



**CERTIFICATION**



**Approved. Sealed. Code Compliant.**

**Technical Evaluation Report**

**TER 2002-03**

RockCast Lightweight Stone Masonry  
Units

**Reading Rock, Inc.**

**Product:**

**RockCast Lightweight Series**

Issue Date:

January 11, 2021

Revision Date:

January 11, 2021

Subject to Renewal:

January 1, 2022



COMPANY  
INFORMATION:

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DIVISION: 04 00 00 - MASONRY

SECTION: 04 42 00 - Exterior Stone Cladding

SECTION: 04 43 13 - Stone Masonry Veneer

SECTION: 04 73 00 - Manufactured Stone Masonry

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## 1 PRODUCT EVALUATED<sup>1</sup>

1.1 RockCast Lightweight Series

## 2 APPLICABLE CODES AND STANDARDS<sup>2,3</sup>

### 2.1 Codes

- 2.1.1 *IBC—12, 15, 18: International Building Code®*
- 2.1.2 *IRC—12, 15, 18: International Residential Code®*
- 2.1.3 *FBC-B—17, 20: Florida Building Code – Building<sup>4</sup>*
- 2.1.4 *FBC-R—17, 20: Florida Building Code – Residential<sup>5</sup>*

### 2.2 Standards and Referenced Documents

- 2.2.1 *ASTM C1194: Standard Test Method for Compressive Strength of Architectural Cast Stone*
- 2.2.2 *ASTM C1195: Standard Test Method for Absorption of Architectural Cast Stone*
- 2.2.3 *ASTM C1364: Standard Specification for Architectural Cast Stone*
- 2.2.4 *ASTM C150: Standard Specification for Portland Cement*
- 2.2.5 *ASTM C231: Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method*
- 2.2.6 *ASTM C33: Standard Specification for Concrete Aggregates*
- 2.2.7 *ASTM C426: Standard Test Method for Linear Drying Shrinkage of Concrete Masonry Units*
- 2.2.8 *ASTM C578: Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*

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<sup>1</sup> For more information, visit [drjcertification.org](http://drjcertification.org) or call us at 608-310-6748.

<sup>2</sup> Unless otherwise noted, all references in this TER are from the 2018 version of the codes and the standards referenced therein. This material, design, or method of construction also complies with the 2000-2015 versions of the referenced codes and the standards referenced therein.

<sup>3</sup> All terms defined in the applicable building codes are italicized.

<sup>4</sup> All references to the *FBC-B* are the same as the 2018 *IBC* unless otherwise noted.

<sup>5</sup> All references to the *FBC-R* are the same as the 2018 *IRC* unless otherwise noted.

- 2.2.9 *ASTM C666: Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing*
- 2.2.10 *ASTM C979: Standard Specification for Pigments for Integrally Colored Concrete*
- 2.2.11 *ASTM E488: Standard Test Methods for Strength of Anchors in Concrete Elements*
- 2.2.12 *ASTM E831: Standard Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis*
- 2.2.13 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*
- 2.2.14 *NFPA 285: Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Nonload-bearing Wall Assemblies Containing Combustible Components*
- 2.2.15 *TMS 402: Building Code for Masonry Structures*
- 2.2.16 *TMS 602: Specification for Masonry Structures*

