DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems
Section: 07 24 19—Water-Drainage Exterior Insulation and Finish Systems

REPORT HOLDER:
BASF CORPORATION

EVALUATION SUBJECT:
FINESTONE® PEBBLETEx-DCA, PEBBLETEx-DCA WITH CHANNELED INSULATION AND FINESTONE® PEBBLETEx Cl-DCA WITH MAXGRIP VENEER MORTAR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

1.0 EVALUATION SCOPE
1.1 Compliance with the following codes:
- 2018 and 2015 International Building Code® (IBC)
- 2018 and 2015 International Residential Code® (IRC)

Properties evaluated:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>IBC CHAPTER</th>
<th>IRC CHAPTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weather resistance</td>
<td>14</td>
<td>R7</td>
</tr>
<tr>
<td>Structural – transverse wind load resistance</td>
<td>16</td>
<td>R6</td>
</tr>
<tr>
<td>Fire-resistance-rated construction</td>
<td>7</td>
<td>R3</td>
</tr>
<tr>
<td>Types I – IV (noncombustible) construction</td>
<td>26</td>
<td>NA</td>
</tr>
<tr>
<td>Ignition resistance</td>
<td>26</td>
<td>NA</td>
</tr>
<tr>
<td>Special Inspections</td>
<td>17</td>
<td>NA</td>
</tr>
<tr>
<td>Exterior insulation and finish systems (EIFS)</td>
<td>14</td>
<td>R7</td>
</tr>
<tr>
<td>Surface burning characteristics</td>
<td>26</td>
<td>R3</td>
</tr>
<tr>
<td>Shear bond strength</td>
<td>14</td>
<td>R7</td>
</tr>
</tbody>
</table>

1.2 Compliance with the following codes:
- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015 and 2012 International Green Construction Code® (IgCC)

2.0 USES
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with Maxgrip Veneer Mortar Systems are exterior insulation and finish systems (EIFS) complying with IBC Section 1408 and IRC Section R703.9. The systems comply with the requirements of IBC Section 1408.4.1 and IRC Section R703.9 as EIFS with drainage. Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar also complies with the requirements of 2018 IBC Section 1404.10 (2015 IBC Section 1405.10) and IRC Section R606.2.

The systems may be used in fire-resistance-rated construction and any construction type (IBC Types I through V), when installed in accordance with this report.

The attributes of the Finestone® Pebbletex-DCA Systems have been verified as conforming to the requirements of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; and (vi) ICC 700-2008 Section 602.9 for water-resistive barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.0 DESCRIPTION
3.1 System Components:
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems consist of a water-resistive barrier coating, adhesively applied flat or channeled insulation board, reinforcing mesh, base coat and finish coat. See Table 1 for system components.
3.2 Insulation Board:
The insulation board must be one of the following:

a. Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar insulation board is produced by a molder that participates in an approved third-party quality assurance program; and is labeled in accordance with Section 7.0 of this report. Pebbletex-DCA with Channeled Insulation is a channeled insulation board with vertical channels 1 inch wide by 1/4 inch deep (25.4 mm by 6.4 mm) spaced 11 inches (279 mm) apart.

b. EPS insulation board must comply with ASTM C578, Type I, and ASTM E2430, and must be produced by a molder with a certificate of compliance.

c. EPS insulation board may be produced by a molder that participates in an approved third-party quality assurance program. The board must comply with ASTM C578, Type I and ASTM E2430; demonstrate a flame spread index of 25 or less and a smoke developed index of 450 or less when tested in accordance with ASTM E84 or UL 723; is produced by a molder that participates in an approved third-party quality assurance program; and is labeled in accordance with Section 7.0 of this report. Pebbletex-DCA with Channeled Insulation board is produced by a molder that participates in an approved third-party quality assurance program; and is labeled in accordance with Section 7.0 of this report. Pebbletex-DCA with Channeled Insulation is a channeled insulation board with vertical channels 1 inch wide by 1/4 inch deep (25.4 mm by 6.4 mm) spaced 11 inches (279 mm) apart.

