Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2312-08

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Subject to Renewal: January 1, 2027

Vitraplate®

Trade Secret Report Holder:

Fairview Architectural

Phone: 860-242-2711 Website: www.fairview-na.com Email: helpdesk@fairview-na.com

CSI Designations:

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION Section: 07 42 00 - Wall Panels

1 Innovative Product Evaluated[1]

1.1 Vitraplate Cladding Panel

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KIRK H. GRUNDAHL LICENSE No. 73618 STATE OF FLORIDA PROFESSIONAL ENGINEER

January 14, 2025

2 Product Description and Materials

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

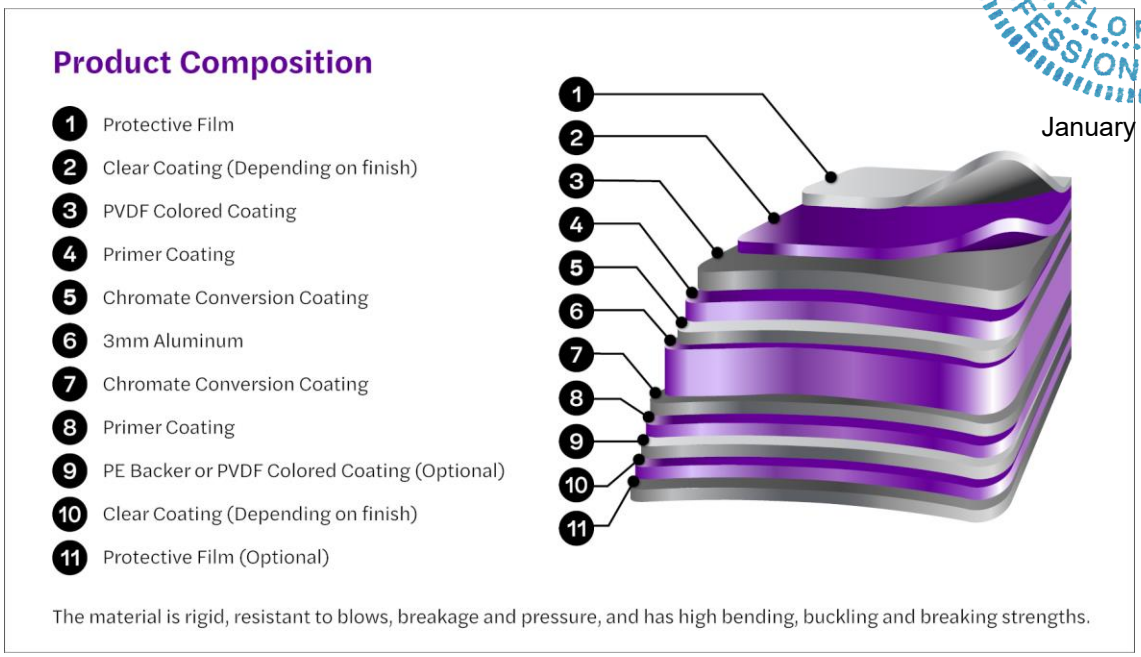

Figure 1. Typical Composition of Vitraplate Cladding Panel

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2.2 Vitraplate is a solid aluminum cladding panel prefinished in a coil-coated process with Vitranar® coating system.

2.2.1 Panels can be perforated after coating if desired for aesthetic reasons.

2.3 Vitraplate is nominally $^{1}/_{8}$" thick and has a weight of approximately 1.8 lb/ft^2.

2.3.1 *Standard Width:*

2.3.1.1 48" (1,016 mm)

2.3.1.2 60" (1,524 mm)

2.3.1.3 62" (1,575 mm)

2.3.2 *Standard Length:*

2.3.2.1 122" (3,099 mm)

2.3.2.2 146" (3,708 mm)

2.3.2.3 196" (4,978 mm)

2.3.3 Custom sizes are available upon request in sizes from 100" (2,540 mm) to 240" (6,096 mm).

2.4 See https://fairview-na.com/finishes for available finishes.

2.5 Vitraplate panels are installed using the Arrowhead® Architectural Panel System.[2]

2.5.1 Arrowhead Architectural Panel System is outside the scope of this report. For Arrowhead Flex, see Report Number 2006-02.

2.6 As needed, review material properties for design in **Section 6** and to regulatory evaluation in **Section 8**.

3 Definitions

3.1 New Materials[3] 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 strengths and permissible stresses shall be established by tests[5] and/or engineering analysis.[6]

3.2 Duly authenticated reports[7] and research reports[8] are test reports and related engineering evaluations, which are written by an approved agency[9] and/or an approved source.[10]

3.2.1 These reports contain intellectual property and/or trade secrets, which are protected by the Defend Trade Secrets Act (DTSA).[11]

3.3 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is listed in the ANAB directory.

