Listing and Technical Evaluation Report™

A Duly Authenticated Report from an Approved Agency

Report No: 2509-108

Issue Date: May 7, 2026

Revision Date: May 19, 2026

Subject to Renewal: July 1, 2027

Alsco® Aluminum Soffit Panels

Trade Secret Report Holder:

Alsco® Aluminum Building Products

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CSI Designations:

DIVISION: 05 00 00 - METALS
Section: 05 50 00 - Metal Fabrications

DIVISION: 07 00 00 - THERMAL AND MOISTURE PROTECTION
Section: 07 42 13 - Metal Wall Panels

1 Innovative Products Evaluated[1]

1.1 Aluminum Soffit Panels:

1.1.1 Double 6 Profile:

1.1.1.1 Solid: AVBS12

1.1.1.2 Vented: APERFD6

1.1.2 Triple 4 Profile:

1.1.2.1 Solid: VBT4S12, T4S12

1.1.2.2 Center Vented: VBT4CV12, T4CV12

1.1.2.3 Fully Vented: VBT4V12, T4V12

1.1.3 Quad 4 Profile:

1.1.3.1 Stealth: A-HV16

1.1.3.2 Fully Vented Economy: ECNQ4V16

1.1.3.3 Solid: Q4S16

1.1.3.4 Center Vented: Q4CV16

1.1.3.5 Fully Vented: Q4V16

2 Product Description and Materials

2.1 The innovative products evaluated in this report are shown in **Figure 1**.

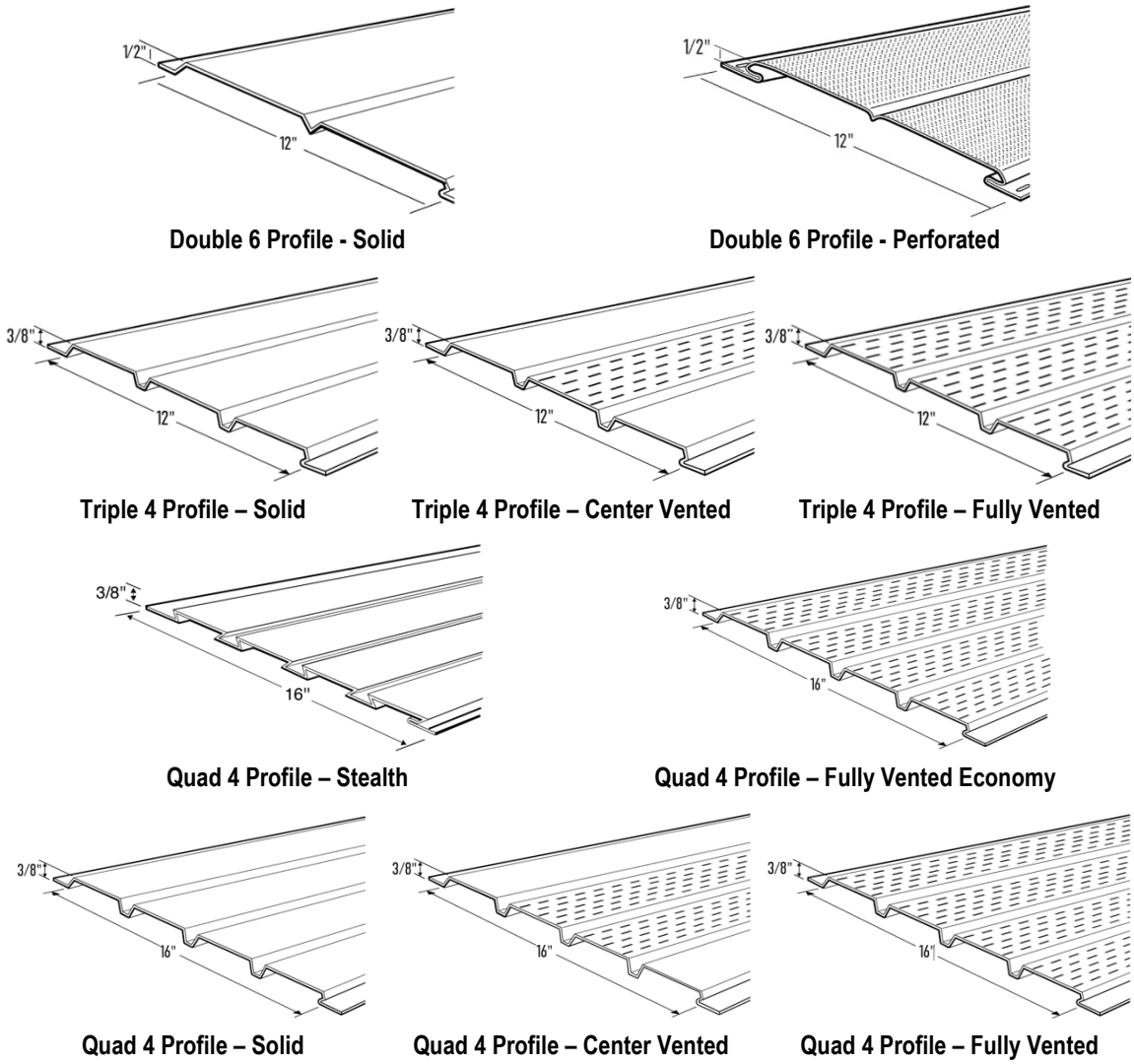


Figure 1. Aluminum Soffit Panels

2.2 Aluminum Soffit Panels are formed, vented/perforated aluminum panels intended for installation at roof eaves/soffits and similar horizontal projections.

2.2.1 Aluminum Soffit Panels are formed from 0.014" to 0.019" thick 3105 aluminum and painted.

2.2.2 Panels interlock with adjacent panels per the profile geometry.

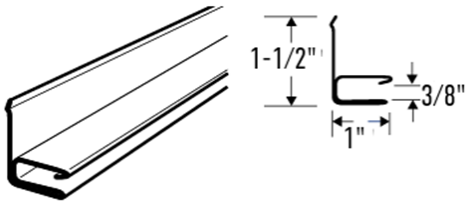
2.2.3 Dimensions for Aluminum Soffit Panels are shown in **Table 1**.

Table 1. Aluminum Soffit Panels Dimensions

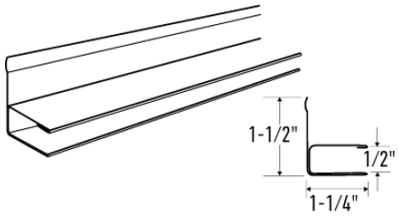
Product			Thickness (in)	Overall Profile Depth (in)	Panel Width (in)	Net Free Vent Area (in^2 per lineal ft)
