

Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2309-01



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Blueskin™ VP Tech Weather-Resistive Thermal Insulation Sheathing

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CSI Designations:

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION

Section: 07 20 00 - Thermal Protection

Section: 07 21 00 - Thermal Insulation

Section: 07 25 00 - Water-Resistive Barriers/Weather Barriers

Section: 07 26 00 - Vapor Retarders

1 Innovative Product Evaluated¹

1.1 Blueskin VP Tech Weather-Resistive Thermal Insulation Sheathing

2 Product Description and Materials

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

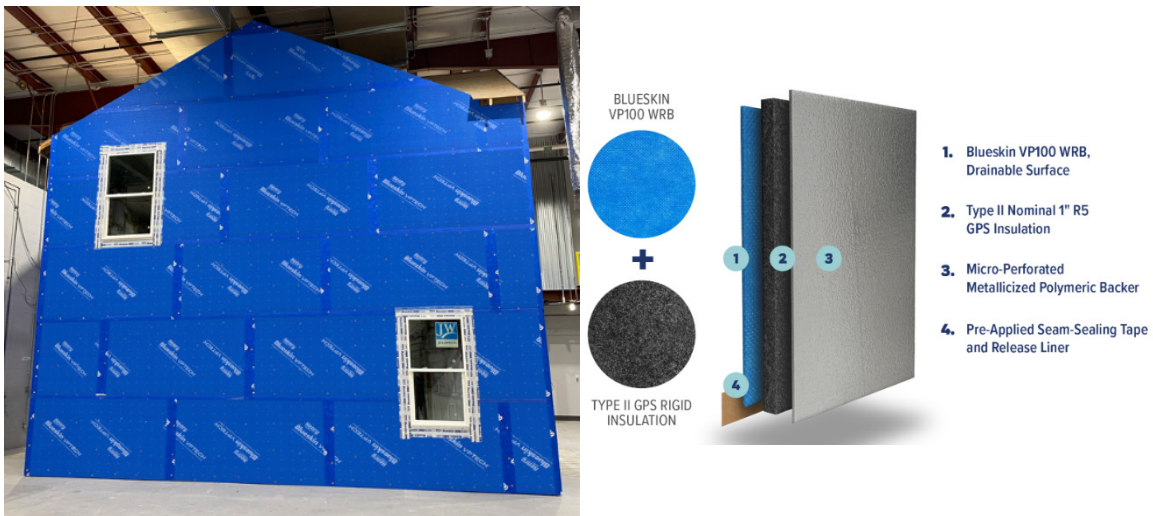


Figure 1. Blueskin VP Tech



Table 1. Blueskin VP Tech Product Information

Product	Description	Front Facer	Back Facer	Nominal Dimensions
Blueskin VP Tech	Non-structural Foam Plastic Insulating Sheathing (FPIS) comprising of an ASTM C578 Type II compliant graphite expanded polystyrene (GPS) core with a polymeric and perforated polymeric facer	Factory laminated Blueskin composite membrane consisting of Styrene Butadiene-Styrene (SBS) laminated to high-density Polyethylene film	Perforated metalized polymeric facer	Thickness: 1/2" - 2 1/2" Length: 8' Width: 4'

SI: 1 in = 25.4 mm

2.2 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 This report utilizes 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.US.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 ANAB¹³ 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®*
- 4.2.3 *IECC – 18, 21, 24: International Energy Conservation Code®*

4.3 Standards

- 4.3.1 *ABTG FS 100: Standard Requirements for Wind Pressure Resistance of Foam Plastic Insulating Sheathing Used in Exterior Wall Covering Assemblies*
- 4.3.2 *ASTM C518: Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus*
- 4.3.3 *ASTM C578: Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation*
- 4.3.4 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*
- 4.3.5 *ASTM E96: Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials*
- 4.3.6 *ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference*
- 4.3.7 *ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*
- 4.3.8 *ASTM E2178: Standard Test Method for Determining Air Leakage Rate and Calculation of Air Permeance of Building Materials*
- 4.3.9 *UL 723 Test for Surface Burning Characteristics of Building Materials*



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 an 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 General

6.1.1 Blueskin VP Tech panels are used in light frame residential structures and buildings of Type V construction in accordance with IBC Section 2603 and IRC Section R303.²⁶

6.1.2 Transverse Wind Loads:

6.1.2.1 Blueskin VP Tech panels are permitted to resist transverse wind load forces using the allowable transverse loads (in pounds per square foot) set forth in **Table 2** and the wind speeds presented in **Table 3**.

