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Revision Date: 05-11-2026
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DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 41 13 – Metal Wall Panels

REPORT HOLDER:
Vicwest Inc.
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REPORT SUBJECT:
Plank 90, Plank 135, Plank 200, Lap Siding 155, Board & Batten 140, Board & Batten 260, AD300, and AD300R Steel Siding

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, and 2018 *International Building Code*® (IBC)
- 2024, 2021, and 2018 *International Residential Code*® (IRC)
- 2023 *Florida Building Code* (excluding High-Velocity-Hurricane Zones (HVHZ)) (see Section 9)

1.2 The steel sidings have been evaluated for the following properties (see Table 1):

- Physical properties
- Surface burning characteristics
- Non-combustibility
- Wind resistance

1.3 The steel sidings have been evaluated for the following uses (see Table 1):

- Exterior wall cladding in Types I, II, III, IV, and V construction

2.0 STATEMENT OF COMPLIANCE

The Plank 90, Plank 135, Plank 200, Lap Siding 155, Board & Batten 140, Board & Batten 260, AD300, and AD300R steel sidings comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.0.

3.0 DESCRIPTION

Plank 90, Plank 135, and Plank 200 are interlocking lap sidings formed from either pre-painted galvanized or galvalume steel. The steel sheets are available in 26 GA and 24 GA thicknesses and coated with either PVDF or SMP paint system. The sidings are available in three different profiles namely Plank 90, Plank 135, and Plank 200.

Lap Siding 155, Board & Batten 140, and Board & Batten 260 are interlocking lap sidings formed from either pre-painted galvanized or galvalume steel. The steel sheets are available in 26 GA thickness and coated with either PVDF or SMP paint system.

AD300 and AD300R are interlocking lap sidings formed from either pre-painted galvanized or galvalume steel. The steel sheets available in 22 GA and 20 GA thicknesses and coated with either PVDF or SMP paint system.

Refer to Tables 2 and 3 for specifications of the steel siding profiles.

4.0 PERFORMANCE CHARACTERISTICS

4.1 The panels evaluated in this report have a flame spread index of 25 or less and smoke developed index of 450 or less when tested in accordance with ASTM E84. The panels comply with the Exception in IBC Section 703.3.1 and are deemed non-combustible.

4.2 **Wind Resistance:** When installed as described in this report, the panels have an allowable negative wind pressure as denoted in Tables 4 through 11 at the end of this report.

5.0 INSTALLATION

5.1 **General:** Plank 90, Plank 135, Plank 200, Lap Siding 155, Board & Batten 140, Board & Batten 260, AD300, and AD300R steel sidings must be installed in accordance with the manufacturer's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.



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5.2 Application: The sidings may be oriented horizontally or vertically; Board & Batten sidings must be oriented vertically.

The panels must be perpendicular to the structural framing complying with the Code. Framing members must be specified by design and must be justified by engineering analysis. For Plank, Lap, and Board & Batten sidings, the panels must be attached to steel framing using minimum #10 corrosion-resistant, self-drilling pancake-head screws (0.46 in. head diameter), fully penetrating through the steel framing, at each framing member and at the maximum spans noted in the tables at the end of this report. For AD300 and AD300R sidings, the panels must be attached to steel framing using minimum 1/4 x 3/4 in. corrosion-resistant, self-drilling, hex washer-head (1/2 in. integral washer diameter) screws for panel side-lap stitching and with minimum 1/4 in. corrosion-resistant, self-drilling, hex washer-head screws (1/2 in. integral washer diameter), fully penetrating the steel framing, at each framing member and at the maximum spans noted in the tables at the end of this report. For use of any other corrosion-resistant fastener, fastener spacing, or framing material, calculations performed by a registered design professional shall be provided to the building official.

A water-resistive barrier complying with IBC Section 1403.2 must be installed behind the panels and must be installed as required by that section of the Code.

For use in exterior walls on buildings of Types I, II, III, or IV construction (IBC) that are greater than 40 feet, evidence the combustible insulation and combustible water-resistive barrier comply with IBC Section 1402.5, or a report of testing in accordance with NFPA 285 for an assembly representative of the final construction, must be submitted to the building official.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Structural calculations demonstrating that applied loads are less than the allowable loads must be submitted to the local building official for approval.

6.3 The approval of the structural substrate to which the panels are attached is beyond the scope of this report.

6.4 A licensed design professional shall analyze the fasteners for pullout for use atop the specified framing. The framing shall be verified by the structural plan examiner.

