

Technical Bulletin

Issue Date : August 16, 2016

Revised : October 27, 2026

No. 04-404-16

Factory Mutual Approval 238T 16" & 238T 24"

McElroy Metal, Inc. has satisfied all requirements for **Factory Mutual Research Standard 4471** on its 238T panel. The panel must be installed as specified in the CONCLUSIONS of the FM report. The following is a summary of the approval report and the classifications issued. Please note Factory Mutual requires the substrate to be the main supporting structural roof member. It may not be a subpurlin or a furring member unless specifically called out.

Roof Nav Assembly Number	Class	Panel	Minimum Gauge	Panel Yield Strength (Min)	Minimum Substrate	Substrate Yield Strength (Min)	Substrate Spacing	Clip Type	Fasteners
240873-0-0 ¹	1-75	16" 238T	24	50 ksi	16 Ga. steel Roofhuggers	50 ksi	5'-0" MAX	STD 16 Ga	(2) ¼-14 SD
241354-0-0 ¹ 502756-0-0 ^{1,2}	1-75	16" 238T	24	50 ksi	16 Ga. steel	50 ksi	5'-0" MAX	STD 16 Ga	(2) ¼-14 SD
241719-0-0 ¹	1-195	16" 238T	24	50 ksi	16 Ga. steel Roofhuggers	50 ksi Min.	5'-0" MAX	Cont. 22 Ga	(4) ¼-14 SD
241729-0-0 ¹ 502755-0-0 ^{1,2}	1-195	16" 238T	24	50 ksi	16 Ga. steel	50 ksi Min.	5'-0" MAX	Cont. 22 Ga	(4) ¼-14 SD
528894-0-0 528949-0-0 ^{1,2,3}	1-105	24" 238T	24	50 ksi	16 Ga. Steel	50 ksi Min	5'-0" MAX	Cont. 24 Ga.	(4) ¼-14 SD
528950-0-0 528951-0-0 ³	1-120	16" 238T	0.040 Aluminum	14 ksi	22 Ga. Deck	33 ksi Min	2'-0" MAX	STD 16 Ga	(2) - #14 Dekfast
528952-0-0 528953-0-0 ³	1-165	16" 238T	0.040 Aluminum	14 ksi	22 Ga Deck	33 ksi	1'-0" MAX	STD 16 Ga	(2) - #14 Dekfast
528954-0-0 528955-0-0 ³	1-180	16" 238T	0.040 Aluminum	14 ksi	22 Ga Deck	80 ksi	1'-0" MAX	STD 16 Ga	(2) - #14 Dekfast

- Optional Factory Mutual Research Approved faced glass fiber insulation may be placed between the panel and the substrate.
- Optional U-Panel liner
- Optional minimum 1.5" and maximum 12.5" AC Foam insulation or up to 15" glass fiber insulation.

Report No. : 3033681
Report No. : PR452514

Dated: April 28, 2009
Dated: July 20, 2022

MANUFACTURING LOCATIONS

ADELANTO, CA ASHBURN, GA BOSSIER CITY, LA CLINTON, IL DIAMOND, MO HOUSTON, TX LEWISPORT, KY
LOCKHART, TX MARSHALL, MI MAUSTON, WI MERKEL, TX PEACHTREE CITY, GA SUNNYVALE, TX WINCHESTER, VA