



Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 1212-01



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Versetta Stone® Panelized Stone Veneer Applications Over Continuous Insulation

Trade Secret Report Holder:

Westlake Royal Stone, LLC

2801 Post Oak Blvd Ste 600
Houston, TX 77056-6110
Phone: 855-769-2585
Website: www.westlakeroyalbuildingproducts.com

Additional Listees:

Versetta Stone®
350 Tower Rd
American Canyon, CA 94503-9675
Website: www.versettastone.com

Versetta Stone®
590 Ecology Ln
Chester, SC 29706-4722

Versetta Stone®
8300 County Rd 189
Holmesville, OH 44633

Versetta Stone®
Camino Martin 2500
Ranchos Dos Palmas
Baja California, Mexico 22650

Versetta Stone®
18012 Dover Rd
Mount Eaton, OH 44659

Versetta Stone®
181 Antrim Commons Dr
Greencastle, PA 17225-1621

CSI Designations:

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION

Section: 07 44 53 - Glass-Fiber-Reinforced Cementitious Panels

Section: 07 44 63 - Fabricated Faced Panel Assemblies

1 Innovative Product Evaluated¹

1.1 Versetta Stone Panelized Stone Veneer

2 Product Description and Materials

2.1 The innovative product evaluated in this report is shown in **Figure 1**.



Figure 1. Versetta Stone Panelized Stone Veneer with Nailing Hem Across Top of Panel



- 2.2 Versetta Stone is a non-structural, fiber-reinforced, cement-based masonry wall cladding that is mechanically attached to concrete walls, masonry walls, steel-framed, or wood-framed buildings.
 - 2.2.1 This report covers the application of Versetta Stone over insulation on steel-framed or wood-framed buildings.
 - 2.2.1.1 For application of Versetta Stone on post-framed buildings, see Report Number [1703-08](#).
 - 2.2.1.2 For application of Versetta Stone over insulation on concrete or masonry walls, see Report Number [1312-03](#).
- 2.3 The panels have a simulated stone veneer surface.
- 2.4 The panels measure 36.4" long, 9.5" tall, and 1.8" thick and have tongue-and-groove edges that engage adjacent panels.
 - 2.4.1 The finished exposure of the panels is 8" x 36".
- 2.5 A 0.0217" thick painted G90 galvanized steel nailing flange is molded along the top edge of the panels for attachment to the framing and/or nail base (see **Figure 1**).
- 2.6 The bottom edge and the ends of the panels fit together using tongue-and-groove technology.
- 2.7 The panels have an installed weight of approximately 8.5-psf (17 lbs per panel).
- 2.8 Additionally, the stone veneer panels are supplemented with various accessories to aid with installation.
- 2.9 As needed, review material properties for design in **Section 6** and the regulatory evaluation in **Section 8**.

3 Definitions²

- 3.1 New Materials³ are defined as building materials, equipment, appliances, systems, or methods of construction, not provided for by prescriptive and/or legislatively adopted regulations, known as alternative materials.⁴ The design strength and permissible stresses shall be established by tests⁵ and/or engineering analysis.⁶
- 3.2 Duly authenticated reports⁷ and research reports⁸ are test reports and related engineering evaluations that are written by an approved agency⁹ and/or an approved source.¹⁰
 - 3.2.1 These reports utilize intellectual property and/or trade secrets to create public domain material properties for commercial end-use.
 - 3.2.1.1 This report protects confidential Intellectual Property and trade secrets under the regulation, [18.U.S.Code.90](#), also known as [Defend Trade Secrets Act of 2016](#) (DTSA).¹¹
- 3.3 An approved agency is "approved" when it is [ANAB ISO/IEC 17065 accredited](#). DrJ Engineering, LLC (DrJ) is accredited and listed in the [ANAB directory](#).
- 3.4 An approved source is "approved" when a professional engineer (i.e., [Registered Design Professional](#), hereinafter RDP) is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.¹²
- 3.5 Testing and/or inspections conducted for this duly authenticated report were performed by an [ISO/IEC 17025 accredited testing laboratory](#), an [ISO/IEC 17020 accredited inspection body](#), and/or a licensed RDP.
 - 3.5.1 The [Center for Building Innovation](#) (CBI) is [ANAB](#)¹³ [ISO/IEC 17025](#) and [ISO/IEC 17020](#) accredited.
- 3.6 The regulatory authority shall enforce¹⁴ the specific provisions of each legislatively adopted regulation. If there is a non-conformance, the specific regulatory section and language of the non-conformance shall be provided in writing¹⁵ stating the nonconformance and the path to its cure.
- 3.7 The regulatory authority shall accept duly authenticated reports from an approved agency and/or an approved source with respect to the quality and manner of use of new materials or assemblies as provided for in regulations regarding the use of alternative materials, designs, or methods of construction.¹⁶



