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**DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION**

**Section: 07 41 13 Metal Roof Panels**

**REPORT HOLDER:**

Vicwest Inc.  
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Canada  
[www.vicwest.com](http://www.vicwest.com)

**REPORT SUBJECT:**

**True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels**

### 1.0 SCOPE OF EVALUATION

**1.1** This Research Report addresses compliance with the following Codes:

- 2021, 2018, and 2015 *International Building Code*® (IBC)
- 2021, 2018, and 2015 *International Residential Code*® (IRC)

**1.2** True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels have been evaluated for the following properties (see Table 1):

- Fire Classification
- Wind Resistance

**1.3** True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels have been evaluated for the following uses (see Table 1):

- Metal roof panels complying with the requirements of Section 1507.4 of the IBC, and Section R905.10 of the IRC. The Slate, Shake, and Coastal Wave Metal Roof Panels shall be installed on roofs having a slope of 3:12 or greater.
- The roof panels may be used as components of classified assemblies when installed as described in this report.

### 2.0 STATEMENT OF COMPLIANCE

True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels 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

True Nature North Ridge Slate Metal Roof Panel is pressure-formed from pre-painted 28-gauge, AZ50 Galvalume coated steel. The sheet steel is coated with a Polyvinylidene Fluoride paint system. It has an overall length of 50-11/16 in. and overall width of 13-9/16 in. See Figure 1.

True Nature Cedar Creek Shake Metal Roof Panel is pressure-formed from pre-painted 28-gauge or 26-gauge, AZ50 Galvalume coated steel. The sheet steel is coated with a Polyvinylidene Fluoride paint system. It has an overall length of 50-3/4 in. and overall width of 13-9/16 in. See Figure 2.

True Nature Coastal Wave Metal Roof Panel is pressure-formed from pre-painted 28-gauge or 26-gauge, AZ50 Galvalume coated steel. The exposed surface is coated with a Polyvinylidene Fluoride paint system. The sheathing surface is protected by a rust-resistant acrylic seal coat. It has an overall length of 55-1/8 in. and an overall width of 15-15/16 in. See Figure 3.

### 4.0 PERFORMANCE CHARACTERISTICS

**4.1 Fire Classification:** True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels have Class A rating when tested in accordance with ASTM E108. See Table 2 for roof assembly details.

**4.2 Wind Uplift Resistance:** Maximum allowable design pressures are shown in Table 3 for the Slate, Shake and Coastal Wave Panels when tested in accordance with UL 1897. Values are based on the allowable stress design (ASD) and include safety factors specified in ICC-ES AC166.



## 5.0 INSTALLATION

**5.1 General:** True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels must be installed in accordance with Section 1507.4 of the IBC, R905.10 of the IRC, 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.

**5.2 Application:** The True Nature North Ridge Slate, True Nature Cedar Creek, and True Nature Coastal Wave Shake Metal Roof Panels are installed on roofs having a minimum slope of 3:12 (25 percent) per IBC Section 1507.4.2. The roof panels are attached directly to the roof decks referenced in Tables 2 and 3 of this report.

## 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** The allowable wind uplift resistance listed in Table 3 is for the metal panels only. The roof deck and framing to which the metal panels are attached must be designed for components and cladding pressures in accordance with Section 1609 of the IBC and Section R301.2.1 of the IRC.

**6.3** The True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

## 7.0 SUPPORTING EVIDENCE

**7.1** Reports of tests in accordance with ASTM E108, Standard Test Methods for Fire Tests of Roof Coverings.

**7.2** Reports of tests in accordance with UL 1897, Standard for Safety: Uplift Tests for Roof Covering Systems.

**7.3** Reports of testing in accordance with ICC-ES AC166, Acceptance Criteria for Metal Roof Coverings, approved February 2021.

**7.4** Intertek Listing Report "Vicwest – Metal Roof Panels", on the [Intertek Directory of Building Products](#).

**7.5** Manufacturer's drawings and installation instructions.

## 8.0 IDENTIFICATION

The True Nature North Ridge Slate, True Nature Cedar Creek Shake, and True Nature Coastal Wave Metal Roof Panels are identified with the manufacturer's name (Vicwest Inc.), address and telephone number, the product name, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0416).