3.4 An approved source is *"approved"* when a professional engineer (i.e., Registered Design Professional) 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 Registered Design Professional (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 enforce[14] 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 writing[15] 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]

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3.8 ANAB is an International Accreditation Forum (IAF) Multilateral Recognition Arrangement (MLA) signatory where recognition of certificates, validation and verification statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA with the appropriate scope, shall be approved.[17] Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent.[18]

3.9 Approval equity is a fundamental commercial and legal principle.[19]

4 Applicable Standards for the Listing; Regulations for the Regulatory Evaluation[20]

4.1 *Standards*

4.1.1 *AAMA 501.1: Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure*

4.1.2 *AAMA 508: Voluntary Test Method and Specification for Pressure Equalized Rainscreen Wall Cladding Systems*

4.1.3 *AAMA 509: Voluntary Test and Classification Method for Drained and Back Ventilated Rainscreen Wall Cladding Systems*

4.1.4 *AAMA 2605: Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix)*

4.1.5 *ASCE/SEI 7: Minimum Design Loads and Associated Criteria for Buildings and Other Structures*

4.1.6 *ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials*

4.1.7 *ASTM E283: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

4.1.8 *ASTM E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

4.1.9 *ASTM E331: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*

4.1.10 *ASTM E1233: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Cyclic Air Pressure Differential*

4.1.11 *TAS 201: Impact Test Procedures*

4.1.12 *TAS 202: Criteria for Testing Impact and Nonimpact Resistance Building Envelope Components Using Uniform Static Air Pressure*

4.1.13 *TAS 203: Criteria for Testing Products Subject to Cyclic Wind Pressure Loading*

4.2 *Regulations*

4.2.1 *IBC – 15, 18, 21: International Building Code®*

4.2.2 *IRC – 15, 18, 21: International Residential Code®*

4.2.3 *FBC-B—20, 23: Florida Building Code – Building*[21] *(FL46016)*

4.2.4 *FBC-R—20, 23: Florida Building Code – Residential*[21] *(FL46016)*

5 Listed[22]

5.1 Equipment, materials, products or services included in a List published by a nationally recognized testing laboratory (i.e., CBI), approved agency (i.e., CBI and DrJ), and/or approved source (i.e., DrJ) or other organization concerned with product evaluation (i.e., DrJ) that maintains periodic inspection (i.e., 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.

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6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 *General*

6.1.1 Vitraplate panels are used as exterior wall coverings in accordance with IBC Section 1406.[23]

6.1.2 Vitraplate panels are installed over wood-framed, steel-framed, masonry, or concrete walls capable of supporting the imposed loads in accordance with IBC Section 1609.

6.2 *Structural Design*

6.2.1 Walls incorporating Vitraplate panels shall be designed to resist wind loads per IBC Chapter 16 and ASCE 7 Chapter 30.

6.2.2 Vitraplate panels are capable of resisting the loads shown in **Table 1**.

Table 1. Allowable Wind Load Resistance and Wind Speed[1]

Product	Allowable Load psf (kN/m^2)	Allowable Components and Cladding Basic Wind Speed[4] mph (km/h)	
		ASCE 7-10 and 7-16 (V_{ult})	ASCE 7-22 (V_{ult})
Vitraplate	50 (2.4)	185 (298)	190 (306)

SI: 1 in = 25.4 mm, 1 psf = 0.0479 kN/m^2, 1 mph = 1.61 km/h

1. Tested in accordance with ASTM E330.
2. Allowable wind speeds are based on the following: Enclosed building, Mean roof height – 30', Exposure B, Zone 5, 10 sq. ft. effective wind area in accordance with ASCE 7-10, ASCE 7-16, and ASCE 7-22.

6.3 *High Velocity Hurricane Zone (HVHZ) – Wind and Impact Resistance*

6.3.1 Vitraplate panels were evaluated in accordance with TAS 201 and meet the missile impact test criteria for wind-borne debris in HVHZ in accordance with FBC-B Section 1626.

6.3.1.1 Vitraplate panels can resist the impact of the 9 lb. (40 N) missile propelled at 50 ft/s (15.2 m/s) without penetration, rupture, or opening of the panel.

6.3.2 Vitraplate panels were evaluated in accordance with TAS 202 and meet the uniform static air pressure criteria for HVHZ in accordance with FBC-B Section 1620.

6.3.2.1 Vitraplate panels can resist a static positive design pressure of +100 psf and a negative design pressure of -150 psf.

6.3.3 Vitraplate panels were evaluated in accordance with TAS 203 and can meet the fatigue load test criteria for HVHZ in accordance with FBC-B Section 1625.

6.3.3.1 The panels can resist cyclic loading per the FBC-B Table 1625.4 for a design load (p_{max}) of +100/-150 psf.

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6.4 *Weather Resistance*

6.4.1 Vitraplate wall assemblies installed via the Arrowhead Flex System were evaluated in accordance with AAMA 508 and AAMA 509.