### 3 PERFORMANCE EVALUATION

- 3.1 RockCast Lightweight Series was evaluated to determine the following:
  - 3.1.1 Physical properties of limestone composite shell in accordance with IBC Section 2103.1, including compressive strength, absorption, linear drying shrinkage, air content, and freeze-thaw.
  - 3.1.2 Use as an *exterior wall covering* in accordance with IBC Section 1404<sup>6</sup> and IRC Section R703.
  - 3.1.3 Use an *interior wall and ceiling finish* material in accordance with IBC Section 803 and IBC Section 2603.4.1.1.
  - 3.1.4 Use as a masonry construction material in accordance with IBC Section 2103.1 and IRC Section R606.2.
  - 3.1.5 Performance for use in buildings of Type I-V in accordance with IBC Chapter 6.
  - 3.1.6 Performance in accordance with *ASTM E84* for flame spread and smoke development ratings in accordance with IBC Section 2603.3 and Section 2603.5.4 and IRC Section R302.9.
  - 3.1.7 Performance with regard to thermal barrier requirements in accordance with IBC Section 2603.4.
  - 3.1.8 Performance with regard to vertical and lateral fire propagation in accordance with IBC Section 2603.5.5.
  - 3.1.9 Use as a part of an *NFPA 285* wall assembly in accordance with IBC Section 1402.5<sup>7</sup> and Section 2603.5.5.
- 3.2 RockCast Lightweight Series was evaluated for installation over concrete, masonry, or cold formed steel studs using the RockCast Lightweight Series Installation System.
  - 3.2.1 For mechanical attachment, fasteners must be in accordance with Section 6 and the manufacturer's installation instructions.
  - 3.2.2 Connection of RockCast Lightweight Series elements to substrate requires an engineered design in accordance with Section 9.
- 3.3 The ability of the fastening system to support the gravity and transverse loads is outside the scope of this TER.
- 3.4 Any code compliance issues not specifically addressed in this section are outside the scope of this TER.
- 3.5 Any engineering evaluation conducted for this TER was performed on the dates provided in this TER and within DrJ's professional scope of work.

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<sup>6</sup> 2015 IBC Section 1405, FBC-B Section 1405

<sup>7</sup> 2015 IBC Section 1403.5, FBC-B Section 1403.5

## 4 PRODUCT DESCRIPTION AND MATERIALS

4.1 An example profile of the product evaluated in this TER is shown in Figure 1 and Figure 2.

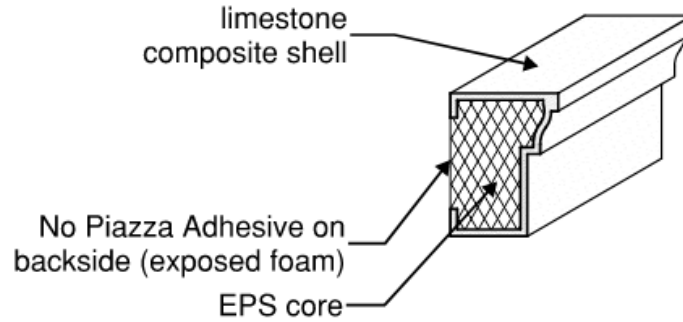


FIGURE 1. ROCKCAST LIGHTWEIGHT SERIES FOR GENERAL APPLICATIONS

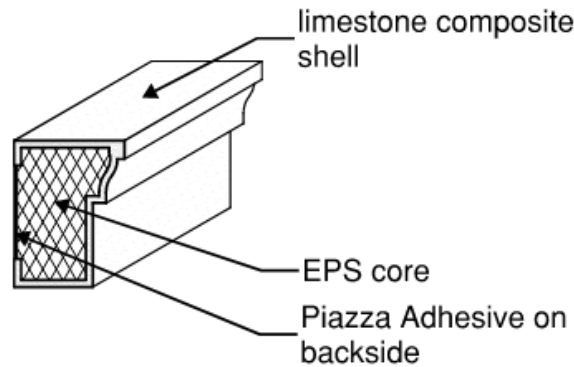


FIGURE 2. ROCKCAST LIGHTWEIGHT SERIES FOR *NFPA 285* COMPLIANT APPLICATIONS

4.2 RockCast Lightweight Series is a non-structural architectural stone decorative façade product consisting of an expanded polystyrene (EPS) foam core encased in a limestone composite shell.

4.2.1 The EPS foam is Type I in accordance with *ASTM C578*.

4.2.2 The limestone composite shell is cast from a single-component, polymer-modified cementitious mix that includes the following materials:

4.2.2.1 Portland cement, in accordance with *ASTM C150*, Type I or III

4.2.2.2 Coarse aggregates, in accordance with *ASTM C33*, including granite, quartz, or limestone

4.2.2.3 Fine aggregates, in accordance with *ASTM C33*, including manufactured or natural sand

4.2.2.4 Inorganic iron oxide pigments, in accordance with *ASTM C979*, except carbon black pigments

4.3 *Material Availability*

4.3.1 RockCast Lightweight Series is available in a variety of sizes and profiles.

## 5 APPLICATIONS

5.1 *General*

5.1.1 RockCast Lightweight Series is an architectural stone complying with *IBC Section 1404*<sup>8</sup> and *IRC Section R703*.

