



ICC-ES Listing Report ESL-1166

Reissued November 2024

This listing is subject to renewal November 2025.

CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 41 13—Metal Roof Panels

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: TREMLOCK SL, TREMLOCK VP AND TREMLOCK T238 PANELS

Listee: TREMCO CPG, INC.

Evaluation: Tremlock SL, Tremlock VP, and Tremlock T238 panels are roof panels roll formed into profiles from either No. 24-gauge [0.0230-inch-thick (0.58 mm)] or No. 22-gauge [0.0296-inch-thick (0.75 mm)] coated steel sheets and were evaluated when tested to the following standard:

- ASTM E1592-05 (2017) and ASTM E1592-05 (2012), Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference, ASTM International.

Findings: Tremlock SL, Tremlock VP, and Tremlock T238 panels reached negative ultimate test pressures as specified in Table 1 based on testing in accordance with ASTM E1592, as referenced in the applicable section of the following code edition:

- 2021 *International Building Code*®
Applicable Section: 1504.4.2
- 2018 and 2015 *International Building Code*®
Applicable Section: 1504.3.2

Identification:

1. Each Tremlock SL, Tremlock VP, and Tremlock T238 bundle is identified with a label bearing the product name, the material type, the manufacturer's name and address, the ICC-ES Listing Report number (ESL-1166), and when applicable, the ICC-ES Listing Mark.
2. The report holder's contact information is the following:

TREMCO CPG, INC.
3735 GREEN ROAD
BEACHWOOD, OHIO 44122
(800) 852-6013
www.tremcoroofing.com

Installation: Each product must be installed in accordance with Tremco Incorporated's published installation instructions and applicable codes.

Conditions of listing:

1. The listing report addresses only conformance with the standard and code section noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. Negative ultimate test pressures do not address the connection of the roof panel system to the underlying supports. Connection of the roof panel system to the supporting structure/substrate must be designed by a registered design professional; calculations and details must be approved by the local code official.

TABLE 1—NEGATIVE ULTIMATE TEST PRESSURES

ROOF PANEL TYPE	PANEL CLIP TYPE	PANEL SPAN ¹ (FEET)	NEGATIVE ULTIMATE TEST PRESSURE ^{2,3} (PSF)
16" Wide Tremlock SL (24 gauge)	Tremlock SL UL-90	1.00	63.6
		2.00	53.2
		5.00	42.8
16" Wide Tremlock SL (22 gauge)	Tremlock SL UL-90	1.00	95.3
		2.00	84.9
		5.00	84.9
16" Wide Tremlock VP 216 (24 gauge)	VP - Low Floating, High Floating, or Low Fixed	1.00	220.7
		2.50	130.0
		5.00	78.0
		7.50	46.8
16" Wide Tremlock VP 216 (22 gauge)	VP - Low Floating, High Floating, or Low Fixed	1.00	351.6
		2.50	171.6
		5.00	109.2
		7.50	72.8
18" Wide Tremlock VP 218 (24 gauge)	VP - Low Floating, High Floating, or Low Fixed	1.00	198.8
		2.50	135.2
		5.00	72.8
		7.50	52.0
18" Wide Tremlock VP 218 (22 gauge)	VP - Low Floating, High Floating, or Low Fixed	1.00	267.2
		2.50	182.0
		5.00	104.0
		7.50	67.6
16" Wide Tremlock T238 (24 gauge)	T238 Standard	1.00	275.0
		2.50	155.0
		5.00	94.4
18" Wide Tremlock T238 (24 gauge)	T238 Standard	1.00	265.0
		2.50	124.0
		5.00	77.0
18" Wide Tremlock T238 (24 gauge)	T238 Continuous	5.00	192.0
		6.00	166.3

For SI: 1 foot = 0.3048 m; 1 psf = 0.0479 kN/m²

Panel span is based on multiple span conditions. The minimum number of spans perpendicular to the panel length is 3.

Negative ultimate test pressures do not address the connection of the roof panel system to the underlying supports. Connection of the roof panel system to the supporting structure/substrate must be designed by a registered design professional; calculations and details must be approved by the local code official.

To achieve allowable design loads, a safety factor of 2.0 shall be applied to the negative ultimate test pressures, in accordance with Section I6.3 of AISI S100 [-16 (2020) w/S2-20 and -16] and Section D6.2 of AISI S100-12.