3.3 Substrates:

- Gypsum sheathing complying with ASTM C1396 or ASTM C1177
- Fiber cement panels complying with the ICC-ES Acceptance Criteria for Fiber Cement Siding Used as Exterior Wall Siding (AC90), and ASTM C1186
- Fiber cement panels complying with the ICC-ES Acceptance Criteria for Reinforced Cementitious Sheets Used as Wall and Ceiling Sheathing and Floor Underlayer (AC376), and ASTM C1325
- Concrete masonry complying with the code
- Concrete complying with the code
- Exterior Plaster complying with the code
- Exterior or Exposure 1 wood structural panels complying with DOC PS-1 or PS-2
- Brick masonry complying with the code

3.4 Sealants:

Sealants must comply with ASTM C920, Type S or M, minimum Grade NS, minimum Class 25 and Use O.

4.0 DESIGN AND INSTALLATION

4.1 General:
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems must be installed in accordance with the manufacturer’s installation instructions, specifications and details available at www.finestone.basf.com.

4.2 Drainage Options:

- Finestone® Pebbletex-DCA: vertical ribbons of adhesive with flat insulation board.
- Finestone® Pebbletex-DCA with Channeled Insulation: vertical ribbons of adhesive with channeled insulation board.
- Pebbletex Cl-DCA with MaxGrip Veneer Mortar: vertical ribbons of adhesive with flat insulation board.

4.3 Wind Design:

Table 2 describes specific assemblies for which test data has been submitted. Other assemblies may be considered for approval by local officials based on testing and/or calculations of a qualified design professional.

4.4 Weather Protection:
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems comply with IBC Section 1403.2 and IRC Section R703.1.1.

4.5 Use in Types I through IV (Noncombustible) Construction:

Table 3 describes the assemblies qualified for use in Types I through IV construction (IBC).

4.6 Fire-resistance-rated Construction:

Table 4 describes the assemblies qualified for use in nonload-bearing fire-resistance-rated construction.

In addition, in Type V construction, the Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems may be attached to the surface of combustible exterior fire-resistance-rated assemblies described in the IBC Table 721.1(2) without changing the assigned hourly rating of the assembly. The exterior wall must have a minimum 10-foot (3048 mm) separation distance from adjacent construction.

4.7 Special Inspections:

For recognition under the IBC, special Inspections of the water-resistive barrier coating must be conducted in accordance with the 2018 or 2015 IBC Section 1705.16.

5.0 CONDITIONS OF USE

The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with the report, the manufacturer’s published installation instructions and the applicable code. In the event of a conflict between the manufacturer’s instructions and this report, this report governs.

5.2 The insulation board must be separated from the building interior by a thermal barrier complying with the applicable code.

5.3 Installation must be by applicators listed by BASF Corporation.

5.4 Termination of the systems must not be less than 6 inches (152 mm) above finished grade in accordance with the 2018 or 2015 IBC Section 2603.8 and IRC Section R318.4.

5.5 The Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar System must comply with the following:

5.5.1 The system is limited to precast stone veneer recognized in a current ICC-ES evaluation report demonstrating compliance with the ICC-ES Acceptance Criteria for Precast Stone Veneer (AC51). Installation of the precast stone veneer must be in accordance with applicable
requirements of 2018 IBC Section 1404.10 (2015 IBC Section 1405.10). Thin brick veneer units must comply with the applicable requirements of ASTM C1088.

5.5.2 The thickness of the insulation board must not exceed 4 inches (102 mm).

5.5.3 Adhered masonry veneer units shall not exceed 15 lbs/ft² (73 Kg/m²) with no unit greater than 30 lb (13.2 kg).

5.5.4 In jurisdictions adopting the IBC, the supporting wall must be designed to support the installed weight of the adhered veneer system. At wall opening, the supporting members must be designed to limit deflection to 1/600 of the span of the supporting members.