5.1.2 RockCast Lightweight Series is used in buildings of Type I-V construction in accordance with *IBC Chapter 6*.

<sup>8</sup> 2015 *IBC Section 1405*, *FBC-B Section 1405*

- 5.1.3 RockCast Lightweight Series products must be installed using the RockCast Lightweight Series Installation System over concrete, masonry, or cold formed steel studs.
- 5.1.4 Where the application exceeds the limitations set forth herein, design shall be permitted in accordance with accepted engineering procedures, experience, and technical judgment.

**5.2 Compressive Strength**

- 5.2.1 The RockCast Lightweight Series limestone composite shell was tested to assess its compressive strength in accordance with *ASTM C1194* per *ASTM C1364* (Table 1).

TABLE 1. COMPRESSIVE STRENGTH

Product	Average Compressive Strength (psi)
RockCast Lightweight Series	6,850
SI: 1 psi = 0.00689 MPa 1. The limestone composite shell tested in accordance with <i>ASTM C1194</i>	

**5.3 Water Absorption**

- 5.3.1 The RockCast Lightweight Series limestone composite shell was tested to assess its performance with regard to water absorption in accordance with *ASTM C1195* per *ASTM C1364* (Table 2).

TABLE 2. WATER ABSORPTION

Product	Average Absorption Mass (%)
RockCast Lightweight Series	2.7
1. The limestone composite shell tested in accordance with <i>ASTM C1195</i>	

**5.4 Air Content**

- 5.4.1 The RockCast Lightweight Series limestone composite shell was tested for sufficient air content in accordance with *ASTM C231* per *ASTM C1364* (Table 3).

TABLE 3. AIR CONTENT

Product	Average Air Content (%)
RockCast Lightweight Series	9.5
1. The limestone composite shell tested in accordance with <i>ASTM C231</i>	

**5.5 Freeze-Thaw Durability**

- 5.5.1 The RockCast Lightweight Series limestone composite shell was tested to assess cumulative percent mass loss (CPWL) after experiencing rapidly repeated cycles of freezing and thawing, in accordance with *ASTM C666 Procedure A* per *ASTM C1364* (Table 4).

TABLE 4. FREEZE-THAW DURABILITY

Product	CPWL (%)
RockCast Lightweight Series	0.5
1. The limestone composite shell tested in accordance with <i>ASTM C666</i>	

5.6 *Linear Drying Shrinkage*

5.6.1 RockCast Lightweight Series limestone composite shell was tested in accordance with *ASTM C426* to determine linear shrinkage per *ASTM C1364* (Table 5).

TABLE 5. LINEAR SHRINKAGE

Product	Average Linear Shrinkage (%)
RockCast Lightweight Series	0.150
1. The limestone composite shell tested in accordance with <i>ASTM C426</i>	

5.7 *Linear Thermal Expansion*

5.7.1 The RockCast Lightweight Series limestone composite shell was tested in accordance with *ASTM E831* to determine the coefficient of thermal expansion (Table 6).

TABLE 6. THERMAL EXPANSION

Product	Average Coefficient of Thermal Expansion (in/in°F)
RockCast Lightweight Series	3.165 x 10 <sup>-6</sup>
1. The composite shell tested in accordance with <i>ASTM E831</i>	

5.8 *Surface Burn Characteristics*

5.8.1 Flame spread and smoke developed indexes for RockCast Lightweight Series are shown in Table 7.

TABLE 7. SURFACE BURN CHARACTERISTICS

Product	Flame Spread	Smoke Developed
RockCast Lightweight Series	< 25	< 450
1. Product tested in accordance with <i>ASTM E84</i>		

5.9 *Thermal Barrier Requirements*

- 5.9.1 For exterior applications, RockCast Lightweight Series shall be separated from the interior of a building by an approved thermal barrier in accordance with *IBC Section 2603.4*.
- 5.9.2 For interior applications, RockCast Lightweight Series is approved for use without a thermal barrier when the limestone composite shell layer over the foam is a minimum of 1" thick per *IBC Section 2603.4.1.1*.