6.1.2.2 Blueskin VP Tech having a thickness of 1/2" is used for over-sheathing applications only.

Table 2. Transverse (Out-of-Plane) Wind Load Resistance^{1,2,3} – Installed on Open Framing

Product	Maximum Stud Spacing (in)	Fastener Schedule ²	Fastener Spacing (edge:field) (in)	Allowable Design Wind Pressure (psf)
1" Blueskin VP Tech	24 o.c.	2" x 0.09" Smooth Shank Nail with 1" Plastic Cap	6:12	19.2

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m²

- Design wind load shall be in accordance with IBC Section 1609.1.1.
- Fasteners to be installed parallel to length of framing members.
- Allowable load is valid for Blueskin VP Tech products with a minimum thickness of 1", and a maximum stud spacing of 24" o.c., as stated.

Table 3. Basic Wind Speed (mph) for Use in Exterior Wall Covering Assemblies^{1,2,3} – Installed on Open Framing

Product	Allowable Components and Cladding Basic Wind Speed (mph)	
	ASCE 7-05 (V_{asd})	ASCE 7-16 and 7-22 (V_{ult})
1" Blueskin VP Tech	90	115

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

- Allowable wind speeds are based on the following:
 - A building height of 30-feet, $GC_p = -1.4$ for Zone 5 and an Effective Wind Area of 10ft², Topographic Factor: $K_{zt} = 1.0$, 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.
 - See the applicable building code for any adjustment need for specific building location and configuration.
- Studs spaced 24" o.c.
- The listed wind speeds are valid for Blueskin VP Tech products with a minimum thickness of 1".

6.2 Thermal Resistance

6.2.1 Blueskin VP Tech FPIS panels may be used as thermal insulation in wall, roof, and ceiling assemblies.

6.2.2 These products meet the continuous insulating sheathing requirements complying with the provisions of IRC Section N1102, IECC Section C402, and IECC Section R402.

6.2.3 Thermal properties are presented in **Table 4**.



Table 4. Thermal Resistances of Blueskin VP Tech Foam Insulated Sheathing

Product	Nominal Thickness (in)	R-Value ¹ (°F·ft ² ·hr/Btu)
Blueskin VP Tech	2.50	11.5
	2.18	10.0
	2.00	9.2
	1.50	6.9
	1.25	5.8
	1.06	5.0
	1.00	4.6
	0.50	2.5

SI: 1 in = 25.4 mm
1. Thermal values are determined in accordance with ASTM C518.

6.3 Air Barrier Material

6.3.1 Blueskin VP Tech panels meet the requirements of IRC Section N1102.5.1.1²⁷ and IECC Section C402.6.2.3.1²⁸ for use as a component of an air barrier system when installed with the manufacturer installation instructions and this report.

6.3.1.1 When evaluated in accordance with ASTM E2178, Blueskin VP Tech panels meet the requirements as an air barrier material having an air permeance of less than 0.02 L/(s·m²) at 75 Pa in accordance with IECC Section C402.6.²⁹

6.3.2 When used as part of a continuous air barrier assembly, Blueskin VP Tech shall be installed in accordance with **Section 6.6**.

6.3.3 All sheathing panel edges at the top and bottom of wall assemblies, and all joints between sheathing panels, shall be sealed in accordance with IRC Section N1102.5.1.1,³⁰ IECC Section R402.5.1.1, and IECC Section C402.6.1.³¹

6.3.3.1 All joints between sheathing panels shall be covered by pre-applied overlay flaps or minimum 1 1/2" (38 mm) VP Tech Seam Tape.

6.3.4 All penetrations shall be flashed and sealed in accordance with the flashing manufacturer installation instructions.

6.3.4.1 Self-adhered flashing tape shall comply with AAMA 711.

6.4 Water-Resistive Barrier (WRB)

6.4.1 Blueskin VP Tech panels may be used as a WRB in accordance with IBC Section 1403.2 and IRC Section R703.2, when installed per **Section 9**, with either the pre-applied overlay flaps or VP Tech Seam Tape.

6.4.1.1 Flashing tape with release liner for effective taping of inside and outside corners is recommended. See the manufacturer product information for further details.

6.4.2 A separate WRB may also be provided. If a separate WRB method is used, taping of the sheathing joints is not required.

6.4.3 Penetrations:

6.4.3.1 Flashing of penetrations shall comply with the applicable code and must be installed at all sheathing penetrations.