6.4.2 Results are shown in **Table 2** and **Table 3**.

Table 2. AAMA 508 Evaluation of Vitraplate Panels Installed via Arrowhead System

Property	Test Method	Assessment
Air Leakage	ASTM E283	Pass
Pressure Cycling - Panel Fatigue	ASTM E1233	Pass
Static Water Penetration	ASTM E331	Pass
Dynamic Water Penetration	AAMA 501.1	Pass

Table 3. AAMA 509 Evaluation of Vitraplate Panels Installed via Arrowhead System

Property	Test Method	Classification
Air Leakage[1]	ASTM E283	Ventilation: V3
Static Water Penetration	ASTM E331	Water Penetration: W1
Dynamic Water Penetration	AAMA 501.1	

1. Tested in accordance with ASTM E283. Airflow readings were taken at the following: head, jamb, sill, intermediate vertical, and intermediate horizontal at 26 Pa (0.55 psf). Values shown is the sum of the airflow across the cladding elements divided by the total area of the wall assembly.

6.4.3 Durability of the Vitranar coating of Vitraplate was evaluated in accordance with AAMA 2605. Results are provided in **Table 4**.

Table 4. AAMA 2605 Evaluation of Vitranar Coating

Property		Test Method	Assessment
Dry Film Hardness		ASTM D3363	Pass
Film Adhesion		ASTM D3359	Pass
Impact Resistance		ASTM D2794	Pass
Salt Spray		ASTM B117	Pass
Water Resistance		ASTM D2247	Pass
Exterior Exposure- 10 years		ASTM D2244	Pass
Blistering	Humidity	ASTM D714	Pass
Weathering	Alkali	ASTM D1308	Pass
	Chalk	ASTM D4214	Pass
	Gloss Retention	ASTM D523	Pass
Bend Test		ASTM 4145	Pass

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6.4.4 Vitraplate may be used in exterior cladding assemblies in accordance with IBC Section 1402.2[24] where a Water-Resistive Barrier (WRB) is properly installed behind the Vitraplate per IBC Section 1403.2.[25]

6.4.5 The exterior wall envelope shall be flashed per IBC Section 1404.4[26] prior to the installation of Vitraplate using the Arrowhead Panel System.

6.5 *Fire-Resistance*

6.5.1 Use of Vitraplate as part of a fire-rated wall assembly is outside the scope of this evaluation.

6.6 *Surface Burning Characteristics*

6.6.1 The surface burn characteristics of Vitraplate are provided in **Table 5**.

Table 5. Surface Burning Characteristics[1]

Product	Flame Spread	Smoke Developed	Classification
Vitraplate	≤ 25	≤ 450	Class A
1. Tested in accordance with ASTM E84			

6.7 Where the application falls outside of the performance evaluation, conditions of use and/or installation requirements set forth herein, alternative techniques shall be permitted in accordance with accepted engineering practice and experience. This includes but is not limited to the following areas of engineering: mechanics or materials, structural, building science and fire science.

7 Certified Performance[27]

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.[28]

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.[29]

8 Regulatory Evaluation and Accepted Engineering Practice

8.1 Vitraplate Cladding Panel complies with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:

8.1.1 Vitraplate was evaluated to determine the following properties for use as an exterior wall covering in accordance with IBC Section 1406[30] for Types I-IV construction:

8.1.1.1 Structural design in accordance with IBC Section 1402.3[31] and IBC Section 1406.4[32]

8.1.1.2 Weather resistance in accordance with IBC Section 1402.2[33]

8.1.1.3 Durability in accordance with IBC Section 1406.7[34]

8.1.1.4 Thermal barrier requirement in accordance with IBC Section 1406.10.2[35]

8.1.1.5 Surface burning characteristics in accordance with IBC Section 1406.10.1[36]

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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 Engineering, LLC (DrJ), an ISO/IEC 17065 accredited certification body and a professional engineering company operated by RDP/approved sources. DrJ is qualified[37] to practice product and regulatory compliance services within its scope of accreditation and engineering expertise, respectively.

8.3 Engineering evaluations are conducted with DrJ's ANAB accredited ICS code scope of expertise, which are also its areas of professional engineering competence.

8.4 Any regulation specific issues not addressed in this section are outside the scope of this report.

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, the more restrictive shall govern.

9.3 *Installation Procedure*

9.3.1 According to the manufacturer installation instructions, Vitraplate Cladding Panels must be installed using the Arrowhead Panel System.

9.3.2 Component parts observed to be defective in any way, including warped, bowed, dented, abraded, and broken members, must not be installed. Members or parts that have been damaged during installation or thereafter, before substantial completion of the project, shall be removed and replaced.

9.3.3 No cutting, trimming, welding, or brazing of components, which could in any way damage the finish, decrease the strength, or result in visual imperfections or failure in performance shall be executed during installation.