5.10 Vertical and Lateral Fire Propagation

5.10.1 RockCast Lightweight Series was tested to assess performance with regard to vertical and lateral fire propagation in accordance with *NFPA 285* and *IBC Section 2603.5.5*.

5.10.1.1 The wall assemblies listed in Table 8 are approved for use in buildings of Type I-V construction.

5.10.1.2 See Figure 3 for an approved *NFPA 285*-compliant window header/perimeter detail.

TABLE 8. APPROVED *NFPA 285* WALL ASSEMBLIES<sup>1</sup>

Wall Component	Materials
<b>Base Wall System</b> Use any item 1-3	<ol style="list-style-type: none"> <li>Cast concrete walls</li> <li>CMU concrete walls</li> <li>Steel studs – 18 ga. (min.), 3<sup>5</sup>/<sub>8</sub>" (min.), 16" o.c. (max.)</li> </ol>
<b>Floorline Firestopping</b>	<ol style="list-style-type: none"> <li>4 inch, 4 pcf mineral fiber (mineral wool) friction fit or installed with z-clips</li> </ol>
<b>Cavity Insulation</b> Use any item 1-4	<ol style="list-style-type: none"> <li>None</li> <li>Any noncombustible insulation per <i>ASTM E136</i></li> <li>Any mineral fiber or mineral wool (faced or unfaced)</li> <li>Any fiberglass (faced or unfaced)</li> </ol>
<b>Exterior Sheathing</b>	<ol style="list-style-type: none"> <li>One (1) layer ½" or thicker exterior type gypsum sheathing</li> </ol>
<b>WRB over Sheathing</b>	<ol style="list-style-type: none"> <li>Piazza Air &amp; Weather Barrier</li> </ol>
<b>Steel Channel</b> For Exterior Insulation	<ol style="list-style-type: none"> <li>2" (max.) vertical steel channel (Piazza-Z) 16" o.c. (max.)</li> </ol>
<b>Exterior Insulation<sup>2</sup></b> Use item 1 or 2	<ol style="list-style-type: none"> <li>2" (max.) Dow Styrofoam Type IV or Type X</li> <li>2" (max.) Owens Corning Foamular 250 Type IV or Type X</li> </ol>
<b>Horizontal Track</b>	<ol style="list-style-type: none"> <li>¾ inch (max.) horizontal steel track (Piazza track) to attach RockCast Lightweight Series</li> </ol>
<b>Exterior Cladding<sup>3</sup></b>	<ol style="list-style-type: none"> <li>RockCast Lightweight Series               <ol style="list-style-type: none"> <li>Foam Core: 12" (max.) ACH 1 pcf EPS for wall area</li> <li>Masonry Shell: 5/8" (min.) RockCast Lightweight Series</li> <li>Piazza Adhesive (¼" thickness)</li> </ol> </li> </ol>
<b>Joint Caulk</b>	<ol style="list-style-type: none"> <li>Pecora 890FTS – TXTR (with mineral wool backer material)</li> </ol>
<b>Special Condition</b>	<ol style="list-style-type: none"> <li>Header/jamb/sill shall conform to the design shown in Figure 3.</li> </ol>
SI: 1 in = 25.4 mm <ol style="list-style-type: none"> <li>The assemblies and combinations created herein and the various substitutions of products are based on testing and professional thermal engineering analysis by Priest &amp; Associates Consulting, LLC.</li> <li>Exterior insulation is attached using Piazza-Z clips. RockCast Lightweight Series is attached using clips and track to Piazza-Z.</li> <li>Any decorative piece of any reasonable shape may be allowed as long as either condition below is met:               <ol style="list-style-type: none"> <li>The per foot volume does not exceed 3,456 cubic inches per foot of length.</li> <li>The per foot cross sectional area does not exceed 288 square inches.</li> </ol> </li> </ol>	