Double 6	Solid	AVBS12	0.017	1/2	12	-
	Perforated	APERFD6	0.016	1/2	12	13.87
Triple 4	Solid	VBT4S12	0.017	3/8	12	-
		T4S12	0.019			
	Center Vented	VBT4CV12	0.017	3/8	12	3.64
		T4CV12	0.019			
	Fully Vented	VBT4V12	0.017	3/8	12	11.36
		T4V12	0.019			
Quad 4	Stealth	A-HV16	0.019	3/8	16	8.00
	Fully Vented Economy	ECNQ4V16	0.014	3/8	16	15.96
	Solid	Q4S16	0.019	3/8	16	-
	Center Vented	Q4CV16	0.019	3/8	16	8.34
	Fully Vented	Q4V16	0.019	3/8	16	15.96
SI: 1 in = 25.4 mm, 1-psf = 0.0479 kPa						

2.3 Panels are mechanically retained by engagement into various formed channels that are installed at framing boundaries.

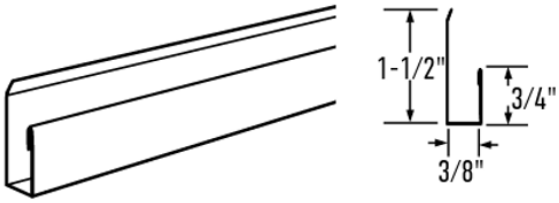
2.3.1 F-Channels, J-Channels, and BASL Fascia Caps are formed from 0.019" thick 3105 aluminum, and then painted. See **Figure 2** for details.



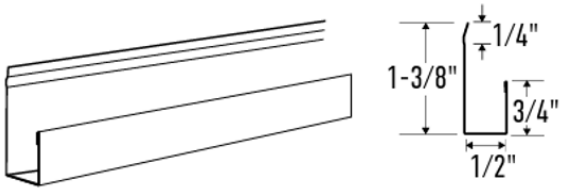
3/8" F-Channel for Triple 4/Quad 4 Soffit



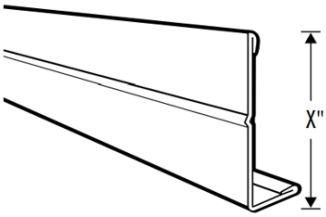
1/2" F-Channel for Double 6 Soffit



3/8" J-Channel for Triple 4/Quad 4 Soffit



1/2" J-Channel for Double 6 Soffit



BASL Fascia Cover

Figure 2. Accessory Profiles

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

3 Definitions[2]

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 strength 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 that are written by an approved agency[9] 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 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]

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; Regulations[20]

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 3282.14[23] and Part 3280[24] 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 *FBC-B – 20, 23: Florida Building Code[25] – Building (FL 48211)*