## 9.0 OTHER CODES

This section is not applicable.

## 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	IBC 2021	IRC 2021
Fire Classification	1505	R902
Wind Resistance	1504.4.3	R905.4.4.1

Referenced Sections apply to the latest Code Editions referenced in Section 1.0 of this report

TABLE 2 – FIRE CLASSIFICATION

SYSTEM	ROOF SLOPE	DECK <sup>1</sup>	UNDERLAYMENT	METAL PANEL	ROOF CLASS
1	Min. 3:12 Max. Unlimited	¼ in. thick Densdeck coverboard installed over minimum ½ in. thick exterior grade plywood complying with APA PS-1	1 layer of synthetic roofing underlayment certified to ICC-ES AC188 with a minimum weight of 3.37 lbs per 100 sq. ft	North Ridge Slate or Cedar Creek Shake or Coastal Wave	Class A

<sup>1</sup> See Section 5.2.

Table 3 – WIND UPLIFT RESISTANCE AND CONSTRUCTION DETAILS

METAL ROOF PANEL	SYSTEM CONFIGURATION <sup>1</sup>	ALLOWABLE WIND RESISTANCE <sup>2</sup>
28-ga North Ridge Slate or 28-ga Cedar Creek Shake	Panels attached to min. 15/32 in. plywood with seven (7) #10 x 1-1/2 in. Master Gripper screws per panel	60 psf
28-ga North Ridge Slate or 28-ga Cedar Creek Shake	Panels attached to min. 15/32 in. plywood with four (4) #10 x 1-1/2 in. Master Gripper screws per panel	45 psf
28-ga Coastal Wave	Panels attached to min. 15/32 in. plywood with seven (7) #10 x 2.5 in. panhead screws placed at each low rib along the back shelf of the panel. Panels to be stitched through the nose at the high rib with seven (7) #8 x 3/4 in. HWH screws. Side laps to be staggered one-half panel from the preceding course.	112.5 psf
28-ga Coastal Wave	Panels attached to min. 15/32 in. plywood with four (4) #10 x 2.5 in. panhead screws placed at each low rib along the back shelf of the panel. Panels to be stitched through the nose at the high rib with seven (7) #8 x 3/4 in. HWH screws. Side laps to be staggered one-half panel from the preceding course.	67.5 psf



Table 3 – WIND UPLIFT RESISTANCE AND CONSTRUCTION DETAILS, *Continued*

METAL ROOF PANEL	SYSTEM CONFIGURATION <sup>1</sup>	ALLOWABLE WIND RESISTANCE <sup>2</sup>
28-ga Coastal Wave	Panels attached to min. 7/16 in. OSB sheathing with seven (7) #10 x 2.5 in. panhead screws placed at each low rib along the back shelf of the panel. Panels to be stitched through the nose at the high rib with seven (7) #8 x 3/4 in. HWH screws. Side laps to be staggered one-half panel from the preceding course.	82.5 psf
26-ga Coastal Wave	Panels attached to min. 15/32 in. plywood with seven (7) #10 x 2.5 in. panhead screws placed at each low rib along the back shelf of the panel. Panels to be stitched through the nose at the high rib with seven (7) #8 x 3/4 in. HWH screws. Side laps to be staggered one-half panel from the preceding course.	71 psf
26-ga Coastal Wave	Panels attached to min. 15/32 in. plywood with fourteen (14) #10 x 2.5 in. panhead screws placed at each low rib along the back shelf of the panel. Panels to be stitched through the nose at the high rib with fourteen (14) #8 x 3/4 in. HWH screws. Side laps to be staggered one-half panel from the preceding course.	153.5 psf
26-ga Cedar Creek Shake	Panels attached to min. 15/32 in. plywood with seven (7) #10 x 1.5 in. HWH screws placed along the fastening flange beginning 2 in. from the edge. Panels applied in courses by interlocking the headlap and sidelap to adjacent panels. Sidelaps offset a minimum 11 in. from the previous course; perimeter specimen fastened approx. 4 in. oc.	90 psf
26-ga Cedar Creek Shake	Panels attached to min. 15/32 in. plywood with thirteen (13) #10 x 1.5 in. HWH screws placed along the fastening flange beginning 2 in. from the edge. Panels applied in courses by interlocking the headlap and sidelap to adjacent panels. Sidelaps offset a minimum 11 in. from the previous course; perimeter specimen fastened approx. 4 in. oc.	112.5 psf