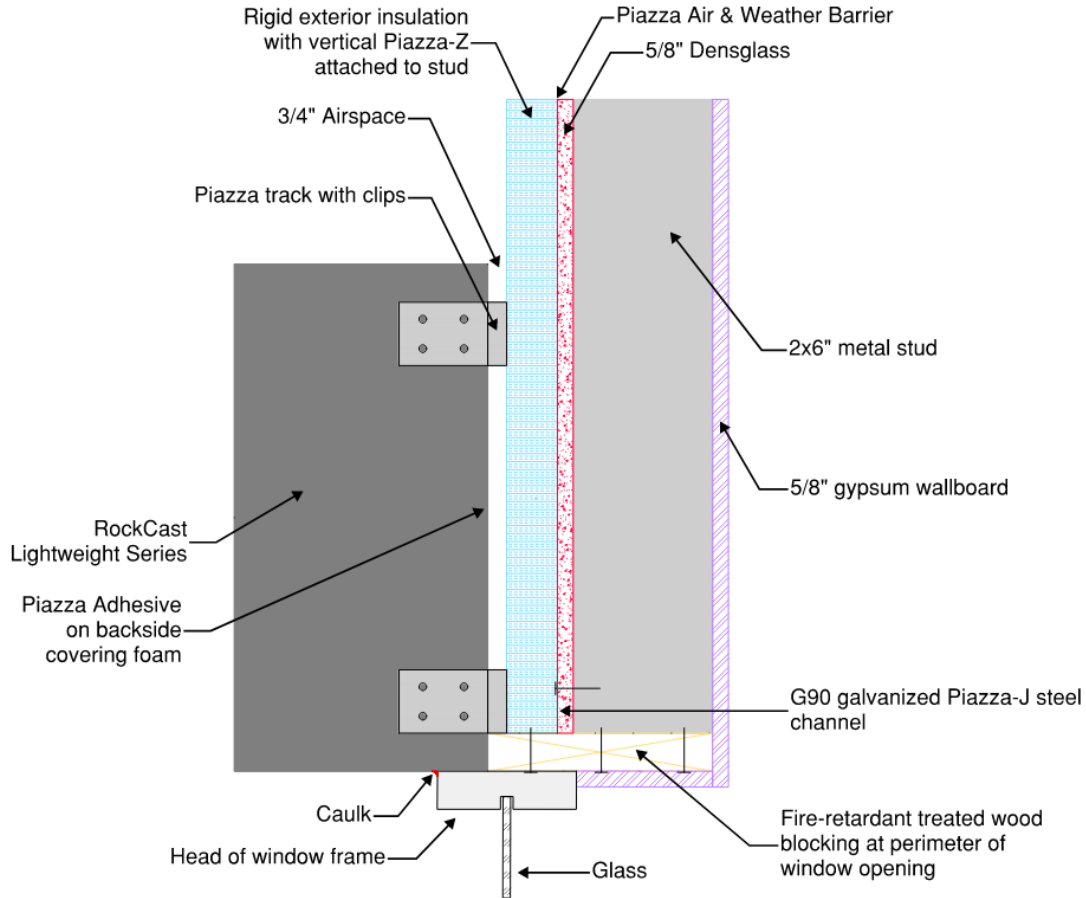


FIGURE 3. WINDOW HEADER/PERIMETER DETAIL FOR *NFPA 285* COMPLIANCE

## 6 INSTALLATION

### 6.1 General

- 6.1.1 RockCast Lightweight Series shall be installed with the RockCast Lightweight Series Installation System in accordance with the engineered design, manufacturer's product data, and approved shop drawings. In the event of a conflict between the manufacturer's installation instructions and this TER, the more restrictive shall govern.
- 6.1.2 All other installation and flashing details germane to the project shall be in accordance with the applicable building code and manufacturer's installation instructions.
- 6.1.3 RockCast Lightweight Series shall be installed over substrates of concrete, masonry, or cold formed steel studs.
- 6.1.4 Substrates shall be flat within  $\frac{1}{4}$ " in 4'-0" and deviations shall be corrected before beginning installation.
- 6.1.5 Installation shall be performed by an applicator certified by the manufacturer.
- 6.1.6 Installation is subject to conditions of use set forth in Section 9 of this TER.

### 6.2 *NFPA 285-Compliant Installation Method*

- 6.2.1 The wall assembly shall comply with the vertical and lateral fire propagation requirements of Section 5.10.
- 6.2.2 The exposed EPS on the backside of the units shall be completely covered and sealed using Piazza Adhesive, as shown in Figure 2. The Piazza Adhesive shall be a continuous  $\frac{1}{4}$ " thick coat and shall be applied using a trowel.
- 6.2.3 The adhesive should be allowed to set for six to eight hours after applying to the RockCast Lightweight Series units.