4.2.4 *FBC-R – 20, 23: Florida Building Code[25] – Residential (FL 48211)*

4.2.5 *CBC – 22, 25: California Building Code[26] (Title 24, Part 2)*

4.2.6 *CRC – 22, 25: California Residential Code[26] (Title 24, Part 2.5)*

4.2.7 *CWUI – 25: California Wildland-Urban Interface Code[27] (Title 24, Part 7)*

4.3 *Standards*

4.3.1 *ASCE 7: Minimum Design Loads and Associated Criteria for Buildings and Other Structures*

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

5 Listed[28]

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

6 Tabulated Properties Generated from Nationally Recognized Standards

6.1 *Structural Applications*

6.1.1 Assemblies using Aluminum Soffit Panels were evaluated for out-of-plane wind pressures as required per IBC Section 1402.3 and IRC Section R703.1.2.

6.1.2 Allowable wind loads are listed in **Table 2** and **Table 3**.

6.1.2.1 Wood framing shall be of a species with a minimum published specific gravity of 0.42.

6.1.2.2 Masonry shall conform to ASTM C90.

Table 2. Aluminum Soffit Panels Wind Resistance – Wood Wall[2,3]

Product[5]	Soffit Unsupported Span (in)	Fasteners for F-Channel Attachment to Wall[4]	Fasteners o.c. Spacing into F-Channel (in)	Allowable Wind Pressure (psf)
Double 6	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	24	+83 / -69
			16	+94 / -78
			12	+104 / -86
	16		24	+52 / -58
			16	+52 / -58
			12	+58 / -64
	24		24	+23 / -26
			16	+23 / -26
			12	+26 / -28
Triple 4	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	24	+86 / -78
			16	+86 / -78
			12	+95 / -86
	16		24	+48 / -55
			16	+48 / -55
			12	+54 / -61
	24		24	+21 / -24
			16	+21 / -24
			12	+24 / -27

Table 2. Aluminum Soffit Panels Wind Resistance – Wood Wall[2,3]

Product[5]	Soffit Unsupported Span (in)	Fasteners for F-Channel Attachment to Wall[4]	Fasteners o.c. Spacing into F-Channel (in)	Allowable Wind Pressure (psf)
Quad 4	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	24	+89 / -80
			16	+89 / -80
			12	+99 / -88
	16		24	+50 / -54
			16	+50 / -54
			12	+56 / -60
	24		24	+20 / -20
			16	+20 / -20
			12	+22 / -22

SI: 1 in = 25.4 mm, 1-psf = 0.0479 kPa

1. The 12" span values are applicable to a 24" overhang distance with a center support.
2. The soffit is attached to the wood fascia board with (1) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staple at each groove. BASL Fascia cover attached to wood with (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the wide face, and (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the narrow edge of the fascia board.
3. Wood framing members shall be of a species with a published minimum specific gravity of 0.42.
4. Staple groups (of 3) shall be arranged as shown in **Figure 3**.
5. Allowable wind pressure values are applicable for products listed in **Section 1**.

Table 3. Aluminum Soffit Panels Wind Resistance – Masonry Wall[2,3]

Product[4]	Soffit Unsupported Span (in)	Fasteners for F-Channel Attachment to Wall	Fasteners o.c. Spacing into F-Channel (in)	Allowable Wind Pressure (psf)
Double 6	12[1]	(1) Minimum 14-gauge x 5/8" T-Nail or (1) Minimum 9-gauge x 5/8" Stub Nail with 3/8" Diameter Head	8	+83 / -69
			6	+94 / -78
			4	+104 / -86
	16		8	+52 / -58
			6	+52 / -58
			4	+58 / -64
	24		8	+23 / -26
			6	+23 / -26
			4	+26 / -28
Triple 4	12[1]	(1) Minimum 14-gauge x 5/8" T-Nail or (1) Minimum 9-gauge x 5/8" Stub Nail with 3/8" Diameter Head	8	+86 / -78
			6	+86 / -78
			4	+95 / -86

Table 3. Aluminum Soffit Panels Wind Resistance – Masonry Wall[2,3]

Product[4]	Soffit Unsupported Span (in)	Fasteners for F-Channel Attachment to Wall	Fasteners o.c. Spacing into F-Channel (in)	Allowable Wind Pressure (psf)
Triple 4 Continued	16	(1) Minimum 14-gauge x 5/8" T-Nail or (1) Minimum 9-gauge x 5/8" Stub Nail with 3/8" Diameter Head	8	+48 / -55
			6	+48 / -55
			4	+54 / -61
	24		8	+21 / -24
			6	+21 / -24
			4	+24 / -27
Quad 4	12[1]	(1) Minimum 14-gauge x 5/8" T-Nail or (1) Minimum 9-gauge x 5/8" Stub Nail with 3/8" Diameter Head	8	+89 / -80
			6	+89 / -80
			4	+99 / -88
	16		8	+50 / -54
			6	+50 / -54
			4	+56 / -60
	24		8	+20 / -20
			6	+20 / -20
			4	+22 / -22