- 3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory. Therefore, recognition of certificates and validation statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope shall be approved.¹⁷ Thus, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent,¹⁸ and can be used in any country that is an MLA signatory found at this link: <https://iaf.nu/en/recognised-abs/>
- 3.9 Approval equity is a fundamental commercial and legal principle.¹⁹

4 Applicable Local, State, and Federal Approvals; Standards; Regulations²⁰

4.1 Local, State, and Federal

- 4.1.1 Approved in all local jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured local jurisdictions: Austin, Baltimore, Broward County, Chicago, Clark County, Dade County, Dallas, Detroit, Denver, DuPage County, Fort Worth, Houston, Kansas City, King County, Knoxville, Las Vegas, Los Angeles City, Los Angeles County, Miami, Nashville, New York City, Omaha, Philadelphia, Phoenix, Portland, San Antonio, San Diego, San Jose, San Francisco, Seattle, Sioux Falls, South Holland, St. Louis County, Texas Department of Insurance, and Wichita.²¹
- 4.1.2 Approved in all state jurisdictions pursuant to ISO/IEC 17065 duly authenticated report use, which includes, but is not limited to, the following featured states: California, Florida, New Jersey, Oregon, New York, Texas, Washington, and Wisconsin.²²
- 4.1.3 Approved by the Code of Federal Regulations Manufactured Home Construction: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14²³ and Part 3280²⁴ pursuant to the use of ISO/IEC 17065 duly authenticated reports.
- 4.1.4 Approved means complying with the requirements of local, state, or federal legislation.

4.2 Regulations

- 4.2.1 *IBC – 18, 21, 24: International Building Code®*
- 4.2.2 *IRC – 18, 21, 24: International Residential Code®*

4.3 Standards

- 4.3.1 *ASTM C1186: Standard Specification for Flat Fiber-Cement Sheets*
- 4.3.2 *ASTM D3679: Standard Specification for Rigid Poly (Vinyl Chloride) (PVC) Siding*
- 4.3.3 *ASTM D5206: Standard Test Method for Windload Resistance of Rigid Plastic Siding*
- 4.3.4 *ASTM E2273: Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies*

5 Listed²⁵

- 5.1 Equipment, materials, products, or services included in a List published by a nationally recognized testing laboratory (e.g., CBI), an approved agency (e.g., CBI and DrJ), and/or and approved source (e.g., DrJ), or other organization(s) concerned with product evaluation (e.g., DrJ), that maintains periodic inspection (e.g., CBI) of production of listed equipment or materials, and whose listing states either that the equipment or material meets nationally recognized standards or has been tested and found suitable for use in a specified manner.



6 Tabulated Properties Generated from Nationally Recognized Standards

- 6.1 Versetta Stone is used as an exterior wall covering in accordance with the applicable sections of IBC Chapter 14 and IRC Section R703. Versetta Stone is installed over wood-framed walls and Wood Structural Panel (WSP) capable of supporting the imposed loads in accordance with IBC Section 1609 and IRC Section R301.2.1, including all required transverse wind loads.
- 6.2 Versetta Stone is also used as an exterior wall covering installed over wood-framed or steel-framed walls where the WSP are over-sheathed with continuous insulation. Connections for this installation are as shown in **Table 1**.
- 6.3 Unless designed as provided in **Section 9.4** or **Section 9.5**, Versetta Stone shall not be installed in areas where the design wind pressure exceeds the capacity of the cladding and its attachment to resist the load in accordance with **Table 2** for wood-framed walls and **Table 3** for steel-framed walls.
- 6.4 See **Table 4** for wind pressures associated with V_{ult} per ASCE 7.
 - 6.4.1 Design in accordance with generally accepted engineering practice may be used as an alternative to **Section 6.3**.
- 6.5 **Table 4** provides an aid for designers in determining the allowable wind pressures for Versetta Stone panel installation.
 - 6.5.1 For example, given the following:
 - 6.5.1.1 Wind Speed, $V_{ult} = 180$ mph
 - 6.5.1.2 Exposure D
 - 6.5.1.3 Wood Framing
 - 6.5.2 From **Table 2**, the maximum mean roof height allowed for this condition is 20'.
 - 6.5.3 This application assumes at least two (2) fasteners into the studs and two (2) additional fasteners into the WSP sheathing.
 - 6.5.4 The corresponding wind pressure from **Table 4** shows that this installation corresponds to an allowable wind pressure of 121.2-psf.
- 6.6 For additional information or use in other applications, consult the manufacturer installation instructions.