- 6.2.4 Piazza Track System is attached to the substrate, then RockCast Lightweight Series units shall be positioned and mechanically attached to the clips according to the approved shop drawings.
- 6.2.5 *Fasteners:*
- 6.2.5.1 Fasteners for attaching the clips to the RockCast Lightweight Series units shall be cadmium coated Hilti Kwik Con II  $\frac{3}{16}$ " or  $\frac{1}{4}$ " diameter x  $\frac{1}{4}$ " length anchors, or equal. Longer fasteners are allowed.
- 6.2.5.2 All fasteners must meet ASTM B117 – 1000 Hour Salt Spray
- 6.2.5.3 All fasteners must be in accordance with manufacturer's product data and approved shop drawings.
- 6.2.6 Maintain a  $\frac{3}{8}$ " to 1" joint spacing between units.
- 6.2.7 Caulk joints using Pecora 890FTS-TXTR or equivalent.
- 6.3 *Adhesion Installation Method*
- 6.3.1 Substrate surfaces shall be clean, dry, structurally sound, and free of paint, efflorescence, grease, oil, form release agents, and curing compounds.
- 6.3.2 Piazza Adhesive shall be mixed according to manufacturer's instructions.
- 6.3.3 Piazza Adhesive shall be applied directly to the RockCast Lightweight Series units, not the substrate.
- 6.3.4 Use ribbon and dab method. Apply mixed Piazza Adhesive in a ribbon of approximately 2" wide by  $\frac{3}{8}$ " thick to entire perimeter of RockCast Lightweight Series unit using a trowel. Apply dabs of  $\frac{3}{8}$ " to  $\frac{5}{8}$ " thickness by 4" in diameter approximately 8" o.c., both vertically and horizontally, over entire RockCast Lightweight Series unit.
- 6.3.5 Units shall be immediately placed on the substrate.
- 6.3.6 The RockCast Lightweight Series units shall be allowed to set for six to eight hours after applying adhesive.
- 6.3.7 Maintain a  $\frac{3}{8}$ " to 1" joint spacing between units.
- 6.3.8 Caulk joints using Pecora 890FTS-TXTR or equivalent.
- 6.4 *Mechanical Installation Method where NFPA 285 compliance is not required*
- 6.4.1 The exposed EPS on the backside of the units does not need to be covered and sealed using Piazza Adhesive, as shown in Figure 1.
- 6.4.2 Method 1: Piazza Track System is attached to the substrate, then RockCast Lightweight Series units shall be positioned and mechanically attached to the clips according to the approved shop drawings.
- 6.4.3 Method 2: PZ Connectors are attached to the substrate, then RockCast Lightweight Series units shall be positioned and mechanically attached according to the approved shop drawings.
- 6.4.4 *Fasteners:*
- 6.4.4.1 Fasteners for attaching the clips to the RockCast Lightweight Series units shall be cadmium coated Hilti Kwik Con II  $\frac{3}{16}$ " or  $\frac{1}{4}$ " diameter x  $\frac{1}{4}$ " length anchors, or equal. Longer fasteners are allowed.
- 6.4.4.2 All fasteners must meet ASTM B117 – 1000 Hour Salt Spray
- 6.4.4.3 All fasteners must be in accordance with manufacturer's product data and approved shop drawings.
- 6.4.5 Maintain a  $\frac{3}{8}$ " to 1" joint spacing between units.
- 6.4.6 Caulk joints using Pecora 890FTS-TXTR or equivalent.

- 6.4.7 A standard mechanical installation example without rigid insulation is shown in Figure 4.
- 6.4.8 To meet energy code requirements, Piazza-Z can be used vertically with rigid insulation.