SI: 1 in = 25.4 mm, 1-psf = 0.0479 kPa

1. The 12" span values are applicable to a 24" overhang distance with a center support.
2. Masonry units shall have a minimum compressive strength of 2,500-psi.
3. The soffit is attached to the wood fascia board with (1) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staple at each groove. BASL Fascia cover attached to wood with (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the wide face, and (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the narrow edge of the fascia board.
4. Allowable wind pressure values are applicable for products listed in **Section 1**.

Table 4. Aluminum Soffit Panels Wind Resistance – J-Channel

Product[5]	Soffit Unsupported Span (in)	Fasteners for J-Channel Attachment[3,4]	Fasteners o.c. Spacing into J-Channel (in)	Allowable Wind Pressure (psf)
Double 6	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	12	+83 / -66
	16			+52 / -60
	24			+23 / -27
Triple 4	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	12	+86 / -66
	16			+48 / -59
	24			+21 / -26
Quad 4	12[1]	(3) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staples	12	+89 / -66
	16			+50 / -55
	24			+20 / -20

SI: 1 in = 25.4 mm, 1-psf = 0.0479 kPa

1. The 12" span values are applicable to a 24" overhang distance with a center support.
2. The soffit is attached to the wood fascia board with (1) 1/4" Crown x 1" Leg, 18-gauge, Galvanized Staple at each groove. BASL Fascia cover attached to wood with (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the wide face, and (1) 0.100" x 1 1/4" Trim Nail spaced 12" o.c. into the narrow edge of the fascia board.
3. Nominal 2" thick blocking shall be fastened onto walls or onto roof framing members. Blocking shall be of a species with a published minimum specific gravity of 0.42 and shall be designed to handle all superimposed loads.
4. Staple groups (of 3) shall be arranged as shown in **Figure 3**.
5. Allowable wind pressure values are applicable for products listed in **Section 1**.

6.2 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 Performance[29]

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.[30]

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.[31]

8 Regulatory Evaluation and Accepted Engineering Practice

8.1 Aluminum Soffit Panels comply with the following legislatively adopted regulations and/or accepted engineering practice for the following reasons:

8.1.1 Aluminum Soffit Panels were evaluated for regulatory compliance in accordance with IBC Section 1412, per IBC Section 1404.1.1.

8.1.2 Aluminum Soffit Panels were evaluated to assess performance against wind loads as specified in IBC Section 1402.3, IBC Section 1412.2, IRC Section R703.1.2, IRC Section R704.1,[32] and IRC Section R704.2.

8.2 *California Wildland-Urban Interface*

8.2.1 Alsco Solid Aluminum Soffit Panels are permitted to be installed in the underside of enclosed roof eaves and soffits under the CWUI Section 504.3[33] and CWUI Section 504.3.1.[34]

8.2.1.1 Alsco Solid Aluminum Soffit Panels are noncombustible in accordance with CWUI Section 501.4.1.[35]

8.2.1.2 Ventilation openings under eaves and cornices, enclosed eave soffit spaces, or any other openings specified in CWUI Section 504.10[36] shall be fully covered with Wildfire Flame and Ember Resistant vents approved and listed by the California State Fire Marshal, or WUI vents tested in accordance with ASTM E2886 per CWUI Section 504.10.1.[37]

8.3 *Florida Compliance (Non-HVHZ)*

8.3.1 Aluminum Soffit Panels are permitted to be installed onto buildings in all regions not classified as High-Velocity Hurricane Zones (HVHZ) as indicated in FBC-B Section 1620 (e.g., Broward and Miami-Dade Counties).

8.4 Any building code, regulation and/or accepted engineering evaluations (e.g., 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 qualified[38] to practice product and regulatory compliance services within its scope of accreditation and engineering expertise,[39] respectively.

8.5 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 Aluminum Soffit Panels shall be installed over minimum single nominal 2 x 4 stud grade dimensional lumber with a minimum published specific gravity of 0.42 and nominal 1 x 4 fascia member of a lumber species with a minimum published specific gravity of 0.42.

9.3.1 Flashing in accordance with the referenced codes in **Section 4** shall be installed at all openings, penetrations, abutments with dissimilar materials, and at terminations of soffit panels.

9.3.2 The strength of the supporting framing, structural sheathing, and the withdrawal strength of the fasteners shall be designed in accordance the referenced codes for the required loads.