Table 1. Fastener Requirements to Support Versetta Stone Installation Over Continuous Insulation, Sheathing and Wood or Steel Framing^{1,2,3,4,5,6}

Fastener Type	Fastener Diameter (in)	Fastener Length (in)	Fasteners Required								
			Thickness of Continuous Insulation (in)								
			0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
Nails	0.120	2.5	x	x	x						
	0.131	2.5	x	x	x	n					
	0.148	3.0	x	x	x	x	n				
	0.162	3.5	x	x	x	x	x	n			
	0.192	4.0	x	x	x	x	x	x	n	n	n
Screws	#8 (0.164)	2.0	x	x	x	n	n	n			
	#10 (0.190)	2.5	x	x	x	x	n	n	n	n	n
	#12 (0.216)	3.0	x	x	x	x	x	n	n	n	n
	#14 (0.242)	4.0	x	x	x	x	x	x	x	n	n

SI: 1 in = 25.4 mm

1. Fastener lengths are the maximum length commonly available for a given diameter. Longer fasteners may be available from proprietary sources. (See Table 1 Footnote 4, below.)
2. Table values are based on the NDS allowable lateral loads for fasteners as modified by AWC TR12 for use with a gap parameter for gravity load only (i.e., fasteners sized to support weight of cladding, while cantilevered from framing a distance equal to the foam sheathing thickness).
3. Each panel shall contain a minimum of four (4) fasteners. Two (2) of the fasteners must be installed into the stud and penetrate a minimum of 1" for wood studs or three (3) threads beyond the backside of steel studs. The other two (2) fasteners are permitted to be fastened through the WSP and must protrude out of the backside of the WSP a minimum of 1/2". Where nail-base sheathing is not used or studs are greater than 16" o.c. and not greater than 24" o.c., Versetta Bridging must be used to transfer the loads back to the studs.
4. "n" = non-standard or proprietary fasteners may be available with the additional length required to meet the penetration requirements.
5. Where a substrate other than nail-base sheathing is used, its thickness shall be added to the continuous insulation thickness for the purpose of determining the fastener size.
6. Table assumes 1/2" sheathing applied to framing. For other sheathings thicknesses, evaluate fasteners accordingly for minimum penetration into framing.



Table 2. Wind Pressure Capacity of Versetta Stone Installation in Wood Framing Over Continuous Insulation and WSP Sheathing

Exposure Category	Wind Speed ^{1,2} (V _{ult} /V _{asd})	Permitted Attachment Method Per Wind Speed ^{3,4,5,6}					
		Mean Roof Height					
		15	20	25	30	35	40
B	≤ 180/139	WSP	WSP	WSP	WSP	WSP	WSP
	200/155	WSP	WSP	WSP	ST	ST	ST
C	≤ 160/124	WSP	WSP	WSP	WSP	WSP	WSP
	180/139	ST	ST	ST	ST	ST	ST
	200/155	ST	NP ⁶	NP	NP	NP	NP
D	≤ 140/108	WSP	WSP	WSP	WSP	WSP	WSP
	150/116	WSP	WSP	WSP	WSP	WSP	ST
	160/124	ST	ST	ST	ST	ST	ST
	180/139	ST	ST	NP	NP	NP	NP

SI: 1 in = 25.4 mm, 1 mph = 1.61 km/h

- The maximum allowed wind speed condition for the fastening method shown. Design wind pressure was determined in accordance with ASCE 7-22 as specified in IBC Section 1609.1.1 and is based on the following assumptions (See Table 4 for the calculated design wind pressures):
 - GC_p = -1.4 for Zone 5 and an Effective Wind Area of 10 ft²
 - Topographic Factor: K_{zt} = 1.0 and Ground Elevation Factor: K_e = 1.0
 - Internal Pressure Coefficient, GC_{pi} = +/- 0.18 for an enclosed building
 - K_d = 0.85 for "Component and Cladding"
- Maximum allowable wind pressure per configuration is based on the methodology found in Annex A1 of ASTM D3679. PEF was assumed to be 1.0.
 - ST = 122-psf
 - WSP = 93-psf
- Assumes a minimum 1/4" diameter self-tapping, pan head screw with 2" of penetration into the wood framing (i.e., 1/2" WSP sheathing plus 1 1/2" into wood studs) and a minimum of 1/2" of screw protruding out of the backside of the WSP.
- ST = Each full Versetta Stone panel shall contain two (2) fasteners installed into studs and at least two (2) fasteners into WSP. Each partial panel shall contain (1) fastener into stud and (1) fastener into WSP.
- WSP = Each full Versetta Stone panel shall contain three (3) fasteners installed into WSP. Each partial panel shall contain (2) fasteners into WSP.
- NP = Not Permitted