9.3.4 Components that require alteration shall be returned to the fabricator. If necessary, replace with new components.

9.3.5 *Tolerances:*

9.3.5.1 All components shall be installed visually flat, level, and true to line with uniform joints and reveals.

9.3.5.2 Maximum deviation for vertical members is $^1/_8$" over 18' and $^1/_4$" over 40'.

9.3.5.3 Maximum deviation for horizontal members is $^1/_8$" over 30'.

9.3.6 Anchorage of the cladding substructure to the building structure shall be by approved methods in strict accordance with the specified and approved shop and/or installation drawings. Supporting brackets shall be designed to provide three-dimensional adjustments and accurate location of wall components.

9.3.7 All joints between panels shall be set at widths as shown on the drawings with tolerance of $\pm^1/_{16}$". No two adjacent or perpendicular joints shall have a difference in width of more than $^1/_8$". In addition, the tolerance between adjacent panels across any joint shall not exceed $^1/_{16}$" locally.

9.3.8 *Repairs:*

9.3.8.1 Repair panels with minor damage so those repairs are not discernable at a distance of 120" (10 ft. or 3.1 m).

9.3.8.2 Remove and replace panels damaged beyond repair per panel system replacement instructions.

9.3.8.3 Remove protective film immediately after installation of panels to avoid prolonged exposure to sunlight.

9.3.8.4 Remove from project site: Damaged panels, protective film, and other debris attributable to work of this section.

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9.3.9 *Protection:*

9.3.9.1 *Final Cleaning:*

9.3.9.1.1 When installation is complete, remove extraneous matter and marks off the façade components in a manner that leaves the completed installation free of any streaking, spotting, or non-uniform appearance.

9.3.9.2 *Protection:*

9.3.9.2.1 Protect as necessary and leave the finished work undamaged on completion.

9.3.9.2.2 Panels shall be stored in well-ventilated space and out of direct sunlight.

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 Wind load resistance testing in accordance with ASTM E330

10.1.2 Wind and impact testing for use in a HVHZ in accordance with TAS 201, TAS 202, and TAS 203

10.1.3 Weather resistance testing in accordance with AAMA 508 and AAMA 509

10.1.4 Durability testing in accordance with AAMA 2605

10.1.5 Surface burning characteristics testing in accordance with ASTM E84

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 RDPs. 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: 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.[38]

10.6 Where additional condition of use and/or regulatory compliance information is required, please search for Vitraplate on the DrJ Certification website.

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11 Findings

11.1 As outlined in **Section 6**, Vitraplate has performance characteristics that were tested and/or meet applicable regulations and is 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, Vitraplate shall be approved for the following applications:

11.2.1 Use as a code-compliant component in an exterior wall covering for all construction types under the IBC when installed in accordance with **Section 6** where applicable, and **Section 9** of this report.

11.3 Unless exempt by state statute, when Vitraplate 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 Fairview Architectural.

11.5 IBC Section 104.11 (IRC Section R104.11 and IFC Section 104.10[39] are similar) in pertinent part 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.

11.6 **Approved**:[40] Building regulations require that the building official shall accept duly authenticated reports.[41]

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 Agreements (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.[42]

12 Conditions of Use

12.1 Material properties shall not fall outside the boundaries defined in **Section 6**.

12.2 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.

12.3 As listed herein, Vitraplate shall be:

12.3.1 Separated from the interior of a building by an approved thermal barrier consisting of $^1/_2$" (12.7 mm) gypsum wallboard or a material that is tested in accordance with, and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275.

12.3.2 Stored in enclosed spaces, above ground, under protective covers.

12.3.2.1 Extreme care shall be taken to avoid contact with moisture, condensation, or materials that might cause staining, such as lime, cement, fresh concrete, or chemicals.

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12.4 *Storage and Protection*

12.4.1 Store materials protected from exposure to harmful weather conditions and at temperature condition recommended by the manufacturer/fabricator.

12.4.2 Store panels in well-ventilated space out of direct sunlight.

12.4.3 Protect panels from moisture and condensation with tarpaulins or other suitably ventilated weather-tight covering.

12.4.4 Slope panels to ensure positive drainage and prevent water accumulation.

12.4.5 Do not store panels in any space where ambient temperatures can exceed 120°F (49°C).

12.4.6 Avoid contact with any other material that might cause staining, denting, scratching, or other surface damage.

12.5 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:

12.5.1 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.

12.5.2 This report and the installation instructions shall be submitted at the time of permit application.

12.5.3 This innovative product has an internal quality control program and a third-party quality assurance program.

12.5.4 At a minimum, this innovative product shall be installed per **Section 9** of this report.

12.5.5 The review of this report by the AHJ shall comply with IBC Section 104 and IBC Section 105.4.

12.5.6 This innovative product has an internal quality control program and a third party quality assurance program in accordance with IBC Section 104.4, IBC Section 110.4, IBC Section 1703, IRC Section R104.4 and IRC Section R109.2.

12.5.7 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.

