# TDI | Texas Department of Insurance

# Product Evaluation

RC697 | 0622

## Engineering Services Program

**Evaluation ID:** RC-697

**Effective Date:** June 1, 2022
**Re-evaluation Date:** June 2026

**Product Name:** Cedar Creek Shake and North Ridge Slate Steel Roofing Tiles Installed Over a Solid Wood Structural Panel Roof Deck

**Manufacturer:** VICWEST
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Unit 220
Burlington, ON Canada L7L 5Y7
(905) 897-2808

**General Description:**
The Cedar Creek Shake and the North Ridge Slate roofing tiles are minimum 28-gauge steel roofing tiles. The tiles have a width of 12", a length of 51", and a depth of 9/16". Each tile is available in a variety of colors.

**Limitations:**
**Roof Slope:** The roofing panels must not be installed on roofs with a roof slope less than 3:12.

**Roof Framing:** The maximum spacing of the roof framing members is 24" on center.

**Roof Deck:**
The roof deck must be solidly sheathed with wood structural panels. Refer to Table 1 for specific sheathing requirements.

**Roof Deck Attachment:** The roof deck must be secured to the roof framing to resist the required wind uplift design pressures.

**Design Pressure:** The design uplift wind load resistance must be as specified in Table 1.

**Table 1.** Cedar Creek Shake and North Ridge Slate Steel Roofing Tiles Installed over a Wood Structural Panel Roof Deck

| System | Panel Thickness | Roof Deck Type | Allowable Design Pressure Rating (psf) |
|---|---|---|---|
| 1 | 28-gauge | 15/32" plywood | -72.5 |
| 2 | 28-gauge | 7/16" OSB | -52.5 |
| 3 | 26-gauge | 15/32" plywood | -90.0 |
| 4 | 26-gauge | 15/32" plywood | -112.5 |

**Installation Over an Existing Roof Covering:** Installation over an existing roof covering is limited to a maximum of one existing layer of composition shingles or wood shingles or shakes. The minimum thickness of the existing roof deck must be as required for a new roof covering installation. Note: Inspection of the existing roof deck must be made before installing the roofing tiles.  The condition of the existing roof deck must be acceptable to receive the roofing tiles before the roof panel installation can proceed.  Note: A new underlayment installation is required when installing panels over an existing roof covering.

**Installation:**
**General Installation Requirements:**
The roofing tiles must be installed as specified in this evaluation report and as specified in the manufacturer's installation instructions.

**Underlayment:** A minimum of one layer of No. 30 (Type II) asphalt felt must be used.  The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970.  The underlayment must be installed with minimum 4" side laps and 6" end laps. The underlayment must be applied with corrosion-resistant fasteners as specified in the IRC and the IBC.

**Attachment:**
**System 1:** Each tile is mechanically attached to the roof deck using No. 10 x 1-1/2" long Leland Industries Master Gripper HWH screws.  Seven (7) fasteners are required for each tile.  The fasteners are located along the fastening flange beginning 2" from the edge and proceeding approximately 7-3/4" on center thereafter.  The tiles are applied in courses, by interlocking the headlap and the sidelap to adjacent tiles.  The sidelaps are offset a minimum of 11" from the previous course.

**System 2:** Each tile is mechanically attached to the roof deck using No. 10 x 1-1/2" long Leland Industries Master Gripper HWH screws.  Seven (7) fasteners are required for each tile.  The

fasteners are located along the fastening flange at the following distances from the left edge: 2", 4-1/2", 14", 22-1/2", 30", 37", and 46".  The tiles are applied in courses, by interlocking the headlap and the sidelap to adjacent tiles.  The sidelaps are offset a minimum of 11" from the previous course.

**System 3:** Each tile is mechanically attached to the roof deck using No. 10 x 1-1/2" long Marco Industries QuikGrip Metal2Wood HWH screws, T17 point.  Seven (7) fasteners are required for each tile.  The fasteners are located along the fastening flange beginning 2" from the edge and proceeding approximately 7-3/4" on center thereafter.  The tiles are applied in courses, by interlocking the headlap and the sidelap to adjacent tiles.  The sidelaps are offset a minimum of 11" from the previous course.

**System 4:** Each tile is mechanically attached to the roof deck using No. 10 x 1-1/2" long Marco Industries QuikGrip Metal2Wood HWH screws, T17 point.  Thirteen (13) fasteners are required for each tile.  The fasteners are located along the fastening flange beginning 2" from the edge and proceeding approximately 3-7/8" on center thereafter.  The tiles are applied in courses, by interlocking the headlap and the sidelap to adjacent tiles.  The sidelaps are offset a minimum of 11" from the previous course.

**Note:**  Keep the manufacturer's installation instructions available on the job site during the installation.  Use corrosion resistant fasteners as specified in the IRC and the IBC.