9.3.3 Fasteners for attaching the F-Channels shall be minimum 1/4" crown, 1 1/4" leg staples in a fastening group pattern shown in **Figure 3**. Fasteners for attaching the fascia trim shall be minimum 15-gauge trim nails.

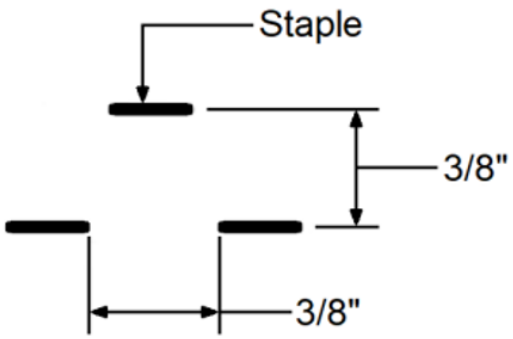


Figure 3. Staple Pattern for Wood Walls

9.3.3.1 Spacing of fastener groups for the F-Channels and spacing of the nails for the fascia trim shall be in accordance with **Table 2** for wood walls. Spacing of fastener groups for the F-Channels and spacing of the nails for the fascia trim shall be in accordance with **Table 3** for masonry walls.

9.4 *Installation Procedure*

9.4.1 *Pre-Installation – Planning Stage:*

9.4.1.1 *Step 1:* First, define the project geometry so quantities and component selections are correct.

9.4.1.1.1 Determine the total wall perimeter length where soffit panels will terminate at the wall-side starter (e.g., F-Channel).

9.4.1.2 *Step 2:* Measure the horizontal overhang width from the exterior wall plane to the outside face of the fascia board.

9.4.1.3 *Step 3:* Measure the total fascia run length and fascia height. Select the appropriate BASL fascia cover size by fascia height. See below:

9.4.1.3.1 BASL4 to cover 4" fascia board

9.4.1.3.2 BASL6 to cover 6" fascia board

9.4.1.3.3 BASL8 to cover 8" fascia board

9.4.1.3.4 BASL10 to cover 10" fascia board

9.4.1.4 *Step 4:* For each corner condition, measure from the outside corner of the building wall to the inside corner of the fascia to determine the Double Channel Runner needs.

9.4.1.4.1 If using vented panels, local code requirements shall be adhered to.

9.4.1.5 See **Figure 4** for more details regarding these measurements. The numbers in the illustration correspond to the step numbers above.

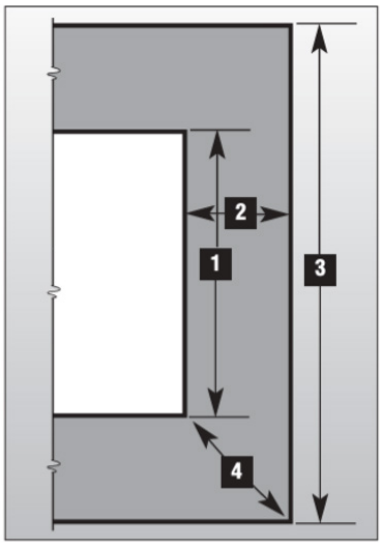


Figure 4. Measurement Diagram

9.4.2 *Soffit Installation:*

9.4.2.1 *F-Channel Step 1:* Snap a chalk line on the wall so that it is level with the bottom edge of the fascia board. Install the F-Channel as detailed in **Table 2** or **Table 3**, so that the bottom is $^{3}/_{8}$" below the chalk line.

9.4.2.2 *J-Channel Step 1:* Where required, install 2 x 4 blocking in between rafters to create a continuous nailing strip. Install the J-Channel as detailed in **Table 4**.

9.4.2.3 *Step 2:* If needed, provide intermediate support where soffit is deep.

9.4.2.3.1 For larger soffit spans (e.g., ≥ 24") or where a higher resistance is required, supplemental midspan support is recommended.

9.4.2.3.1.1 Provide an intermediate support nailer (wood block). Wood blocking shall be fastened with two 0.131" x 3" to the rafter every 8', maximum, along the run.

9.4.2.3.1.2 A continuous 1 x 2 and 1 x 4 stringer shall be fastened to the wood blocking with two 0.131" x 3".

9.4.2.3.1.3 The depth wood blocking and stringer shall be sized to maintain the support elevation where the bottom face of the stringer is level with the starter's top flange plane.

9.4.2.3.2 Product shall be fastened with two $^{1}/_{4}$" x 1" leg, 18-gauge galvanized staples at each groove, $^{1}/_{2}$" apart at the center support (when center support is being used).

9.4.2.4 *Step 3:* Cut soffit panels to length using an appropriate tool (e.g., circular saw, hacksaw). Seat the panel into the F-Channel and align the opposite edge to the bottom of the fascia board for fastening.