6.5 Use of the panels as bracing against lateral wind or earthquake forces is outside the scope of this report.

6.6 The panels are manufactured under a quality control program with inspections by Intertek Testing Services NA, Ltd.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM E1592 and ASTM E84.

7.2 Intertek Listing Report "Vicwest – Steel Sidings", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The Plank 90, Plank 135, Plank 200, Lap Siding 155, Board & Batten 140, Board & Batten 260, AD300, and AD300R steel sidings are identified with the manufacturer's name (Vicwest Inc.), the product name, profile number, batch number, the Intertek Mark as shown below, the Intertek Control Number, and the Code Compliance Research Report number (CCRR-0535).



9.0 OTHER CODES

9.1 Florida Building Code: The Plank 90, Plank 135, Plank 200, Lap Siding 155, Board & Batten 140, Board & Batten 260, AD300, and AD300R steel sidings, described in Sections 2.0 through 8.0 of this Research Report, comply with the 2023 *Florida Building Code – Building* and *Florida Building Code – Residential*, subject to the following conditions:





- Use of the sidings for compliance with the High-Velocity Hurricane Zone provisions of the 2023 *Florida Building Code – Building* and the *Florida Building Code – Residential* has not been evaluated and is outside the scope of this Research Report.
- For use in exterior walls on buildings of Types I, II, III, or IV construction (FBC – Building) that are greater than 40 feet, evidence the combustible insulation and combustible water-resistive barrier comply with *Florida Building Code – Building* Section 1403.5, or a report of testing in accordance with NFPA 285 for an assembly representative of the final construction, must be submitted to the building official.

Intertek is an approved evaluation entity and quality assurance entity pursuant to Florida Statute 553.842 – *Product Evaluation and Approval*.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.

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TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2024 IBC SECTION ¹	2024 IRC SECTION ¹	2023 FBC – BUILDING SECTION	2023 FBC – RESIDENTIAL SECTION
Physical Properties	1404.2 1404.12	R703.3	1405.2 1405.11	R703.3
Wind Resistance	1402.3	R703.1.2	1403.3	R703.1.2
Types I, II, III, and IV Construction	1402.5	N/A	1403.5	N/A
Non-combustibility	703.3.1	N/A	703.5.1	N/A

¹Section numbers may be different for earlier versions of the International Codes

TABLE 2 – PLANK, LAP, AND BOARD AND BATTEN STEEL SIDING SPECIFICATIONS

PROPERTY	PLANK 90	PLANK 135	PLANK 135	PLANK 200	LAP SIDING 155	BOARD & BATTEN 140	BOARD & BATTEN 260
Profile #	600104	600105	600101	600106	603001	602001	602101
Thickness (ga)	26 and 24	26 and 24	24	26 and 24	26	26	26
Length	12 ft.						
Height	0.609 in.				0.741 in.	0.727 in.	
Exposure Width/ Coverage	3.64 in.	5.34 in.	5.38 in.	7.84 in.	6.18 in.	5.60 in.	10.18 in.
Overall Width	5.62 in.	7.31 in.	7.32 in.	9.81 in.	7.48 in.	6.90 in.	11.48 in.



Plank 90



Plank 135



Plank 200



Lap Siding 155



Board & Batten 140



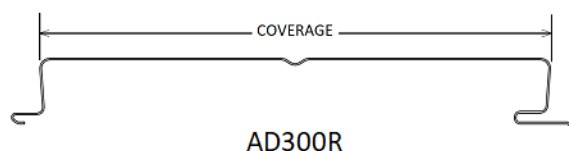
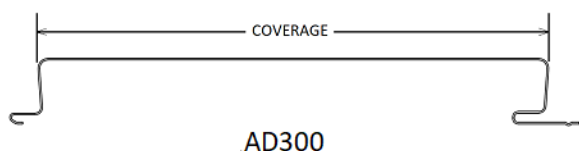
Board & Batten 260





TABLE 3 – AD300 AND AD300R STEEL SIDING SPECIFICATIONS

PROPERTY	AD300	AD300R
Profile #	01523	05120
Thickness (GA)	22 and 20	
Length	Maximum 40 ft.	
Height	1.51 in.	
Exposure Width/ Coverage	11.81 in.	
Overall Width	13.23 in.	

