

## **ICC-ES Evaluation Report**

#### **ESR-5046**

Reissued November 2024 This report also contains:

- City of LA Supplement

Subject to renewal November 2025 - CAS

- CA Supplement

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DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION

Section: 07 41 13 — Metal Roof Panels REPORT HOLDER: TAYLOR METAL, INC. (dba TAYLOR METAL PRODUCTS) EVALUATION SUBJECT: TMP METAL ROOFING PANELS



## 1.0 EVALUATION SCOPE

## 1.1 Compliance with the following codes:

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

## Properties evaluated:

- Weather resistance
- Fire classification
- Structural
- Wind uplift resistance

## 1.2 Evaluation of the following green code:

■ 2022 California Green Building Standards Code (CALGreen), Title 24, Part 11

## Attributes verified:

See Section 3.1.

## **2.0 USES**

The TMP metal roofing panels are used as roof coverings over solid or closely fitted decking and spaced supports.

## 3.0 DESCRIPTION

### 3.1 General:

The TMP metal roofing panels are cold-formed from steel and/or aluminum conforming to the product specifications, galvalume or zinc coatings, and base-metal thicknesses noted in <u>Table 1</u>. The clips used to attach the standing seam metal roof panels to the supporting roof structure are made from materials conforming to the product specifications and base metal thicknesses noted in <u>Table 2</u>. See <u>Figures 1</u> and <u>2</u> for panel and clip details, respectively.

The attributes of the metal roofing panels have been verified as conforming to the provisions of CALGreen Section A5.406.1.2 for reduced maintenance. Note that decisions on compliance for those areas rest with the

user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

### 3.2 Deck Material:

Solid or closely fitted decking must be a minimum of <sup>15</sup>/<sub>32</sub>-inch-thick (11.9 mm) plywood or lumber sheathing complying with IBC Section 2304.8.2 or IRC Section R803, or minimum No. 22 gauge [0.030 inch thick (0.76 mm)] steel complying with IBC Section 2210.1.1.2.

## 3.3 Underlayment and Flashing:

Underlayment must be in accordance with IBC Section 1507.4.5 or IRC Section R905.10.5, as applicable. Where specified in <u>Table 6</u>, the underlayment is Versashield® Fire-Resistant Roof Deck Protection (ESR-2053) or Polystick XFR (ESR-1697). Flashing must be in accordance with IBC Section 1503.2 or IRC Section R903.2, as applicable.

## 3.4 Impact Resistance:

The MS 200 steel roof panels described in this report meet the requirements of 2021 IBC Section 1504.8 (2018 IBC Section 1504.7) for impact resistance when installed on roofs with a slope less than 2:12 (16.7 percent slope).

## 4.0 DESIGN AND INSTALLATION

## 4.1 Installation:

Installation of the TMP metal roof panels must be in accordance with this report, IBC Section 1507.4, or IRC Section R905.10, and the manufacturer's published installation instructions. The manufacturer's installation instructions must be available at the jobsite at all times during installation.

The panels must be installed on roofs with a minimum slope of 2:12 (16.7-percent slope), except for MS 200 steel roof panels which can be installed in roof slopes greater than ½: 12 (2 percent slope). Penetrations and terminations of the panels must be flashed and made weathertight in accordance with the manufacturer's published installation instructions and IBC Section 1503.2 or IRC Section R903.2, as applicable.

## 4.2 Uniform Gravity Loads:

When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the sheathing.

When panels are installed on spaced supports as shown in <u>Table 5</u>, the panels are capable of withstanding the allowable uniform gravity loads and the minimum concentrated live load of 300 lbf (1.33 kN) per IBC Table 1607.1 as indicated in <u>Table 5</u>. The supporting structure must be designed to resist the applicable forces.

### 4.3 Wind Uplift Resistance:

The allowable wind uplift pressures of the panels are provided in Table 4.

## 4.4 Fire Classification:

When installed as specified in <u>Table 6</u>, the metal roof panels are components of roof assemblies classified as Class A or B in accordance with ASTM E108 or UL790.

## 5.0 CONDITIONS OF USE:

The Taylor Metal metal roof panels described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation must comply with the applicable code, this report and the manufacturer's published installation instructions. In the event of conflict between this report and the manufacturer's instructions, this report governs.
- 5.2 The metal panels must be installed only by applicators approved by Taylor Metals, Inc.
- **5.3** Design wind uplift pressure on any roof area, including edge and corner zones, must not exceed the allowable wind pressure for the system installed in that particular area. Refer to the allowable wind uplift pressure for the metal panels as listed in Table 4.