9.4.2.4.1 Staple the soffit panel at each groove to the bottom of the fascia board as detailed in **Table 2** or **Table 3**.

9.4.2.5 *Step 4:* For subsequent panels, engage the interlock by inserting the tongue of the next panel into the flange of the installed panel, then repeat fastening and continue along the run.

9.4.2.6 *Step 5:* For corners, trim the Double Channel Runner so that one end is flush with the corner of the building (i.e., a *"V"* configuration) and the other end will be flush with the corner of the overhang (i.e., a *"point"* configuration). Orient and install so that the point end bears to the fascia boards and the *"V"* end bears to the building corner, then fasten into place in accordance with manufacturer installation instructions.

9.4.2.7 *Step 6:* Drill nailing holes in BASL Fascia Cover slightly larger than the nail being used. Nail through the drilled holes.

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 Transverse load tests in accordance with ASTM E330

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.[40]

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

11 Findings

11.1 As outlined in **Section 6**, Aluminum Soffit Panels have 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, Aluminum Soffit Panels shall be approved for the following applications:

11.2.1 Use in enclosed eaves or open eaves.

11.3 Unless exempt by state statute, when Aluminum Soffit Panels are 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 Alsco Aluminum Building Products.

11.5 IBC Section 104.2.3[41] (IRC Section R104.2.2[42] and IFC Section 104.2.3[43] 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:**[44] Building regulations require that the building official shall accept duly authenticated reports.[45]

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.[46]

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, Aluminum Soffit Panels shall be subjected to the following conditions:

12.2.1 Aluminum Soffit Panels shall be installed onto substrates capable of supporting the imposed wind loads.

12.2.1.1 Design of the substrate and framing is outside the scope of this report.

12.2.1.2 Wood substrate (framing) shall be of species with a minimum specific gravity of 0.42.

12.2.1.3 Concrete/CMU shall have a minimum compressive strength, f_c', of 2,500-psi.

12.2.1.4 All metals in contact with Alsco Aluminum Soffit Panels shall either be an alloy approved for direct aluminum contact or isolated from the aluminum by an approved coating.

12.2.1.5 Soffit spaces shall be weather-protected in accordance with the applicable codes.

12.3 In Florida, Alsco Aluminum Soffit Panels shall be used in non-HVHZ regions.

12.4 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:

12.4.1 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.

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

12.4.3 These innovative products have an internal quality control program and a third-party quality assurance program.

12.4.4 At a minimum, these innovative products shall be installed per **Section 9**.

12.4.5 The review of this report by the AHJ shall comply with IBC Section 104.2.3.2 and IBC Section 105.3.1.

12.4.6 These innovative products have 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.

12.4.7 The application of these innovative products 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.

12.5 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.

12.6 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).

12.7 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 Aluminum Soffit Panels, as listed in **Section 1**, are 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 alscometals.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.

Issue Date: May 7, 2026
Supplement Revision Date: May 7, 2026
Subject to Renewal: July 1, 2027

FBC Supplement to Report Number 2509-108

REPORT HOLDER: Alsco® Aluminum Building Products

1 Evaluation Subject

1.1 Alsco® Aluminum Soffit Panels:

1.1.1 Double 6 Profile:

1.1.1.1 Solid: AVBS12

1.1.1.2 Vented: APERFD6

1.1.2 Triple 4 Profile:

1.1.2.1 Solid: VBT4S12, T4S12

1.1.2.2 Center Vented: VBT4CV12, T4CV12

1.1.2.3 Fully Vented: VBT4V12, T4V12

1.1.3 Quad 4 Profile:

1.1.3.1 Stealth: A-HV16

1.1.3.2 Fully Vented Economy: ECNQ4V16

1.1.3.3 Solid: Q4S16

1.1.3.4 Center Vented: Q4CV16

1.1.3.5 Fully Vented: Q4V16

2 Purpose and Scope

2.1 Purpose

2.1.1 The purpose of this Report Supplement is to show Alsco® Aluminum Soffit Panels, recognized in Report Number 2509-108, have 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 (FL 48211)*

2.2.2 *FBC-R—20, 23: Florida Building Code – Residential (FL 48211)*

3 Conclusions

3.1 Alsco® Aluminum Soffit Panels, described in Report Number 2509-108, comply with the FBC-B and FBC-R and are 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 is reserved.