12.6 The approval of this report by the AHJ shall comply with IBC Section 1707.1, where legislation states in part, "*the building official shall accept duly authenticated reports from approved agencies in respect to the quality and manner of use of new material or assemblies as provided for in Section 104.11*," all of IBC Section 104, and IBC Section 105.4.

12.7 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).

12.8 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.

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13 Identification

13.1 The innovative product 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.fairview-na.com.

14 Review Schedule

14.1 This report is subject to periodic review and revision. For the latest version, visit drjcertification.org.

14.2 For information on the status of this report, please contact DrJ Certification.

15 Approved for Use Pursuant to U.S. and International Legislation Defined in Appendix A

15.1 Vitraplate Cladding Panel is included in this report published by an approved agency that is concerned with evaluation of products or services, maintains periodic inspection of the production of listed materials or periodic evaluation of services. This report states either that the material, product or service meets recognized standards or has been tested and found suitable for a specified purpose. This report meets the legislative intent and definition of being acceptable to the AHJ.

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Appendix A

1 Legislation that Authorizes AHJ Approval

1.1 **Fair Competition**: State legislatures have adopted Federal regulations for the examination and approval of building code referenced and alternative products, materials, designs, services, assemblies and/or methods of construction that:

1.1.1 Advance innovation

1.1.2 Promote competition so all businesses have the opportunity to compete on price and quality in an open market on a level playing field unhampered by anticompetitive constraints

1.1.3 Benefit consumers through lower prices, better quality, and greater choice

1.2 **Adopted Legislation**: The following local, state and federal regulations affirmatively authorize this innovative product to be approved by AHJs, delegates of building departments and/or delegates of an agency of the federal government:

1.2.1 Interstate commerce is governed by the Federal Department of Justice to encourage the use of innovative products, materials, designs, services, assemblies, and/or methods of construction. The goal is to "*protect economic freedom and opportunity by promoting free and fair competition in the marketplace*."

1.2.2 Title 18 US Code Section 242 affirms and regulates the right of individuals and businesses to freely and fairly have new products, materials, designs, services, assemblies and/or methods of construction approved for use in commerce. Disapproval of alternatives shall be based upon non-conformance with respect to specific provisions of adopted legislation and shall be provided in writing stating the reasons why the alternative was not approved, with reference to the specific legislation violated.

1.2.3 The federal government and each state have a public records act. In addition, each state also has legislation that mimics the federal Defend Trade Secrets Act 2016 (DTSA),[43] where providing test reports, engineering analysis and/or other related IP/TS is subject to prison of not more than ten years[44] and/or a $5,000,000 fine or 3 times the value of[45] the Intellectual Property (IP) and Trade Secrets (TS).

1.2.3.1 Compliance with public records and trade secret legislation requires approval through the use of Listings, certified reports, Technical Evaluation Reports, duly authenticated reports and/or research reports prepared by approved agencies and/or approved sources.

1.2.4 For new materials[46] that are not specifically provided for in any regulation, the design strengths and permissible stresses shall be established by tests, where suitable load tests simulate the actual loads and conditions of application that occur.

1.2.5 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design using accepted engineering practice.[47]

1.2.6 The commerce of approved sources (i.e., registered PEs) is regulated by professional engineering legislation. Professional engineering commerce shall always be approved by AHJs, except where there is evidence provided in writing, that specific legislation have been violated by an individual registered PE.

1.2.7 The AHJ 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 IBC Section 104.11.[48]

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1.3 **Approved**[49] **by Los Angeles**: The Los Angeles Municipal Code (LAMC) states in pertinent part that the provisions of LAMC are not intended to prevent the use of any material, device or method of construction not specifically prescribed by LAMC. The Department shall use Part III, Recognized Standards in addition to Part II, Uniform Building Code Standards of Division 35, Article 1, Chapter IX of the LAMC in evaluation of products for approval where such standard exists for the product or the material and may use other approved standards that apply. Whenever tests or certificates of any material or fabricated assembly are required by Chapter IX of the LAMC, such tests or certification shall be made by a testing agency approved by the Superintendent of Building to conduct such tests or provide such certifications. The testing agency shall publish the scope and limitation(s) of the listed material or fabricated assembly.[50] The Superintendent of Building Approved Testing Agency Roster is provided by the Los Angeles Department of Building and Safety (LADBS). The Center for Building Innovation (CBI) Certificate of Approval License is TA24945. Tests and certifications found in a DrJ Listing are LAMC approved. In addition, the Superintendent of Building 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 the California Building Code (CBC) Section 1707.1.[51]

1.4 **Approved by Chicago**: The Municipal Code of Chicago (MCC) states in pertinent part that an Approved Agency is a Nationally Recognized Testing Laboratory (NRTL) acting within its recognized scope and/or a certification body accredited by the American National Standards Institute (ANSI) acting within its accredited scope. Construction materials and test procedures shall conform to the applicable standards listed in the MCC. Sufficient technical data shall be submitted to the building official to substantiate the proposed use of any product, material, service, design, assembly and/or method of construction not specifically provided for in the MCC. This technical data shall consist of research reports from approved sources (i.e., MCC defined Approved Agencies).