6.5 Vapor Retarder

6.5.1 Blueskin VP Tech panels are Class III vapor retarders in accordance as shown in **Table 5**.

Table 5. Water Vapor Barrier Properties¹

Product	Water Vapor Transmission (perm)
Blueskin VP Tech	1.8
1. Tested in accordance with ASTM E96, Desiccant Method.	

6.6 Surface Burning Characteristics

6.6.1 Blueskin VP Tech has the flame spread and smoke developed characteristics shown in **Table 6**, when tested in accordance with ASTM E84 per IBC Section 2603.3.

Table 6. Surface Burning Characteristics¹

Component	Flame Spread Index	Smoke Developed Index	Classification
Blueskin VP Tech	≤ 25	≤ 450	A
EPS Core			
1. Tested in accordance with UL 723 (equivalent to ASTM E84).			

6.7 Thermal Barrier

6.7.1 Blueskin VP Tech panels shall be fully protected from the interior of the building by an approved thermal barrier or ignition barrier as required by IBC Section 2603.4 and IRC Section R303.4.³²

6.8 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 Performance³³

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.³⁴

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.³⁵

8 Regulatory Evaluation and Accepted Engineering Practice

8.1 Blueskin VP Tech complies with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:

8.1.1 Performance for use as continuous insulating sheathing in accordance with IRC Section N1102, IECC Section C402, and IECC Section R402.

8.1.2 Performance for use as an air barrier in accordance with IRC Section N1102.5.1.1,³⁶ IECC Section R402.5.1.1,³⁷ and IECC Section C402.6.2.3.1.³⁸

- 8.1.3 Performance for use as a WRB in accordance with the IBC Section 1403.2 and IRC Section R703.2.
- 8.1.4 Performance for use as a vapor retarder in accordance with IBC Section 202, IBC Section 1404.3, IRC Section R202, and IRC Section R702.7.
- 8.1.5 Performance for resistance to wind pressure in accordance with IBC Section 2603.10 and IRC Section R303.8.³⁹
- 8.1.6 Performance for flame spread and smoke developed indices in accordance with IBC Section 2603.3 and IRC Section R316.3.⁴⁰
- 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 qualified⁴¹ to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,⁴² 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 *Installation Procedure*
 - 9.3.1 *Horizontal Installation:*
 - 9.3.1.1 Blueskin VP Tech panels shall be installed with the long edge of the board faced horizontally with the overlay flaps facing downward and to the left (see **Figure 2**). The horizontal overlay flaps shall be positioned so that they cover the joint of the board below the panel being installed.

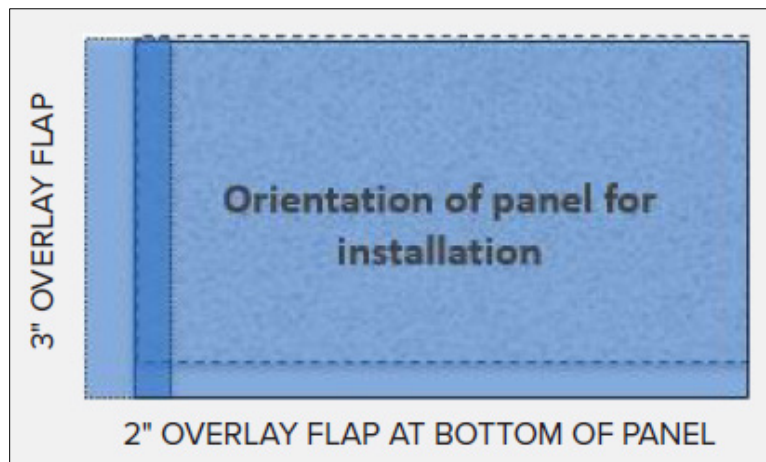


Figure 2. Horizontal Installation Orientation of Blueskin VP Tech – Flap Locations

- 9.3.1.1.1 When panels are installed in an above-grade wall that meets the sill plate, the horizontal flap may be removed.