- **5.4** The allowable wind uplift pressures listed in <u>Table 4</u> are for the roof covering only. The deck and framing to which the roof covering is attached must be designed for the applicable components and cladding wind loads in accordance with the IBC or IRC, as applicable.
- **5.5** Calculations demonstrating that the required wind resistance is less than the allowable wind resistance must be submitted to the code official.
- **5.6** See <u>Table 1</u> for panel manufacturing location. The manufacturing is under a quality-control program with inspections by ICC-ES.

## **6.0 EVIDENCE SUBMITTED**

Data in accordance with the ICC-ES Acceptance Criteria for Metal Roof Coverings (AC166), dated February 2021.

## 7.0 IDENTIFICATION

- **7.1** The panels are identified with a label bearing the product name, the material type, the manufacturer's name (dba: Taylor Metal Products), and the evaluation report number (ESR-5046).
- **7.2** The report holder's contact information is the following:

TAYLOR METAL, INC. (dba TAYLOR METAL PRODUCTS) 4566 RIDGE DRIVE NE SALEM, OREGON 97301 (503) 581-8338 www.taylormetal.com

### **TABLE 1—MANUFACTURING FACILITIES**

#### MANUFACTURING FACILITY

TMP-Riverside 4880 Felspar Street Riverside, California 92509

## TABLE 2—TAYLOR METAL ROOF PANEL SPECIFICATIONS

PANEL		MATERIAL		MIN. BASE METAL THICKNESS
PANEL	Specification	Classification	Coating	(inch)
Versa Span 12"-14"-16"-18" Widths	ASTM A792	SS Grade 50	AZ 50- Painted AZ55-Unpainted	0.0224 (24 gauge) 0.0281 (22 gauge)
	ASTM B209	3003-H14	N/A	0.032
MS-150 12"-16"-18" Widths	ASTM A792	SS Grade 50	AZ 50- Painted AZ55-Unpainted	0.018 (26 gauge) 0.0224 (24 gauge) 0.0281 (22 gauge)
12 - 10 - 10 Widths	ASTM B209	3003-H14	N/A	0.032 0.040
MS-200	ASTM A792	SS Grade 50	AZ 50- Painted AZ55-Unpainted	0.0224 (24 gauge) 0.0281 (22 gauge)
12"-14"-16"-18" Widths	ASTM B209	3003-H14	N/A	0.032 0.040
PBR 36" Width	ASTM A792	SS Grade 50 SS Grade 80 (26 gauge only)	AZ 50- Painted AZ55-Unpainted	0.018 (26 gauge) 0.0224 (24 gauge) 0.0281 (22 gauge)
36 Width	ASTM B209	3003-H14	N/A	0.032
HR-34 34" Width	ASTM A792	SS Grade 50 SS Grade 80 (26 gauge only) SS Grade 33 (20 gauge only)	AZ 50- Painted AZ55-Unpainted	0.018 (26 gauge) 0.0224 (24 gauge) 0.0281 (22 gauge) 0.0341 (20 gauge)
	ASTM B209	3003-H14	N/A	0.032 0.040
Classic 7/8 Corrugated 37.33" Width	ASTM A792	SS Grade 50 SS Grade 80 (26 gauge only)	AZ 50- Painted AZ55-Unpainted	0.018 (26 gauge) 0.0224 (24 gauge) 0.0281 (22 gauge)
	ASTM B209	3003-H14	N/A	0.032
BR-36	ASTM A792	SS Grade 50 SS Grade 33 (20 gauge only)	AZ 50- Painted AZ55-Unpainted	0.0224 (24 gauge) 0.0281 (22 gauge) 0.0341 (20 gauge)
36" Width	ASTM B209	3003-H14	N/A	0.032 0.040

For **SI:** 1 inch = 25.4 mm.