3.2.2 FBC-B Section 110.4 is reserved and replaces IBC Section 110.4.

3.2.3 FBC-B Section 104.6 is reserved and replaces IBC Section 104.4.

3.2.4 FBC-B Section 104.11 replaces IBC Section 104.2.3 and Section 104.2.3.2.

3.2.5 FBC-B Section 105.3 replaces IBC Section 105.3.

3.2.6 FBC-B Section 105.3.1 replaces IBC Section 105.3.1.

3.2.7 FBC-B Section 110.3 replaces IBC Section 110.3.

3.2.8 FBC-B Section 1403.3 replaces IBC Section 1402.3.

3.2.9 FBC-B Section 1405.1.1 replaces IBC Section 1404.1.1.

3.2.10 FBC-B Section 1410 replaces IBC Section 1412.

3.2.11 FBC-B Section 1410.2 replaces IBC Section 1412.2.

3.2.12 FBC-B Section 1707.1 replaces IBC Section 1707.1.

3.2.13 FBC-B Section 2306.1 replaces IBC Section 2306.1.

3.2.14 FBC-B Section 2306.3 replaces IBC Section 2306.3.

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

3.2.16 FBC-R Section R703.1.2 replaces IRC Section R703.1.2.

3.2.17 FBC-R Section R704.1 replaces IRC Section R704.1.

3.2.18 FBC-R Section R704.2 replaces IRC Section R704.2.

4 Conditions of Use

4.1 Alsco® Aluminum Soffit Panels, described in Report Number 2509-108, must comply with all of the following conditions:

4.1.1 All applicable sections in Report Number 2509-108.

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

Issue Date: May 7, 2026
Supplement Revision Date: May 19, 2026
Subject to Renewal: July 1, 2027

CBC and CRC Supplement to Report Number 2509-108

REPORT HOLDER: Alsco® Aluminum Building Products

1 Evaluation Subject

1.1 Alsco® Aluminum Soffit Panels:

1.1.1 Double 6 Profile:

1.1.1.1 Solid: AVBS12

1.1.1.2 Vented: APERFD6

1.1.2 Triple 4 Profile:

1.1.2.1 Solid: VBT4S12, T4S12

1.1.2.2 Center Vented: VBT4CV12, T4CV12

1.1.2.3 Fully Vented: VBT4V12, T4V12

1.1.3 Quad 4 Profile:

1.1.3.1 Stealth: A-HV16

1.1.3.2 Fully Vented Economy: ECNQ4V16

1.1.3.3 Solid: Q4S16

1.1.3.4 Center Vented: Q4CV16

1.1.4 Fully Vented: Q4V16

2 Purpose and Scope

2.1 Purpose

2.1.1 The purpose of this Report Supplement is to show Alsco® Aluminum Soffit Panels, recognized in Report Number 2509-108 have also been evaluated for compliance with the codes listed below.

2.2 *Applicable Code Editions*

2.2.1 *CBC — 22, 25: California Building Code (Title 24, Part 2)*

2.2.2 *CRC — 22, 25: California Residential Code (Title 24, Part 2.5)*

3 Conclusions

3.1 Alsco® Aluminum Soffit Panels, described in Report Number 2509-108, comply with the CBC and CRC and are subject to the conditions of use described in this supplement.

3.2 Where there are variations between the IBC and IRC and the CBC and CRC applicable to this report, they are listed here:

3.2.1 CBC Section 104.11 replaces IBC Section 104.2.3 and IBC Section 104.2.3.2.

3.2.2 CBC Section 104.7 replaces IBC Section 104.7.2.

3.2.3 CBC Section 1404.2 replaces IBC Section 1403.2.

3.2.4 CBC Section 1405.1.1 replaces IBC Section 1404.1.1.

3.2.5 CBC Section 1410 replaces IBC Section 1412.

3.2.6 CBC Section 1410.2 replaces IBC Section 1412.2.

3.2.7 CBC Section 1707.1 replaces IBC Section 1707.1.

3.2.8 CRC Section R104.4 replaces IRC Section R104.7.2.

3.2.9 CRC Section R104.11 replaces IRC Section R104.2.2.

3.2.10 CRC Section R703.2 replaces IRC Section R703.2.

3.2.11 CRC Section R704.1 replaces IRC Section R704.1 and IRC Section R704.2.

4 Conditions of Use

4.1 Alsco® Aluminum Soffit Panels, described in Report Number 2509-108, must comply with all of the following conditions:

4.1.1 All applicable sections in Report Number 2509-108.

4.1.2 The design, installation, and inspections are in accordance with additional requirements of CBC and CRC, as applicable.

Notes

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

2 Capitalized terms and responsibilities are defined pursuant to the applicable building code, applicable reference standards, the latest edition of TPI 1, the NDS, AISI S202, US professional engineering law, Canadian building code, Canada professional engineering law, Qualtim External Appendix A: Definitions/Commentary, Qualtim External Appendix B: Project/Deliverables, Qualtim External Appendix C: Intellectual Property and Trade Secrets, definitions created within Design Drawings and/or definitions within Reference Sheets. Beyond this, terms not defined shall have ordinarily accepted meanings as the context implies. Words used in the present tense include the future; words stated in the masculine gender include the feminine and neuter; the singular number includes the plural and the plural, the singular.