<sup>1</sup>For any component added to the system configuration, the fastener shank length shall be sufficient to penetrate through the roof sheathing or penetrate a minimum of 3/4 in. into the roof sheathing.

<sup>2</sup>Allowable uplift resistance values are based on the allowable stress design (ASD) and include safety factors as specified in ICC-ES AC166.

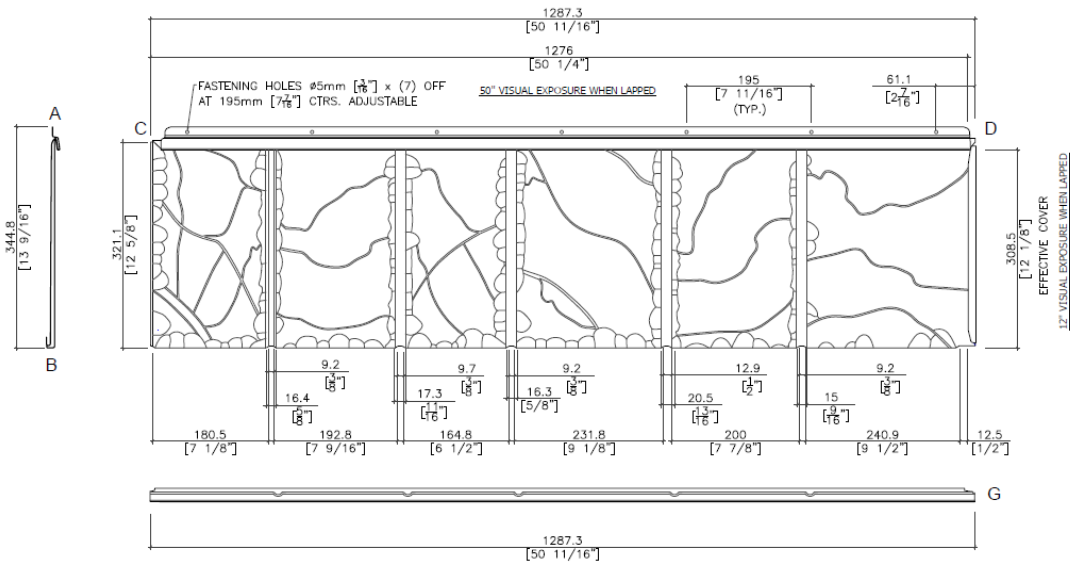


Figure 1 – True Nature North Ridge Slate Metal Roof Panel Drawing

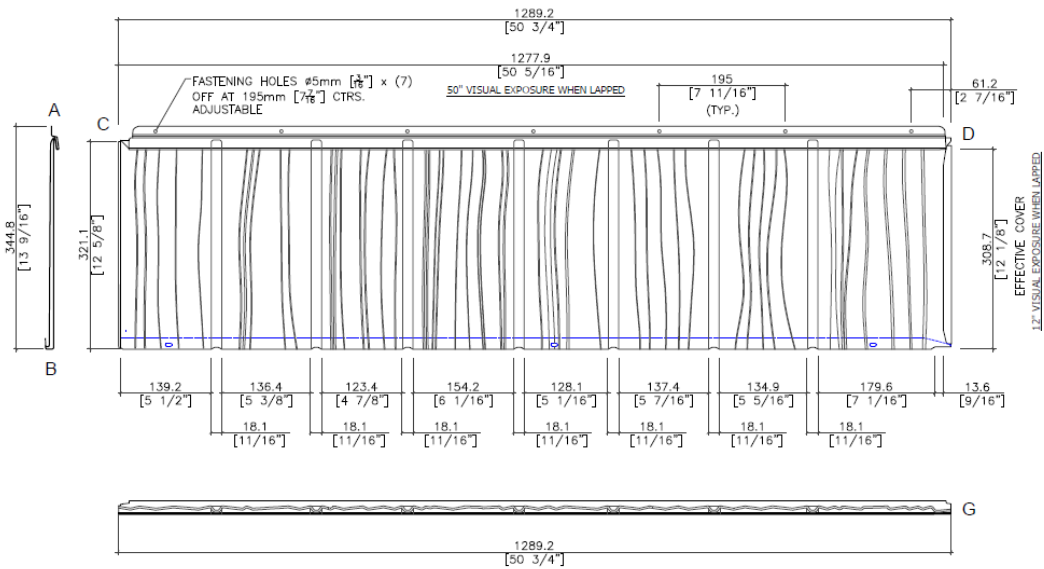


Figure 2 – True Nature Cedar Creek Shake Metal Roof Panel Drawing

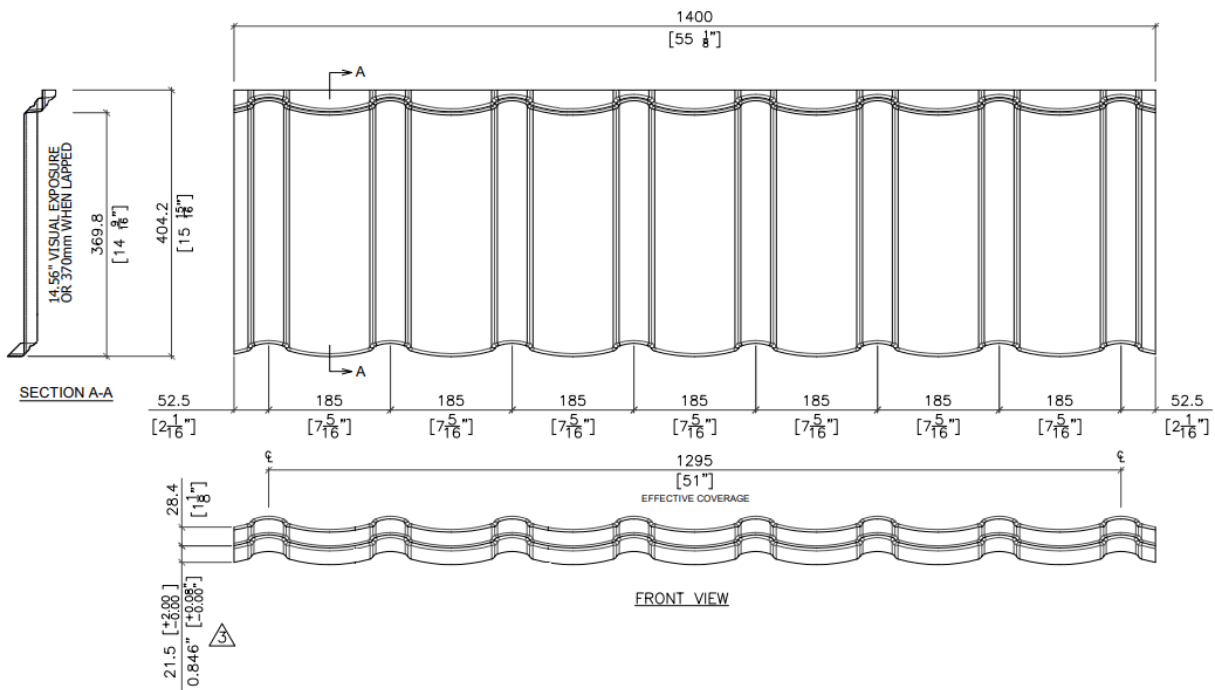


Figure 3 – True Nature Coastal Wave Metal Roof Panel Drawing