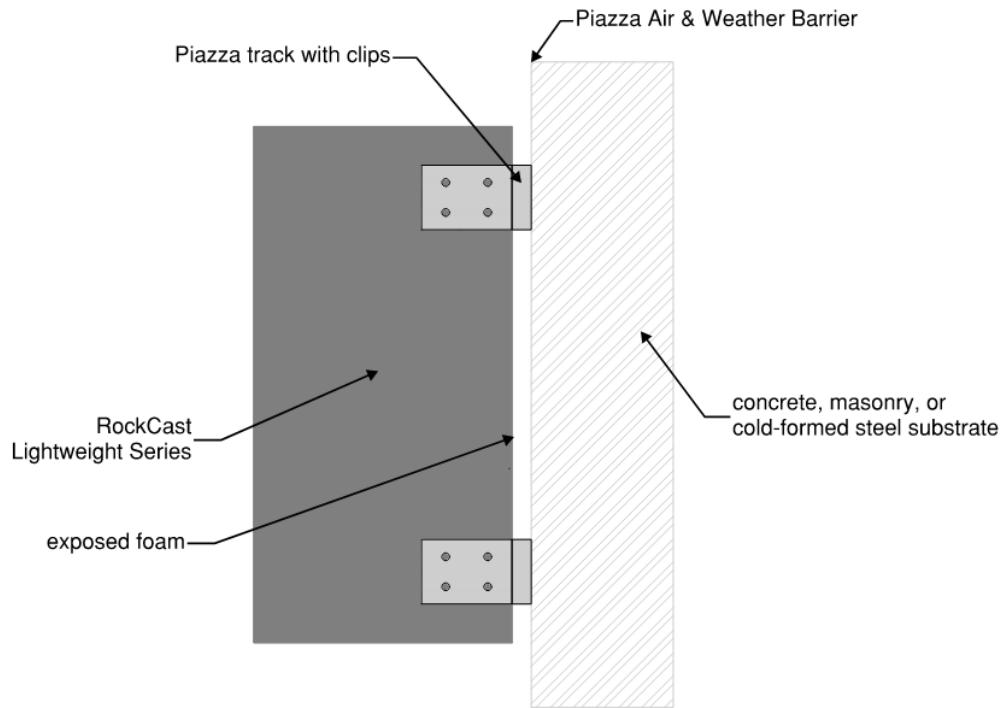


FIGURE 4. EXAMPLE OF MECHANICAL ATTACHMENT OF ROCKCAST LIGHTWEIGHT SERIES TO SUBSTRATE

## 7 SUBSTANTIATING DATA

- 7.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
  - 7.1.1 Compressive strength in accordance with *ASTM C1194* per *ASTM C1364*
  - 7.1.2 Water absorption in accordance with *ASTM C1195* per *ASTM C1364*
  - 7.1.3 Air content in accordance with *ASTM C231* per *ASTM C1364*
  - 7.1.4 Freezing and thawing resistance in accordance with *ASTM C666* per *ASTM C1364*
  - 7.1.5 Linear shrinkage in accordance with *ASTM C426* per *ASTM C1364*
  - 7.1.6 Thermal expansion in accordance with *ASTM E831*
  - 7.1.7 Surface burning characteristics in accordance with *ASTM E84*
  - 7.1.8 Exterior wall fire testing in accordance with *NFPA 285*
  - 7.1.9 Engineering analysis assessing the substitution of products within the approved *NFPA 285*
  - 7.1.10 Tensile and shear strength of post-installed anchors in accordance with *ASTM E488*
- 7.2 Information contained herein is the result of testing and/or data analysis by sources which conform to [IBC Section 1703](#) and/or [professional engineering regulations](#). DrJ relies upon accurate data to perform its ISO/IEC 17065 evaluations.

- 7.3 Where appropriate, DrJ's analysis is based on provisions that have been codified into law through state or local adoption of codes and standards. The providers of the codes and standards are legally responsible for their content. DrJ analysis may use code-adopted provisions as a control sample. A control sample versus a test sample establishes a product as being equivalent to that prescribed in this code in quality, strength, effectiveness, fire resistance, durability, and safety. Where the accuracy of the provisions provided herein is reliant upon the published properties of materials, DrJ relies upon the grade mark, grade stamp, mill certificate, and/or test data provided by material suppliers to be minimum properties. DrJ analysis relies upon these properties to be accurate.