Table 3. Wind Pressure Capacity of Versetta Stone Installation in Steel Framing Over Exterior Gypsum Sheathing (DensGlass or Equal)

Exposure Category	Wind Speed ^{1,2} (V _{ult} /V _{asd})	Permitted Attachment Method Per Wind Speed ^{3,4,5,6}					
		Mean Roof Height					
		15	20	25	30	35	40
B	≤ 110/85	ST	ST	ST	ST	ST	STVB
	115/89	ST	ST	ST	ST	ST	STVB
	120/93	ST	ST	ST	ST	ST	STVB
	130/101	ST	ST	ST	ST	STVB	STVB
	140/108	STVB	STVB	STVB	STVB	STVB	STVB
	150/116	STVB	STVB	STVB	STVB	STVB	STVB
	160/124	STVB	STVB	STVB	STVB	NP ⁶	NP
C	≤ 110/85	ST	ST	ST	ST	STVB	STVB
	115/89	ST	ST	STVB	STVB	STVB	STVB
	120/93	STVB	STVB	STVB	STVB	STVB	STVB
	130/101	STVB	STVB	STVB	STVB	STVB	STVB
	140/108	STVB	STVB	NP	NP	NP	NP
D	≤ 120/93	STVB	STVB	STVB	STVB	STVB	STVB
	130/101	STVB	STVB	NP	NP	NP	NP

SI: 1 in = 25.4 mm, 1 mph = 1.61 km/h

- The maximum allowed wind speed condition for the fastening method shown. Design wind pressure were determined in accordance with ASCE 7-22 as specified in [IBC Section 1609.1.1](#) and are based on the following assumptions (See [Table 4](#) for the calculated design wind pressures):
 - GC_p = -1.4 for Zone 5 and an Effective Wind Area of 10 ft²
 - Topographic Factor: K_{zt}=1.0 and Ground Elevation Factor: K_e=1.0
 - Internal Pressure Coefficient, GC_{pi}=+/-0.18 for an enclosed building
 - K_d = 0.85 for "Component and Cladding"
- Maximum allowable wind pressure per configuration is based on the methodology found in Annex A1 of ASTM D3679. PEF was assumed to be 1.0.
 - ST = 42-psf
 - STVB = 73-psf
- Assumes a minimum #8 x 1 1/4" ceramic-coated self-tapping pan head screw into studs. Where Versetta Bridging is used, the additional fasteners are #8 x 3/4" truss head screw.
- ST = Each full Versetta Stone panel shall contain two (2) fasteners installed into the studs (ST). Each partial panel shall contain (1) fastener into stud.
- STVB = Each full Versetta Stone panel contains two (2) fasteners installed into studs and at least two (2) fasteners into Versetta Bridging. Each partial panel shall contain (1) fastener into stud. At least two (2) fasteners shall be installed to attach Versetta Bridging (STVB) to studs.
- NP = Not Permitted.



Table 4. General Wind Pressure Resistance Criteria per ASCE 7-22 for Components and Cladding

Exposure Category	Wind Speed ^{1,2} (mph) (V_{ult}/V_{asd})	Permitted Attachment Method Per Wind Speed ^{3,4,5,6}					
		Mean Roof Height					
		15	20	25	30	35	40
B	110	23.8	25.7	27.3	28.7	29.9	31.0
	115	26.0	28.1	29.9	31.3	32.7	33.8
	120	28.4	30.6	32.5	34.1	35.6	36.8
	130	33.3	35.9	38.1	40.0	41.7	43.2
	140	38.6	41.7	44.2	46.4	48.4	50.1
	150	44.3	47.9	50.8	53.3	55.6	57.6
	160	50.4	54.4	57.8	60.7	63.2	65.5
	180	63.8	68.9	73.1	76.8	80.0	82.9
	200	78.8	85.1	90.3	94.8	98.8	102.3
C	110	35.4	37.5	39.3	40.8	42.1	43.3
	115	38.7	41.0	43.0	44.6	46.0	47.3
	120	42.1	44.7	46.8	48.5	50.1	51.5
	130	49.5	52.4	54.9	57.0	58.8	60.4
	140	57.4	60.8	63.7	66.1	68.2	70.1
	150	65.8	69.8	73.1	75.8	78.3	80.4
	160	74.9	79.4	83.1	86.3	89.1	91.5
	180	94.8	100.5	105.2	109.2	112.7	115.8
	200	117.1	124.1	129.9	134.8	139.1	143.0
D	110	43.1	45.3	47.1	48.6	49.9	51.1
	115	47.1	49.5	51.4	53.1	54.5	55.8
	120	51.2	53.9	56.0	57.8	59.4	60.8
	130	60.1	63.2	65.7	67.8	69.7	71.3
	140	69.7	73.3	76.2	78.7	80.8	82.7
	150	80.1	84.2	87.5	90.3	92.8	95.0
	160	91.1	95.8	99.6	102.8	105.6	108.0
	180	115.3	121.2	126.0	130.1	133.6	136.7
	200	142.3	149.6	155.6	160.6	164.9	168.8