1.5 **Approved by New York City**: The 2022 NYC Building Code (NYCBC) states in part that an approved agency shall be deemed[52] an approved testing agency via ISO/IEC 17025 accreditation, an approved inspection agency via ISO/IEC 17020 accreditation, and an approved product evaluation agency via ISO/IEC 17065 accreditation. Accrediting agencies, other than federal agencies, must be members of an internationally recognized cooperation of laboratory and inspection accreditation bodies subject to a mutual recognition agreement[53] (i.e., ANAB, International Accreditation Forum also known as IAF, etc.).

1.6 **Approved by Florida**: Statewide approval of products, methods or systems of construction shall be approved, without further evaluation by:

1.6.1 A certification mark or listing of an approved certification agency,

1.6.2 A test report from an approved testing laboratory,

1.6.3 A product evaluation report based upon testing or comparative or rational analysis, or a combination thereof, from an approved product evaluation entity, or

1.6.4 A product evaluation report based upon testing, comparative or rational analysis, or a combination thereof, developed, signed and sealed by a professional engineer or architect, licensed in Florida.

1.6.5 For local product approval, products or systems of construction shall demonstrate compliance with the structural wind load requirements of the Florida Building Code (FBC) through one of the following methods:

1.6.5.1 A certification mark, listing or label from a commission-approved certification agency indicating that the product complies with the code,

1.6.5.2 A test report from a commission-approved testing laboratory indicating that the product tested complies with the code,

1.6.5.3 A product-evaluation report based upon testing, comparative or rational analysis, or a combination thereof, from a commission-approved product evaluation entity which indicates that the product evaluated complies with the code,

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1.6.5.4 A product-evaluation report or certification based upon testing or comparative or rational analysis, or a combination thereof, developed and signed and sealed by a Florida professional engineer or Florida registered architect, which indicates that the product complies with the code, or

1.6.5.5 A statewide product approval issued by the Florida Building Commission.

1.6.6 The Florida Department of Business and Professional Regulation (DBPR) website provides a listing of companies certified as a Product Evaluation Agency (i.e., EVLMiami 13692), a Product Certification Agency (i.e., CER10642), and as a Florida Registered Engineer (i.e., ANE13741).

1.7 **Approved by Miami-Dade County (i.e., Notice of Acceptance [NOA])**: A Florida statewide approval is an NOA. An NOA is a Florida local product approval. By Florida law, Miami-Dade County shall accept the statewide and local Florida Product Approval as provided for in Florida legislation 553.842 and 553.8425.

1.8 **Approved by New Jersey**: Pursuant to the 2018 Building Code of New Jersey in IBC Section 1707.1 General,[54] it states: "*In the absence of approved rules or other approved standards, 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 the administrative provisions of the Uniform Construction Code (N.J.A.C. 5:23)*".[55] Furthermore N.J.A.C 5:23-3.7 states: "*Municipal approvals of alternative materials, equipment, or methods of construction*."

1.8.1 **Approvals**: Alternative materials, equipment or methods of construction shall be approved by the appropriate subcode official provided the proposed design is satisfactory and that the materials, equipment or methods of construction are suitable for the intended use and are at least the equivalent in quality, strength, effectiveness, fire resistance, durability and safety of those conforming with the requirements of the regulations.

1.8.1.1 A field evaluation label and report or letter issued by a nationally recognized testing laboratory verifying that the specific material, equipment or method of construction meets the identified standards or has been tested and found to be suitable for the intended use, shall be accepted by the appropriate subcode official as meeting the requirements of the above.

1.8.1.2 Reports of engineering findings issued by nationally recognized evaluation service programs such as but not limited to, the Building Officials and Code Administrators (BOCA), the International Conference of Building Officials (ICBO), the Southern Building Code Congress International (SBCCI), the International Code Council (ICC), and the National Evaluation Service, Inc., shall be accepted by the appropriate subcode official as meeting the requirements of the above.

1.8.2 The New Jersey Department of Community Affairs has confirmed that technical evaluation reports, from any accredited entity listed by ANAB, meets the requirements of item the previous paragraph, given that the listed entities are no longer in existence and/or do not provide "*reports of engineering findings*."

1.9 **Approved by the Code of Federal Regulations Manufactured Home Construction and Safety Standards**: Pursuant to Title 24, Subtitle B, Chapter XX, Part 3282.14[56] and Part 3280,[57] the Department encourages innovation and the use of new technology in manufactured homes. The design and construction of a manufactured home shall conform to the provisions of Part 3282 and Part 3280 where key approval provisions in mandatory language follow:

1.9.1 "*All construction methods shall be in conformance with accepted engineering practices*."

1.9.2 "*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*."

1.9.3 "*The design stresses of all materials shall conform to accepted engineering practice*."