3 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1702

4 Alternative Materials, Design and Methods of Construction and Equipment: The provisions of any regulation code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by a regulation. Please review https://www.justice.gov/atr/mission and https://up.codes/viewer/mississippi/ibc-2024/chapter/1/scope-and-administration#104.2.3

5 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.2:~:text=the%20design%20strengths%20and%20permissible%20stresses%20shall%20be%20established%20by%20tests

6 The design strengths and permissible stresses of any structural material shall conform to the specifications and methods of design of accepted engineering practice. https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1706.1:~:text=Conformance%20to%20Standards-,The%20design%20strengths%20and%20permissible%20stresses,-of%20any%20structural

7 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1:~:text=the%20building%20official%20shall%20make%2C%20or%20cause%20to%20be%20made%2C%20the%20necessary%20tests%20and%20investigations%3B%20or%20the%20building%20official%20shall%20accept%20duly%20authenticated%20reports%20from%20approved%20agencies%20in%20respect%20to%20the%20quality%20and%20manner%20of%20use%20of%20new%20materials%20or%20assemblies%20as%20provided%20for%20in%20Section%20104.2.3.

8 https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1703.4.2

9 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_agency

10 https://up.codes/viewer/mississippi/ibc-2024/chapter/2/definitions#approved_source

11 https://www.law.cornell.edu/uscode/text/18/1832 (b) Any organization that commits any offense described in subsection (a) shall be fined not more than the greater of $5,000,000 or 3 times the value of the stolen trade secret to the organization, including expenses for research and design and other costs of reproducing the trade secret that the organization has thereby avoided. The federal government and each state have a public records act. To follow DTSA and comply state public records and trade secret legislation requires approval through ANAB ISO/IEC 17065 accredited certification bodies or approved sources. For more information, please review this website: Intellectual Property and Trade Secrets.

12 https://www.nspe.org/resources/issues-and-advocacy/professional-policies-and-position-statements/regulation-professional AND https://apassociation.org/list-of-engineering-boards-in-each-state-archive/

13 https://www.cbitest.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-mla/#:~:text=Once%20an%20accreditation%20body%20is%20a%20signatory%20of%20the%20IAF%20MLA%2C%20it%20is%20required%20to%20recognise%20certificates%20and%20validation%20and%20verification%20statements%20issued%20by%20conformity%20assessment%20bodies%20accredited%20by%20all%20other%20signatories%20of%20the%20IAF%20MLA%2C%20with%20the%20appropriate%20scope

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

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

20 Unless otherwise noted, the links referenced herein use un-amended versions of the 2024 International Code Council (ICC) 2024 International Code Council (ICC) model codes as foundation references. Mississippi versions of the IBC 2024 and the IRC 2024 are un-amended. This material, product, design, service and/or method of construction also complies with the 2000-2012 versions of the referenced codes and the standards referenced therein. As pertinent to this technical and code compliance evaluation, CBI and/or DrJ staff have reviewed any state or local regulatory amendments to assure this report is in compliance.

21 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by the local jurisdiction. https://up.codes/codes/general

22 See Adoptions by Publisher for the latest adoption of a non-amended or amended model code by state. https://up.codes/codes/general

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

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

25 All references to the FBC-B and FBC-R are the same as the 2024 IBC and 2024 IRC unless otherwise noted in the Florida Supplement at the end of this report.

26 All references to the CBC and CRC are the same as the 2024 IBC and 2024 IRC unless otherwise noted in the California Supplement at the end of this report.

27 All references to the CWUI are the same as the 2021 CBC unless otherwise noted in the California Supplement at the end of this report.

28 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

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

30 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

[31] 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

[32] 2021 IRC Section R703.3.2

[33] 2022 CBC Section 707A.6

[34] 2022 CBC Section 707A.5

[35] 2022 CBC Section 202 - Noncombustible [SFM]

[36] 2022 CBC Section 706A.1

[37] 2022 CBC Section 706A.2

[38] 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.

[39] https://anabpd.ansi.org/Accreditation/product-certification/AllDirectoryDetails?prgID=1&orgID=2125&statusID=4#:~:text=Bill%20Payment%20Date-,Accredited%20Scopes,-13%20ENVIRONMENT.%20HEALTH

[40] 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

[41] 2021 IBC Section 104.11

[42] 2021 IRC Section R104.11

[43] 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

[44] 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.

[45] https://up.codes/viewer/mississippi/ibc-2024/chapter/17/special-inspections-and-tests#1707.1

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