product") is installed as external walls, and

to the first subsequent owner of the property (each a “Covered Person”) (in the event of a multi-unit condominium, “Covered Person” shall mean the Condominium Association, Owners’ Association, or similar governing body for the owner/residents of the structure) that when manufactured, the Product is free from defects in material and manufacture, and when used for its intended purpose and properly stored, installed and maintained per KMEWs printed instructions, the Product shall be warranted as follows. [Note: All warranty periods discussed and defined herein shall be deemed to commence on the date the original installation of the Product is completed.]:

50 Year Limited Warranty: The Product shall: not incur structural cracking, rot or delaminate under normal use and wear; resist damage caused by termites; and resist damage caused by hail (except for hail associated with winds exceeding 60 miles per hour), for a period of 50 years from the original date of installation.

20 Year Limited Warranty: The Ceramic Product finish shall (a) retain its color and luster (meaning color fade shall not exceed color No.1 – 2 and E=9.6 in accordance with ISO 105-A02:1990, Test for color fastness - Part A02: Grey scale for assessing change in color) for color integrity, and shall not significantly (b) peel, (c) incur structural cracking, or (d) chip, for a period of 20 years from the original date of installation.

15 Year Limited Warranty: The Standard Product finish shall not significantly (a) peel; (b) incur structural cracking, or (c) chip, for a period of 15 years from the original date of installation.

MANUFACTURER’S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits each of the manufacturers 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, certification agency, production facilities, methods, design of the product, company name, ownership or mailing address.

5. If in the interval between the annual review of the QCM, significant changes are made to the product which would by definition revise the previously recognized facts, HUD will be informed within 30 days of formal implantations of these changes

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 7th 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 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.

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