**Notes to Tables 4 to 10**

- Negative wind pressure values are uniformly distributed negative loads for multiple span conditions (≥ 3 spans).
- Negative wind pressure values are for installation with minimum #10 corrosion-resistant, self-drilling, pancake-head screws (0.46 in. head diameter) fully penetrating through the steel framing. For use of any other corrosion-resistant fastener size, type, spacing, or other framing material, they must be designed by a registered design professional, in which case, calculations and details must be approved by the local building official.
- Allowable negative wind pressures were determined based on steel yield strengths (F_y) of 40 ksi and 33 ksi, and the ultimate negative wind pressures divided by safety factor of 2.0 in accordance with Section I6.3.1 of AISI S100-16(2020) w/S2-20 and AISI S100-16.
- Allowable negative wind pressures determined from ASTM E1592 tests are limited to the assembly of steel panels and fastener and do not include flashing, sealants, supporting substrate, and insulation.
- Contact Vicwest, Inc. for project specific calculations.

TABLE 4 – PLANK 90 (PROFILE #600104)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		$F_y = 40$ ksi	$F_y = 33$ ksi
26 GA	40	58	48
	16	111	92
24 GA	40	84	70
	16	156	128





TABLE 5 – PLANK 135 (PROFILE #600105)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
26 GA	40	44	37
	16	90	74
24 GA	40	69	57
	16	132	109

TABLE 6 – PLANK 135 (PROFILE #600101)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
24 GA	40	67	55
	16	116	95

TABLE 7 – PLANK 200 (PROFILE #600106)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
26 GA	40	24	20
	16	58	48
24 GA	40	47	39
	16	98	81

TABLE 8 – LAP SIDING 155 (PROFILE #603001)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
26 GA	16	102	84

TABLE 9 – BOARD & BATTEN 140 (PROFILE #602001)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
26 GA	40	40	33
	16	111	92



TABLE 10 – BOARD & BATTEN 260 (PROFILE #602101)

PANEL THICKNESS	SUPPORT/PURLIN SPACING (in.)	ALLOWABLE NEGATIVE WIND PRESSURE (psf)	
		F _y = 40 ksi	F _y = 33 ksi
26 GA	40	36	30
	16	58	48

Notes to Table 11

- Negative wind pressure values are uniformly distributed negative loads for multiple span conditions (≥ 3 spans).
- Negative wind pressure values are for installation with minimum 1/4 x 3/4 in. corrosion-resistant, self-drilling, hex washer head (1/2 in. integral washer diameter) screws for panel side-lap stitching and with minimum 1/4-in. corrosion-resistant, self-drilling, hex washer head screws (1/2 in. integral washer diameter) fully penetrating through the steel framing. For use of any other corrosion-resistant fastener size, type, spacing or other framing material, they must be designed by a registered design professional, in which case, calculations and details must be approved by the local building official.
- Allowable negative wind pressures were determined based on steel yield strengths (F_y) of 40 ksi and 33 ksi, and the ultimate negative wind pressures divided by safety factor of 2.0 in accordance with Section I6.3.1 of AISI S100-16(2020) w/S2-20 and AISI S100-16.
- Allowable negative wind pressures determined from ASTM E1592 tests are limited to the assembly of steel panels and fastener and do not include flashing, sealants, supporting substrate, and insulation.
- Contact Vicwest, Inc. for project specific calculations.

TABLE 11 – AD300 (PROFILE #05123) AND AD300R (PROFILE #05120)

ALLOWABLE NEGATIVE WIND PRESSURE (psf) (F _y = 40 ksi)	SUPPORT/PURLIN SPACING (ft.), WITHOUT SIDE-LAP STITCH SCREW						
	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	35.0	33.7	32.4	31.1	29.8	28.5	27.2
	SUPPORT/PURLIN SPACING AND SIDE-LAP STITCH SCREW SPACING (ft.)						
	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	112.8	102.4	92.1	81.7	71.3	61.0	50.6

ALLOWABLE NEGATIVE WIND PRESSURE (psf) (F _y = 33 ksi)	SUPPORT/PURLIN SPACING (ft.), WITHOUT SIDE-LAP STITCH SCREW						
	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	28.9	27.8	26.8	25.7	24.6	23.6	22.5
	SUPPORT/PURLIN SPACING AND SIDE-LAP STITCH SCREW SPACING (ft.)						
	1.0	1.5	2.0	2.5	3.0	3.5	4.0
	93.1	84.5	76.0	67.4	58.8	50.3	41.7