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1.10 **Approval by US, Local and State Jurisdictions in General**: In all other local and state jurisdictions, the adopted building code legislation states in pertinent part that:

1.10.1 For new materials that are not specifically provided for in this code, the design strengths and permissible stresses shall be established by tests.[58]

1.10.2 For innovative alternatives and/or methods of construction, the building official shall accept duly authenticated reports from approved agencies with respect to the quality and manner of use of new materials or assemblies.[59]

1.10.2.1 An approved agency is *"approved"* when it is ANAB ISO/IEC 17065 accredited. DrJ Engineering, LLC (DrJ) is in the ANAB directory.

1.10.2.2 An approved source is *"approved"* when an RDP is properly licensed to transact engineering commerce. The regulatory authority governing approved sources is the state legislature via its professional engineering regulations.[60]

1.10.3 The design strengths and permissible stresses of any structural material…shall conform to the specifications and methods of design of accepted engineering practice performed by an approved source.[61]

1.11 **Approval by International Jurisdictions**: The USMCA and GATT agreements provide for approval of innovative materials, designs, services, and/or methods of construction through the Agreement on Technical Barriers to Trade and the IAF Multilateral Recognition Arrangement (MLA), where these agreements:

1.11.1 State that conformity assessment procedures (i.e., ISO/IEC 17020, 17025, 17065, etc.) are prepared, adopted, and applied so as to grant access for suppliers of like products originating in the territories of other Members under conditions no less favourable than those accorded to suppliers of like products of national origin or originating in any other country, in a comparable situation.

1.11.2 **Approved**: The purpose of the MLA is to ensure mutual recognition of accredited certification and validation/verification statements between signatories to the MLA and subsequently, acceptance of accredited certification and validation/verification statements in many markets based on one accreditation for the timely approval of innovative materials, designs, services, and/or methods of construction.

1.11.3 ANAB is an IAF-MLA signatory where recognition of certificates, validation, and verification statements issued by conformity assessment bodies accredited by all other signatories of the IAF MLA, with the appropriate scope, shall be approved.[62]

1.11.4 Therefore, all ANAB ISO/IEC 17065 duly authenticated reports are approval equivalent.[63]

1.12 Approval equity is a fundamental commercial and legal principle.[64]

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Issue Date: December 9, 2024

Subject to Renewal: January 1, 2027

FBC Supplement to Report Number 2312-08

REPORT HOLDER: Fairview Architectural

1 Evaluation Subject

1.1 Vitraplate

2 Purpose and Scope

2.1 Purpose

2.1.1 The purpose of this Report Supplement is to show Vitraplate, recognized in Report Number 2312-08, has also been evaluated for compliance with the codes listed below as adopted by the Florida Building Commission.

2.2 *Applicable Code Editions*

2.2.1 *FBC-B—20, 23: Florida Building Code – Building (FL46016)*

2.2.2 *FBC-R—20, 23: Florida Building Code – Residential (FL46016)*

3 Conclusions

3.1 Vitraplate, described in Report Number 2312-08, complies with the FBC-B and FBC-R and is subject to the conditions of use described in this supplement.

3.2 Where there are variations between the IBC and IRC and the FBC-B and FBC-R applicable to this report, they are listed here:

3.2.1 FBC-B Section 104.4 and Section 110.4 are reserved.

3.2.2 FBC-R Section R104 and Section R109 are reserved.

3.2.3 FBC-B Section 1403.2 replaces IBC Section 1402.2.

3.2.4 FBC-B Section 1404.2 replaces IBC Section 1403.2.

3.2.5 FBC-B Section 1405.2 replaces IBC Section 1404.2.

3.2.6 FBC-B Section 1405.4 replaces IBC Section 1404.4.

3.2.7 FBC-B Section 1407 replaces IBC Section 1406.

3.2.8 FBC-B Section 1407.4 replaces IBC Section 1406.4.

3.2.9 FBC-B Section 1407.7 replaces IBC Section 1406.7.

3.2.10 FBC-B Section 1407.10.1 replaces IBC Section 1406.10.1.

3.2.11 FBC-B Section 1407.10.2 replaces IBC Section 1406.10.2.

3.2.12 FBC-B Section 1407.10.3 replaces IBC Section 1406.10.2.

3.2.13 FBC-B Section 1609 replaces IBC Section 1609.

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4 Conditions of Use

4.1 Vitraplate, described in Report Number 2312-08, must comply with all of the following conditions:

4.1.1 All applicable sections in Report Number 2312-08.

4.1.2 The design, installation, and inspections are in accordance with additional requirements of FBC-B Chapter 16 and Chapter 17, as applicable.