5.5.5 In jurisdictions adopting the IRC, where the seismic provisions of IRC Section R301.2.2 apply, the average weight of the wall including the weight of the adhered veneer must be determined. Where this weight exceeds the applicable limits of 2018 IRC Section R301.2.2.2 [2015 IRC Section R301.2.2.2.1], an engineered design of the wall must be performed in accordance with IRC Section R301.1.3.

6.0 EVIDENCE SUBMITTED

6.1 Reports of tests in accordance with ASTM E2568 and ASTM E2273.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for EIFS Clad Drainage Wall Assemblies (AC235), dated January 2015, (editorially revised April 2018).

6.3 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Coatings Used as Water-resistive Barriers over Exterior Sheathing (AC212), dated February 2015 (editorially revised April 2018).

6.4 Data in accordance with the ICC-ES Acceptance Criteria for Foam Plastic Insulation (AC12), dated June 2015 (editorially revised October 2017).

6.5 Reports of tests in accordance with NFPA 285.


7.0 IDENTIFICATION

7.1 Each container or package of the coating or reinforcing mesh used as part of the Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems must be labeled with the manufacturer’s name (BASF Corporation) and address; the product name; lot or batch number; quantity of material; storage instructions; pot life; expiration date; and the evaluation report number(ESR-2186).

Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex Cl-DCA with MaxGrip Veneer Mortar Systems insulation board must be labeled on the edge of each board with the BASF Corporation name, the plant identification number and the evaluation number (ESR-2186).

Other foam plastic insulation must be labeled in accordance with the current ICC-ES evaluation report in which it is recognized, or in accordance with IBC Sections 2603.2 and 2603.5.6, or IRC Section 316.2, as applicable.

Precast stone veneer units must be labeled in accordance with the requirements of AC51.

7.2 The report holder’s contact information is the following:

BASF CORPORATION
3550 ST. JOHNS BLUFF ROAD SOUTH
JACKSONVILLE, FLORIDA 32224
(904) 996-6000
www.wallsystems.basf.com

<table>
<thead>
<tr>
<th>TABLE 1—SYSTEM COMPONENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SYSTEM</strong></td>
</tr>
<tr>
<td>Pebbletex-DCA</td>
</tr>
<tr>
<td>Pebbletex-DCA with Channeled Insulation</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Pebbletex Cl-DCA with Maxgrip Veneer Mortar</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

¹Higher weight meshes are allowable.
²For aesthetic conditions, Sanded Primer is applied over dry base coat at joints before installation of sealant.
³See Section 5.5.
### TABLE 2—WIND LOAD DESIGN

<table>
<thead>
<tr>
<th>FRAMING³</th>
<th>SUBSTRATE</th>
<th>EPS</th>
<th>Allowable Wind Load (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Maximum Spacing (inches)</td>
<td>EPS Min. Thickness (inch)</td>
<td>Coating</td>
</tr>
<tr>
<td>2x4 Wood¹</td>
<td>16 Min 7/16 inch wood structural panel, attached in accordance with the code</td>
<td>1</td>
<td>Systems described in Table 1 using Finestop-RA</td>
</tr>
<tr>
<td>3⁵/₈-inch by No. 20 gage steel</td>
<td>16 ASTM C1396 gypsum sheathing or ASTM C177 glass-mat gypsum sheathing, attached with #6 x 1 1/₄-inch buglehead screws at 8 inches on center</td>
<td>1</td>
<td>Systems described in Table 1 using Finestop-RA</td>
</tr>
<tr>
<td>3⁵/₈-inch by No. 20 gage steel</td>
<td>16 ASTM C1325 cement board, ASTM C1396 gypsum sheathing or ASTM C1177 glass-mat gypsum sheathing, attached with #8 x 1 1/₄-inch buglehead screws at 8 inches on center on edges and 12 inches on center in the field</td>
<td>1</td>
<td>Systems described in Table 1 using Finestop</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>Concrete or concrete-masonry</td>
<td>1</td>
</tr>
</tbody>
</table>

¹Minimum 2x4 wood framing, minimum specific gravity 0.42.
²Maximum positive pressure is limited to the capacity of the concrete or concrete masonry substrate, determined in accordance with the applicable code.
³The framing members must be designed to resist all positive and negative transverse loads with a maximum allowable deflection of 1/240 of the span.