- 9.3.1.2 Panels shall be installed starting from the bottom left corner.
- 9.3.1.3 Panels shall be installed using corrosion-resistant cap-nails, large head roofing nails, or 1" wide crown staples.
 - 9.3.1.3.1 Fasteners shall be of sufficient length to penetrate 1" minimum into framing member.
 - 9.3.1.3.2 When installed over open framing, fastener spacing shall be no greater than 6" on center at panel edges and no greater than 12" on center in the field of the panels.
 - 9.3.1.3.3 Stud spacing shall be a maximum 24" (610 mm) on center.
- 9.3.1.4 Panels shall be installed using a pneumatic nail or staple gun with an air pressure regulator to ensure no over-penetration.
- 9.3.1.5 Horizontally adjacent rows of Blueskin VP Tech shall have their vertical joints offset with butt joints occurring over studs.
- 9.3.1.6 Any horizontal reverse lap created during installation will need to be sealed using Henry® Moistop® Sealant or equivalent.
- 9.3.1.7 Joints shall be sealed by removing the release liners on the overlay flaps. While adhering the flaps, care shall be taken to not allow wrinkles to form. Joints shall be rolled using a "J" roller.
 - 9.3.1.7.1 Horizontal joints shall be sealed before vertical joints.

9.3.2 Vertical Installation:

- 9.3.2.1 Blueskin VP Tech panels may be installed vertically if the pre-applied overlay flap faces downward (by rotating 90° to the left).
 - 9.3.2.1.1 This may create a reverse lap that must be sealed with Henry Moistop Sealant. Contact the manufacturer for more details.
- 9.3.2.2 The steps under **Section 9.3.1**, "*Horizontal Installation*" are also applicable to "*Vertical Installation*".

- 9.3.3 Wherever the overlay flap is not used, VP Tech Seam Tape, or equivalent, shall be applied to cover the seams. The seam tape must cover a minimum of 3" on each side of the seam.
- 9.3.4 In any outside corners where the overlay flaps are not used, VP Tech tape, or equivalent, shall be adhered to seal the corners.
- 9.3.5 Window and door openings shall be flashed per manufacturer specifications.

9.4 Minimum Fastening Requirements for Over-Sheathing

- 9.4.1 Where an approved sheathing material capable of separately resisting transverse wind loads is required and Blueskin VP Tech is installed as over-sheathing:
 - 9.4.1.1 The installation of the approved structural sheathing is outside the scope of this report and shall be designed by an RDP.
 - 9.4.1.2 Blueskin VP Tech panels are installed onto the sheathed wall with minimum 0.120" x 1 1/4" (3 mm x 32 mm) galvanized roofing nails or 16-gauge galvanized staples having a 7/16" (11 mm) crown and 1 1/4" (32 mm) leg lengths.
 - 9.4.1.3 Fastener spacing shall be a maximum of 12" (304 mm) at the edges and 24" (610 mm) on intermediate members.
 - 9.4.1.3.1 Stud spacing shall be a maximum of 24" (610 mm) o.c.
 - 9.4.1.3.1.1 Minimum fastener penetration into the framing members is 3/4" (19 mm).



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 Air permeance testing in accordance with ASTM E2178
 - 10.1.2 Flame spread and smoke developed testing in accordance with UL 723
 - 10.1.3 Thermal properties testing in accordance with ASTM C518
 - 10.1.4 Water penetration testing in accordance with ASTM E331
 - 10.1.5 Water vapor permeance testing in accordance with ASTM E96
 - 10.1.6 Wind pressure resistance testing in accordance with ASTM E330 as specified in ABTG FS100
- 10.2 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.
- 10.3 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.
- 10.4 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.
- 10.5 *Testing and Engineering Analysis*
- 10.5.1 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.⁴³
- 10.6 Where additional condition of use and/or regulatory compliance information is required, please search for Blueskin VP Tech on the DrJ Certification website.

11 Findings

- 11.1 As outlined in **Section 6**, Blueskin VP Tech Weather-Resistive Thermal Insulation Sheathing 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, Blueskin VP Tech shall be approved for the following applications:
- 11.2.1 Use as insulated sheathing in accordance with the IRC Section N1102.5.1.1,⁴⁴ IECC Section R402.1, and IECC Section C402.1.
 - 11.2.2 Use as a WRB in accordance with the IBC Section 1403.2 and IRC Section R703.2.
 - 11.2.3 Use as a Class III vapor retarder in accordance with IBC Section 1404.3 and IRC Section R702.7.
 - 11.2.4 Use as an air barrier material in accordance with the IRC Section N1102.5.1.1,⁴⁵ IECC Section R402.5.1.1,⁴⁶ and IECC Section C402.6.2.3.1.⁴⁷