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m², 1 mph = 1.61 km/h

- 6.7 Alternative techniques shall be permitted in accordance with accepted engineering practice and experience. These provisions for the use of alternative materials, designs, and methods of construction are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed herein. This includes, but is not limited to, the following areas of engineering: mechanics of materials, structures, building science, and fire science.



7 Certified Performance²⁶

- 7.1 All construction methods shall conform to accepted engineering practices to ensure durable, livable, and safe construction and shall demonstrate acceptable workmanship reflecting journeyman quality of work of the various trades.²⁷
- 7.2 The strength and rigidity of the component parts and/or the integrated structure shall be determined by engineering analysis or by suitable load tests to simulate the actual loads and conditions of application that occur.²⁸

8 Regulatory Evaluation and Accepted Engineering Practice

- 8.1 Versetta Stone Panelized Stone Veneer complies with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:
 - 8.1.1 Versetta Stone was evaluated for use as an exterior wall covering in accordance with IBC Section 1402 and IRC Section R703.
 - 8.1.1.1 Specifically, Versetta Stone was evaluated for use as a weather-resistant covering in accordance with IBC Section 1403.2, IBC Section 1402.2, and IRC Section R703.1.1.
 - 8.1.1.2 Versetta Stone was evaluated to determine its ability to resist wind loads in accordance with IBC Section 1609 and IRC Section R703.1.2.
 - 8.1.1.3 Versetta Stone was evaluated for installation over wood framing and WSP sheathing with the addition of continuous insulation installed between the WSP and Versetta Stone panels.
 - 8.1.1.4 Use in applications requiring a fire-resistance rating are outside the scope of this evaluation.
 - 8.2 Any building code, regulation and/or accepted engineering evaluations (i.e., research reports, duly authenticated reports, etc.) that are conducted for this Listing were performed by DrJ, which is an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP or approved sources. DrJ is qualified²⁹ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,³⁰ respectively.
 - 8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which is also its areas of professional engineering competence.

9 Installation

- 9.1 Installation shall comply with the approved construction documents, the manufacturer installation instructions, this report, and the applicable building code.
- 9.2 In the event of a conflict between the manufacturer installation instructions and this report, contact the manufacturer for counsel on the proper installation method.
- 9.3 *General*
 - 9.3.1 Versetta Stone shall be installed in accordance with the manufacturer published installation instructions and this report. In the event of a conflict between the manufacturer installation instructions and this report, the more restrictive shall govern.
 - 9.3.2 Installation is subject to the conditions of use set forth in **Section 12**.
 - 9.3.3 A Water-Resistive Barrier (WRB) is required behind Versetta Stone in accordance with IBC Section 1403.2 and IRC Section R703.2.
 - 9.3.3.1 Alternative WRB materials shall meet the performance requirements of IBC Section 1402.2.
 - 9.3.3.1.1 The WRB may be comprised of a liquid-applied, sheet material, or continuous insulation product evaluated for use as a WRB with all joints taped per the manufacturer installation instructions.



- 9.3.4 All Versetta Stone vertical joints shall be staggered between courses.
- 9.3.5 All other installation and flashing details relevant to the project shall be in accordance with the applicable building code and the manufacturer installation instructions.

9.4 Wood-Framed Walls

- 9.4.1 Versetta Stone shall be installed over structural sheathing (nailing base) capable of resisting 100% of the design wind loads and shall be attached, at a minimum, in accordance with **Table 1**.
- 9.4.2 Versetta Stone may be installed with an intervening layer(s) of continuous insulation and attached in accordance with **Table 1**.
- 9.4.3 Each Versetta Stone panel shall be installed with a minimum of four (4) fasteners as follows:
 - 9.4.3.1 Two (2) of the fasteners must be installed into the wood stud framing and penetrate a minimum of 1" into the framing.
 - 9.4.3.2 The other two (2) fasteners must be installed into the nail base and must protrude out the backside of the nail base a minimum of 1/2".
- 9.4.4 Fastener sizes shall be in accordance with **Table 1** or with generally accepted engineering practice.