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Notes

1 For more information, visit drjcertification.org or call us at 608-310-6748.

2 https://fairview-na.com/installation-systems/

3 https://up.codes/viewer/wyoming/ibc-2021/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/colorado/ibc-2021/chapter/1/scope-and-administration#104.11

5 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests%20as

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/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706:~:text=shall%20conform%20to%20the%20specifications%20and%20methods%20of%20design%20of%20accepted%20engineering%20practice

7 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies

8 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1703.4.2

9 https://up.codes/viewer/wyoming/ibc-2021/chapter/2/definitions#approved_agency

10 https://up.codes/viewer/wyoming/ibc-2021/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.cbitest.com/accreditation/

14 https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#104:~:text=to%20enforce%20the%20provisions%20of%20this%20code

15 https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#104.11:~:text=Where%20the%20alternative%20material%2C%20design%20or%20method%20of%20construction%20is%20not%20approved%2C%20the%20building%20official%20shall%20respond%20in%20writing%2C%20stating%20the%20reasons%20why%20the%20alternative%20was%20not%20approved AND https://up.codes/viewer/colorado/ibc-2021/chapter/1/scope-and-administration#105.3.1:~:text=If%20the%20application%20or%20the%20construction%20documents%20do%20not%20conform%20to%20the%20requirements%20of%20pertinent%20laws%2C%20the%20building%20official%20shall%20reject%20such%20application%20in%20writing%2C%20stating%20the%20reasons%20therefore

16 https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-tests#1707.1:~:text=the%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%20104.11

17 https://iaf.nu/en/about-iaf-mla/#:~:text=it%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, all references in this Listing are from the 2021 version of the codes and the standards referenced therein. This material, product, design, service and/or method of construction also complies with the 2000-2021 versions of the referenced codes and the standards referenced therein.

21 All references to the FBC-B and FBC-R are the same as the 2021 IBC and 2021 IRC unless otherwise noted in the Florida Supplement at the end of this report.

22 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280#p-3280.2(Listed%20or%20certified); https://up.codes/viewer/colorado/ibc-2021/chapter/2/definitions#listed AND https://up.codes/viewer/colorado/ibc-2021/chapter/2/definitions#labeled

23 2015 IBC Section 1407

24 2015 IBC Section 1403.2

25 2015 IBC Section 1404.2

26 2015 IBC Section 1405.4

27 https://up.codes/viewer/colorado/ibc-2021/chapter/17/special-inspections-and-tests#1703.4

28 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

29 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

30 2015 IBC Section 1407

31 2015 IBC Section 1403.3

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32 2015 IBC Section 1407.4

33 2015 IBC Section 1403.2

34 2015 IBC Section 1407.7

35 2015 IBC Section 1407.10.2

36 2015 IBC Section 1407.10.1

37 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.

38 See Code of Federal Regulations (CFR) Title 24 Subtitle B Chapter XX Part 3280 for definition.

39 2018 IFC Section 104.9

40 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 where the building code authorizes sentences to have an ordinarily accepted meaning such as the context implies.

41 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1707.1

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

43 http://www.drjengineering.org/AppendixC AND https://www.drjcertification.org/cornell-2016-protection-trade-secrets

44 https://www.law.cornell.edu/uscode/text/18/1832#:~:text=imprisoned%20not%20more%20than%2010%20years

45 https://www.law.cornell.edu/uscode/text/18/1832#:~:text=Any%20organization%20that,has%20thereby%20avoided

46 https://up.codes/viewer/wyoming/ibc-2021/chapter/17/special-inspections-and-tests#1706.2

47 IBC 2021, Section 1706.1 Conformance to Standards

48 IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General

49 See **Section 11** for the distilled building code definition of **Approved**

50 Los Angeles Municipal Code, SEC. 98.0503. TESTING AGENCIES

51 https://up.codes/viewer/california/ca-building-code-2022/chapter/17/special-inspections-and-tests#1707.1

52 New York City, The Rules of the City of New York, § 101-07 Approved Agencies

53 New York City, The Rules of the City of New York, § 101-07 Approved Agencies

54 https://up.codes/viewer/new_jersey/ibc-2018/chapter/17/special-inspections-and-tests#1707.1

55 https://www.nj.gov/dca/divisions/codes/codreg/ucc.html

56 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3282/subpart-A/section-3282.14

57 https://www.ecfr.gov/current/title-24/subtitle-B/chapter-XX/part-3280

58 IBC 2021, Section 1706 Design Strengths of Materials, 1706.2 New Materials. Adopted law pursuant to IBC model code language 1706.2.

59 IBC 2021, Section 1707 Alternative Test Procedure, 1707.1 General. Adopted law pursuant to IBC model code language 1707.1.

60 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/

61 IBC 2021, Section 1706 Design Strengths of Materials, Section 1706.1 Conformance to Standards Adopted law pursuant to IBC model code language 1706.1.

62 https://iaf.nu/en/about-iaf-mla/#:~:text=it%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

63 True for all ANAB accredited product evaluation agencies and all International Trade Agreements.

64 https://www.justice.gov/crt/deprivation-rights-under-color-law AND https://www.justice.gov/atr/mission

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