- 11.2.5 Use for resistance to wind pressure in accordance with IBC Section 2603.10 and IRC Section R303.8.⁴⁸
- 11.2.6 Use for limited flame spread and smoke developed indices in accordance with IBC Section 2603.3 and IRC Section R303.3.⁴⁹
- 11.3 Unless exempt by state statute, when Blueskin VP Tech is to be used as a structural and/or building envelope component in the design of a specific building, the design shall be performed by an RDP.
- 11.4 Any application specific issues not addressed herein can be engineered by an RDP. Assistance with engineering is available from Insulfoam.
- 11.5 IBC Section 104.2.3⁵⁰ (IRC Section R104.2.2⁵¹ and IFC Section 104.2.3⁵² 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:**⁵³ Building regulations require that the building official shall accept duly authenticated reports.⁵⁴
 - 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.⁵⁵

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, Blueskin VP Tech shall not be used:
 - 12.2.1 With adhesives and solvents that are chemically incompatible. This includes esters, ketones, ethers, aromatic and aliphatic hydrocarbons; nor
 - 12.2.2 As a nailing base for claddings, trim, windows, or doors.
- 12.3 Blueskin VP Tech, with thicknesses less than 1", shall be installed over an approved structural sheathing (separately installed) that is capable of resisting required wind pressures.
 - 12.3.1 The separate structural sheathing shall be designed by an RDP.
- 12.4 When used as part of a continuous air barrier assembly, all sheathing panel edges at the top and bottom of the wall assemblies and all joints between sheathing panels, shall be sealed with an approved construction tape.
- 12.5 Walls shall be braced by other means when using Blueskin VP Tech.
- 12.6 When used as a WRB, installation shall be in accordance with **Section 6.4**.
- 12.7 When Blueskin VP Tech is not installed as a WRB, other means of providing a WRB shall be provided.



- 12.8 In areas where the probability of termite infestation is very heavy, and the building is wood-framed construction, Blueskin VP Tech must not be placed on exterior walls located within 6" (152 mm) of the ground and shall meet the requirements of IBC Section 2603.8, IRC Section R303.7,⁵⁶ and IRC Section R305.4.⁵⁷
- 12.9 Blueskin VP Tech panels shall be separated from the interior of the building by an approved thermal barrier except where not required in accordance with IBC Section 2603.4 and IRC Section R303.4.⁵⁸
- 12.10 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:
- 12.10.1 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.
 - 12.10.2 This report and the installation instructions shall be submitted at the time of permit application.
 - 12.10.3 This innovative product has an internal quality control program and a third-party quality assurance program.
 - 12.10.4 At a minimum, this innovative product shall be installed per **Section 9**.
 - 12.10.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.
 - 12.10.6 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.
 - 12.10.7 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.
- 12.11 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.
- 12.12 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).
- 12.13 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 Blueskin VP Tech Weather-Resistive Thermal Insulation Sheathing, 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.insulfoam.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](http://www.drjcertification.org).



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](#), [ANSI 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%20or%20cause%20to%20be%20made%20the%20necessary%20tests%20and%20investigations%20and%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%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%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 [2021 IRC Section R316](#)

27 [2021 IRC Section N1102.4.1.1](#)

28 [2021 IECC Section C402.5.1.3](#)

29 [IECC Section C402.5](#)

30 [2021 IRC Section N1102.4.1.1](#)

31 [2021 IECC Section C402.5.1](#)

32 [2021 IRC Section R316.4](#)

33 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4>



34 <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>

35 <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>

36 [2021 IRC Section N1102.4.1.1](#)

37 [2021 IECC Section R402.4.1.1](#)

38 [2021 IECC Section C402.5.1.3](#) AND [2018 IECC Section C402.5.1.2.1](#)

39 [2021 IRC Section R316.8](#)

40 [2021 IRC Section R316.3](#)

41 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. **Dr.J** is an ANAB accredited product certification body.

42 <https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prqID=1&orqID=2125&statusID=4#:~:text=Bill%20Payment%20Date,-Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH>

43 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>

44 [2021 IRC Section N1102.4.1.1](#)

45 [2021 IRC Section N1102.4.1.1](#)

46 [2021 IECC Section R402.4.1.1](#)

47 [2021 IECC Section C402.5.1.3](#) AND [2018 IECC Section C402.5.1.2.1](#)

48 [2021 IRC Section R316.8](#)

49 [2021 IRC Section R316.3](#)

50 [2021 IBC Section 104.11](#)

51 [2021 IRC Section R104.11](#)

52 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>

53 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.

54 <https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1>

55 Multilateral approval is true for all ANAB accredited product evaluation agencies and all International Trade Agreements.

56 [2021 IRC Section R316.7](#)

57 [2021 IRC Section R318.4](#)

58 [2021 IRC Section R316.4](#)