



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: MEDALLION-LOK, MAXIMA, AND 238T PANELS

Listee: McELROY METAL, INC.

Evaluation: Medallion-Lok, Maxima, and 238T 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 E1592-05 (2012), Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference, ASTM International.

Findings: Medallion-Lok, Maxima, and 238T 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 Medallion-Lok, Maxima, and 238T 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-1082), and when applicable, the ICC-ES Listing Mark.
2. The report holder's contact information is the following:

McELROY METAL, INC.
1500 HAMILTON ROAD
BOSSIER CITY, LOUISIANA 71111
www.mcelroymetal.com

Installation: Each product must be installed in accordance with McElroy Metal, Inc.'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 Medallion-Lok (24 gauge)	Medallion-Lok UL-90	1.00	63.6
		2.00	53.2
		5.00	42.8
16" Wide Medallion-Lok (22 gauge)	Medallion-Lok UL-90	1.00	95.3
		2.00	84.9
		5.00	84.9
16" Wide Maxima 216 (24 gauge)	Maxima - Low Floating, High Floating, or Low Fixed	1.00	220.7
		2.50	130.0
		5.00	78.0
16" Wide Maxima 216 (22 gauge)	Maxima - Low Floating, High Floating, or Low Fixed	7.50	46.8
		1.00	351.6
		2.50	171.6
16" Wide Maxima 216 (22 gauge)	Maxima - Low Floating, High Floating, or Low Fixed	5.00	109.2
		7.50	72.8
		1.00	198.8
18" Wide Maxima 218 (24 gauge)	Maxima - Low Floating, High Floating, or Low Fixed	2.50	135.2
		5.00	72.8
		7.50	52.0
18" Wide Maxima 218 (22 gauge)	Low Floating, High Floating, or Low Fixed	1.00	267.2
		2.50	182.0
		5.00	104.0
18" Wide Maxima 218 (22 gauge)	Low Floating, High Floating, or Low Fixed	7.50	67.6
		1.00	275.0
		2.50	155.0
16" Wide 238T (24 gauge)	238T Standard	5.00	94.4
		1.00	265.0
		2.50	124.0
18" Wide 238T (24 gauge)	238T Standard	5.00	77.0
		1.00	292.0
		6.00	166.3
18" Wide 238T (24 gauge)	238T Continuous	5.00	192.0
		6.00	166.3

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

¹Panel span is based on multiple span conditions. The minimum number of spans perpendicular to the panel length is 3.

²Negative 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.

³To achieve allowable design loads, a safety factor of 2.0 shall be applied to the negative ultimate test pressures, in accordance with Section D6.2 of AISI S100-12.