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### TABLE 3—ASSEMBLIES²³ FOR USE IN TYPES I THROUGH IV CONSTRUCTION

<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING</th>
<th>EXTERIOR SHEATHING</th>
<th>INSULATION BOARD THICKNESS MAXIMUM (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>Max. Depth (inches)</td>
<td>Min. Gage</td>
<td>Min. Spacing (inches)</td>
</tr>
<tr>
<td>3⁵/₈</td>
<td>20</td>
<td>16 oc</td>
<td>ASTM C36 or ASTM C1396</td>
</tr>
</tbody>
</table>

¹The fasteners are #6 x 1 1/₄- inch-long bugle head screws.
²Coating system is as described in Table 1.
³When applied directly to concrete or masonry, the walls may be considered noncombustible construction.
⁴For the Channeled Adhesive CI Design with Maxgrip Veneer Mortar the maximum thickness of the foam plastic insulation must not exceed 4 inches.

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### TABLE 4—FIRE-RESISTANCE RATED ASSEMBLIES²³

<table>
<thead>
<tr>
<th>FRAMING MEMBERS</th>
<th>INTERIOR SHEATHING</th>
<th>EXTERIOR SHEATHING</th>
<th>INSULATION BOARD THICKNESS MAXIMUM (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel</td>
<td>Max. Depth (inches)</td>
<td>Min. Gage</td>
<td>Min. Spacing (inches)</td>
</tr>
<tr>
<td>3⁵/₈</td>
<td>18</td>
<td>16 oc</td>
<td>ASTM C36 or ASTM C1396 Type X</td>
</tr>
</tbody>
</table>

¹The fasteners are #6 x 1 1/₄- inch-long bugle head screws.
²Coating system is as described in Table 1.
³Rated from both sides.
DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 24 00—Exterior Insulation and Finish Systems
Section: 07 24 19—Water-Drainage Exterior Insulation and Finish System

REPORT HOLDER:
BASF CORPORATION

EVALUATION SUBJECT:
FINESTONE® PEBBLETEX-DCA, PEBBLETEX-DCA WITH CHANNELED INSULATION AND FINESTONE® PEBBLETEX CI-DCA WITH MAXGRIP VENEER MORTAR EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)

1.0 REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex CI-DCA with Maxgrip Veneer Mortar Exterior Insulation and Finish Systems (EIFS), recognized in ICC-ES master evaluation report ESR-2186, has also been evaluated for compliance with the codes noted below.

Applicable code edition(s):
- 2019 California Building Code® (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.
- 2019 California Residential Code® (CRC)

2.0 CONCLUSIONS

2.1 CBC:
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation and Finestone® Pebbletex CI-DCA with Maxgrip Veneer Mortar Exterior Insulation and Finish Systems (EIFS), described in Sections 2.0 through 7.0 of the evaluation report ESR-2186, comply with CBC Chapters 14 and 26, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapters 14, 16, 17 and 26, as applicable.

The products have not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

2.1.1 OSHPD:
The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:
DSA requirements as indicated in the CBC are beyond the scope of this supplement.

2.2 CRC:
The Finestone® Pebbletex-DCA, Pebbletex-DCA with Channeled Insulation Exterior Insulation and Finish Systems (EIFS) and Finestone® Pebbletex CI-DCA with Maxgrip Veneer Mortar, described in Sections 2.0 through 7.0 of the evaluation report ESR-2186, comply with CRC Chapters 3 and 7, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the master report.

The products have not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code®.

This supplement expires concurrently with the evaluation report, reissued November 2019, revised June 2020.