9.5 Steel-Framed Walls

- 9.5.1 Versetta Stone shall be installed over sheathing capable of resisting 100% of the design wind loads and shall be attached, at a minimum, with screws in accordance with **Table 1**.
- 9.5.2 Versetta Stone may be installed over an intervening layer(s) of continuous insulation and attached in accordance with **Table 1**.
- 9.5.3 Each Versetta Stone panel shall be installed as follows:
 - 9.5.3.1 Two (2) fasteners must be installed into the steel stud framing and penetrate a minimum of three (3) threads into the framing (i.e., one fastener into each stud covered by the Versetta Stone panel).
 - 9.5.3.2 Two (2) fasteners must be installed into the nail base and must protrude out the backside of the nail base a minimum of 1/2". Where nail-base sheathing is not used, Versetta Bridging shall be used to transfer loads to studs.

10 Substantiating Data

- 10.1 Testing has been performed under the supervision of a professional engineer and/or under the requirements of ISO/IEC 17025 as follows:
 - 10.1.1 Physical and mechanical property compliance in accordance with ASTM C1186
 - 10.1.2 Nail hem bond strength testing in accordance with ASTM C1185
 - 10.1.3 Water drainage testing in accordance with ASTM E2273
 - 10.1.4 Pressure equalization testing in accordance with ASTM D3679, Annex A1
 - 10.1.5 Transverse wind load testing in accordance with ASTM D5206, Procedure B
- 10.2 Reports showing compliance with required quality control procedures and documentation.
- 10.3 Fastening Systems for Continuous Insulation, Final Report 10-11; New York State Energy Research and Development Authority (NYSERDA); Albany, NY; April 2010.
- 10.4 Baker, P. and Lepage, R.; Cladding Attachment Over Thick Exterior Insulating Sheathing; Prepared by the Building Science Corporation for the National Renewable Energy Laboratory on behalf of the U.S. Department of Energy's Building America Program; January 2014.
- 10.5 Baker, P.; Initial and Long-Term Movement of Cladding Installed Over Exterior Rigid Insulation; Prepared by the Building Science Corporation for the National Renewable Energy Laboratory on behalf of the U.S. Department of Energy's Building America Program; September, 2014.



- 10.6 Information contained herein may include the result of testing and/or data analysis by sources that are approved agencies, approved sources, and/or an RDP. Accuracy of external test data and resulting analysis is relied upon.
- 10.7 Where applicable, testing and/or engineering analysis are based upon provisions that have been codified into law through state or local adoption of regulations and standards. The developers of these regulations and standards are responsible for the reliability of published content. DrJ's engineering practice may use a regulation-adopted provision as the control. A regulation-endorsed control versus a simulation of the conditions of application to occur establishes a new material as being equivalent to the regulatory provision in terms of quality, strength, effectiveness, fire resistance, durability, and safety.
- 10.8 The accuracy of the provisions provided herein may be reliant upon the published properties of raw materials, which are defined by the grade mark, grade stamp, mill certificate, or duly authenticated reports from approved agencies and/or approved sources provided by the supplier. These are presumed to be minimum properties and relied upon to be accurate. The reliability of DrJ's engineering practice, as contained in this duly authenticated report, may be dependent upon published design properties by others.
- 10.9 *Testing and Engineering Analysis*
- 10.9.1 The strength, rigidity, and/or general performance of component parts and/or the integrated structure are determined by suitable tests that simulate the actual conditions of application that occur and/or by accepted engineering practice and experience.³¹
- 10.10 Where additional condition of use and/or regulatory compliance information is required, please search for Versetta Stone on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, Versetta Stone has performance characteristics that were tested and/or meet applicable regulations. In addition, they are suitable for use pursuant to its specified purpose.
- 11.2 When used and installed in accordance with this duly authenticated report and the manufacturer installation instructions, Versetta Stone shall be approved for the following applications:
- 11.2.1 Versetta Stone is suitable for use as an exterior wall covering assembly when installed over sheathing separately capable of resisting 100% of the design wind pressures. An intervening layer(s) of continuous insulation may be installed between Versetta Stone and the sheathing in accordance with **Table 1**, **Table 2**, and **Table 3**.
- 11.3 Versetta Stone is equivalent to the products listed in the applicable building code for use as an exterior wall covering in accordance with IBC Section 1403.9³² and IRC Section R703.10.
- 11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Westlake Royal Stone, LLC.
- 11.5 IBC Section 104.2.3³³ (IRC Section R104.2.2³⁴ and IFC Section 104.2.3³⁵ are similar) in pertinent part state:

104.2.3 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, provided that any such alternative is not specifically prohibited by this code and has been approved.