## 8 FINDINGS

- 8.1 When used and installed in accordance with this TER and the manufacturer's installation instructions, the product(s) listed in Section 1.1 are approved for the following:
- 8.1.1 Use as an exterior wall covering in accordance with IBC Section 1404<sup>9</sup> and IRC Section R703 when attached to the wall using the RockCast Lightweight Series Installation System
  - 8.1.2 Use an interior wall and ceiling finish material in accordance with IBC Section 803 and IBC Section 2603.4.1.1 when attached to the wall using the RockCast Lightweight Series Installation System
  - 8.1.3 Use as a masonry construction material in accordance with IBC Section 2103.1 and IRC Section R606.2
  - 8.1.4 Use in buildings of Type I-V in accordance with IBC Chapter 6
  - 8.1.5 Use as a part of an NFPA 285 wall assembly in accordance with IBC Section 1402.5<sup>10</sup> and Section 2603.5.5
- 8.2 This product has been evaluated in the context of the codes listed in Section 2 and is compliant with all known state and local building codes. Where there are known variations in state or local codes applicable to this TER, they are listed here.
- 8.2.1 No known variations
- 8.3 Building codes require data from valid research reports be obtained from approved sources (i.e., licensed registered design professionals [RDPs]).
- 8.3.1 Building official approval of a licensed RDP is performed by verifying the RDP and/or their business entity is listed by the licensing board of the relevant jurisdiction.
- 8.4 Agencies who are accredited through ISO/IEC 17065 have met the code requirements for approval by the building official. DrJ is an ISO/IEC 17065 ANAB-Accredited Product Certification Body – Accreditation #1131 and employs RDPs.
- 8.5 Through ANAB accreditation and the IAF MLA, DrJ certification can be used to obtain product approval in any jurisdiction or country that has IAF MLA Members & Signatories to meet the Purpose of the MLA – “certified once, accepted everywhere.”
- 8.6 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.9 are similar) states:

**104.11 Alternative materials, design and methods of construction and equipment.** The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code...Where the alternative material, design or method of construction is not *approved*, the *building official* shall respond in writing, stating the reasons the alternative was not *approved*.

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<sup>9</sup> 2015 IBC Section 1405

<sup>10</sup> 2015 IBC Section 1403.5



## 9 CONDITIONS OF USE

- 9.1 Installation shall be on exterior or interior walls with a substrate of concrete, masonry, or cold formed steel studs capable of supporting the imposed loads, as determined by architect or engineer of record.
- 9.2 Connection of RockCast Lightweight Series elements to substrate requires an engineered design. Refer to manufacturer approved shop drawings.
- 9.3 For interior applications, the foam must be covered with a minimum of 1" RockCast Lightweight Series limestone composite shell on all exposed sides in accordance with IBC Section 2603.4.1.1.
- 9.4 Where required by the building official, also known as the authority having jurisdiction (AHJ) in which the project is to be constructed, this TER and the installation instructions shall be submitted at the time of permit application.
- 9.5 Any generally accepted engineering calculations needed to show compliance with this TER shall be submitted to the AHJ for review and approval.
- 9.6 Design loads shall be determined in accordance with the building code adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (e.g., owner or RDP).
- 9.7 At a minimum, this product shall be installed per Section 6 of this TER.
- 9.8 This product has an internal quality control program and a third-party quality assurance program in accordance with IBC Section 104.4 and Section 110.4 and IRC Section R104.4 and Section R109.2.
- 9.9 The actual design, suitability, and use of this TER, for any particular building, is the responsibility of the owner or the owner's authorized agent.
- 9.10 This TER shall be reviewed for code compliance by the AHJ in concert with IBC Section 104.
- 9.11 The implementation of this TER for this product is dependent on the design, quality control, third-party quality assurance, proper implementation of installation instructions, inspections required by IBC Section 110.3, and any other code or regulatory requirements that may apply.

## 10 IDENTIFICATION

- 10.1 The product listed in Section 1.1 is identified by a label on the board or packaging material bearing the manufacturer's name, product name, TER number, and other information to confirm code compliance.
- 10.2 Additional technical information can be found at readingrock.com.

## 11 REVIEW SCHEDULE

- 11.1 This TER is subject to periodic review and revision. For the most recent version, visit drjcertification.org.
- 11.2 For information on the current status of this TER, contact DrJ Certification.