- 11.6 **Approved:**³⁶ Building regulations require that the building official shall accept duly authenticated reports.³⁷
- 11.6.1 An approved agency is “approved” when it is ANAB ISO/IEC 17065 accredited.
- 11.6.2 An approved source is “approved” when an RDP is properly licensed to transact engineering commerce.
- 11.6.3 Federal law, Title 18 US Code Section 242, requires that, where the alternative product, material, service, design, assembly, and/or method of construction is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved. Denial without written reason deprives a protected right to free and fair competition in the marketplace.
- 11.7 DrJ is a licensed engineering company, employs licensed RDPs and is an ANAB Accredited Product Certification Body – Accreditation #1131.
- 11.8 Through the IAF Multilateral Arrangement (MLA), this duly authenticated report can be used to obtain product approval in any jurisdiction or country because all ANAB ISO/IEC 17065 duly authenticated reports are equivalent.³⁸

12 Conditions of Use

- 12.1 As defined in **Section 6**, where material and/or engineering mechanics properties are created for load resisting design purposes, the resistance to the applied load shall not exceed the ability of the defined properties to resist those loads using the principles of accepted engineering practice.
- 12.2 As listed herein, Versetta Stone shall be subject to the following conditions:
- 12.2.1 Installation shall be on exterior walls consisting of wood or steel framing and sheathing capable of supporting the imposed loads, including transverse wind loads.
- 12.2.2 A WRB is required over the sheathing and may consist of a liquid-applied, sheet good material, or continuous insulation.
- 12.2.3 Where the seismic provisions of IRC Section R301.2.2 apply, the Versetta Stone wall assembly shall not exceed the weight limits of IRC Section R301.2.2.2, unless an engineered design is provided in accordance with IRC Section R301.1.3.
- 12.2.4 Walls shall be braced to resist shear (racking) load by other means in accordance with the applicable code.
- 12.2.5 This product shall not be used in areas where the design wind pressure exceeds the resistance of the product in accordance with **Table 2** or **Table 3**.
- 12.3 Wall framing shall be limited to a maximum out of plane deflection of H/240 per IBC Table 1604.3 and IRC Table R301.7.
- 12.4 Where Versetta Bridging is used, wall framing shall be limited to a maximum stud spacing of 24" o.c.
- 12.5 Where Versetta Bridging is not used, wall framing shall be limited to a maximum stud spacing of 16" o.c.
- 12.6 Fasteners used to secure Versetta Stone panels shall be corrosion-resistant as specified in IBC Section 1404.17, IBC Section 2304.10.6, where applicable, and IRC Section R703.3.3.
- 12.7 Use of Versetta Stone panels in installations exceeding 30' in height are outside the scope of this report.
- 12.8 Use of Versetta Stone panels in the High Velocity Hurricane Zone (HVHZ) of southern Florida is outside the scope of this report.
- 12.9 When required by adopted legislation and enforced by the building official, also known as the Authority Having Jurisdiction (AHJ) in which the project is to be constructed:
- 12.9.1 Any calculations incorporated into the construction documents shall conform to accepted engineering practice and, when prepared by an approved source, shall be approved when signed and sealed.
- 12.9.2 This report and the installation instructions shall be submitted at the time of permit application.



- 12.9.3 This innovative product has an internal quality control program and a third-party quality assurance program.
- 12.9.4 At a minimum, this innovative product shall be installed per **Section 9**.
- 12.9.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.
- 12.9.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.7.2, IBC Section 110.4, IBC Section 1703, IRC Section R104.7.2, and IRC Section R109.2.
- 12.9.7 The application of this innovative product in the context of this report is dependent upon the accuracy of the construction documents, implementation of installation instructions, inspection as required by IBC Section 110.3, IRC Section R109.2, and any other regulatory requirements that may apply.
- 12.10 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, *"the building official shall make, or cause to be made, the necessary tests and investigations; or the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new materials or assemblies as provided for in Section 104.2.3",* all of IBC Section 104, and IBC Section 105.3.
- 12.11 Design loads shall be determined in accordance with the regulations adopted by the jurisdiction in which the project is to be constructed and/or by the building designer (i.e., owner or RDP).
- 12.12 The actual design, suitability, and use of this report for any particular building, is the responsibility of the owner or the authorized agent of the owner.

13 Identification

- 13.1 Versetta Stone Panelized Stone Veneer, as listed in **Section 1.1**, is identified by a label on the board or packaging material bearing the manufacturer name, product name, this report number, and other information to confirm code compliance.
- 13.2 Additional technical information can be found at www.westlakeroyalbuildingproducts.com.

14 Review Schedule

- 14.1 This report is subject to periodic review and revision. For the latest version, visit www.drjcertification.org.
- 14.2 For information on the status of this report, please contact [DrJ Certification](#).



Notes

- 1 For more information, visit drjcertification.org or call us at 608-310-6748.
- 2 Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of [TPI 1](#), the [NDS](#), [AISI S202](#), [US professional engineering law](#), [Canadian building code](#), [Canada professional engineering law](#), [Qualtim External Appendix A: Definitions/Commentary](#), [Qualtim External Appendix B: Project/Deliverables](#), [Qualtim External Appendix C: Intellectual Property and Trade Secrets](#), definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.
- 3 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702>
- 4 Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review <https://www.justice.gov/atr/mission> and <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3>
- 5 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2>~:~text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests
- 6 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1>~:~text=Conformance%20to%20Standards-.The%20design%20strengths%20and%20permissible%20stresses,-of%20any%20structural
- 7 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>~:~text=the%20building%20official%20shall%20make%20a%20cause%20to%20be%20made%20C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.
- 8 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2>
- 9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency
- 10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source
- 11 <https://www.law.cornell.edu/uscode/text/18/1832> (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of \$5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a [public records act](#). To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: [Intellectual Property and Trade Secrets](#).
- 12 <https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional> AND <https://apassociation.org/list-of-engineering-boards-in-each-state-archive/>
- 13 <https://www.cbiteest.com/accreditation/>
- 14 <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.1>~:~text=directed%20to%20enforce%20the%20provisions%20of%20this%20code
- 15 <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#105.3.1>
- 16 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- 17 <https://iaf.nu/en/about-iaf-mia/#>~:~text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope
- 18 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.
- 19 <https://www.justice.gov/crt/deprivation-rights-under-color-law> AND <https://www.justice.gov/atr/mission>
- 20 Unless otherwise noted, the links referenced herein use un-amended versions of the 2024 International Code Council (ICC) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the [IBC 2024](#) and the [IRC 2024](#) are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.
- 21 See [Adoptions by Publisher](#) for the latest adoption of a non-amended or amended model code by the local jurisdiction. <https://up.codes/codes/general>
- 22 See [Adoptions by Publisher](#) for the latest adoption of a non-amended or amended model code by state. <https://up.codes/codes/general>
- 23 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14>
- 24 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>
- 25 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2> (Listed%20or%20certified); <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#listed> AND <https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#labeled>
- 26 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4>
- 27 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#>~:~text=All%20construction%20methods%20shall%20be%20in%20conformance%20with%20accepted%20engineering%20practices%20to%20insure%20durable%2C%20livable%2C%20and%20safe%20housing%20and%20shall%20demonstrate%20acceptable%20workmanship%20reflecting%20journeyman%20quality%20of%20work%20of%20the%20various%20trades
- 28 <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#>~:~text=The%20strength%20and%20rigidity%20of%20the%20component%20parts%20and/or%20the%20integrated%20structure%20shall%20be%20determined%20by%20engineering%20analysis%20or%20by%20suitable%20load%20tests%20to%20simulate%20the%20actual%20loads%20and%20conditions%20of%20application%20that%20occur



- 29 Qualification is performed by a legislatively defined Accreditation Body. ANSI National Accreditation Board (ANAB) is the largest independent accreditation body in North America and provides services in more than 75 countries. DrJ is an ANAB accredited product certification body.
- 30 <https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH>
- 31 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition: <https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280>
- 32 [2021 IBC Section 1403.10](#)
- 33 [2021 IBC Section 104.11](#)
- 34 [2021 IRC Section R104.11](#)
- 35 2018: <https://up.codes/viewer/wyoming/ifc-2018/chapter/1/scope-and-administration#104.9> AND 2021: <https://up.codes/viewer/wyoming/ibc-2021/chapter/1/scope-and-administration#104.11>
- 36 Approved is an adjective that modifies the noun after it. For example, Approved Agency means that the Agency is accepted officially as being suitable in a particular situation. This example conforms to IBC/IRC/IFC Section 201.4 (<https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#201.4>) where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.
- 37 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>
- 38 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.