## TABLE 3—TAYLOR METAL ROOF PANEL CLIP SPECIFICATIONS

OL ID			MIN. BASE STEEL		
CLIP	Specification	Classification	Coating	THICKNESS (inch)	
Versa Span Snap Lock Manufactured by SFS, Clip Master, and AMSI	Galvanized Steel	18 ga. steel ASTM A653 Grade 50	G90	0.046	
MS150 Fixed Clip Manufactured by SFS, Clip Master, and AMSI MS 150 Floating Clip Manufactured by SFS, Clip Master, and AMSI	Galvanized Steel	22 ga. steel (fixed) 18/22 ga. (floating) ASTM A653 Grade 50	G90	0.046 (BASE)- 0.028 (FIXED AND TOP)	
MS200 Fixed Clip Manufactured by SFS, Clip Master, and AMSI	Galvanized Steel	22 ga. steel ASTM A653 Grade 50	G90	0.028	
2" Float Engineered Panel Floating Clip Manufactured by SFS	Galvanized Steel	16 ga. Base/22 ga. Top- steel ASTM A653 Grade 50	G90	0.0575 (BASE)- 0.028 (TOP)	

For **SI**: 1 inch = 25.4 mm.

## TABLE 4—ALLOWABLE WIND UPLIFT PRESSURES

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
	Min. 30 mil steel		12	46.8
	deck -or-		18	42.4
40"	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting	24	38.1
16" wide Versa Span (0.032" Aluminum)	thick plywood -or-	structure with two (2) No. 10 phillip pancake self-	30	33.8
Aluminum)	Min. 56 mil steel	drilling screws	36	29.4
	purlins (open		42	25.1
	framing)		48	20.8
	Min. 30 mil steel		12	54.6
	deck -or-		18	48.5
10"ida Varra Crar (0.030"	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting	24	42.4
18" wide Versa Span (0.032" Aluminum)	thick plywood -or-	structure with two (2) No. 10 phillip pancake self-	30	36.4
Aluminum)	Min. 56 mil steel	drilling screws	36	30.3
	purlins (open		42	24.2
	framing)		48	18.2
	Min. 30 mil steel		12	83.2
	deck -or-		18	73.6
16" wide Veres Cres (24 se	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting structure with two (2) No. 10 phillip pancake self-	24	64.1
16" wide Versa Span (24 ga. steel)	thick plywood -or-		30	54.6
steer)	Min. 56 mil steel	drilling screws	36	45.0
	purlins (open		42	35.5
	framing)		48	26.0
	Min. 30 mil steel		12	93.6
	deck -or-		18	87.1
16" wide Versa Span (22 ga.	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting	24	78.0
steel)	thick plywood -or-	structure with two (2) No. 10 phillip pancake self-	30	68.9
Sieei)	Min. 56 mil steel	drilling screws	36	59.8
	purlins (open		42	50.7
	framing)		48	41.6
	Min. 30 mil steel		12	67.6
	deck -or-		18	59.8
18" wide Versa Span (24 ga.	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting	24	52.0
steel)	thick plywood -or-	structure with two (2) No. 10 phillip pancake self-	30	44.2
Sieei)	Min. 56 mil steel	drilling screws	36	36.4
	purlins (open		42	28.6
	framing)		48	20.8
	Min. 30 mil steel		12	90.1
	deck -or-		18	79.8
18" wide Versa Span (22 ga.	Min. 15/32-inch-	Versa Span Snap Lock fastened to supporting	24	69.6
steel)	thick plywood -or-	structure with two (2) No. 10 phillip pancake self-	30	59.3
3(00)	Min. 56 mil steel	drilling screws	36	49.1
	purlins (open		42	38.8
	framing)		48	286

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
	Min. 30 mil steel		12	36.4
	deck -or-		18	32.5
16.75" wide MS150-90 degree	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	28.6
seam (0.032" and 0.040"	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	24.7
aluminum)	Min. 56 mil steel	screwis	36	20.8
	purlins (open framing)		42 48	16.9 13.0
			12	13.0
	Min. 30 mil steel deck -or-		18	12.1
	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	11.3
16.75" wide MS150-90 degree	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	10.4
seam (24 ga. steel)	Min. 56 mil steel	screwis	36	9.5
	purlins (open		42	8.7
	framing)		48	7.8
	Min. 30 mil steel		12	57.3
	deck -or-		18	50.4
16 75" wide MS150 00 degree	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	43.4
16.75" wide MS150-90 degree seam (22 ga. steel)	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	36.5
Seam (22 ga. steer)	Min. 56 mil steel	screwis	36	29.5
	purlins (open		42	22.6
	framing)		48	15.6
	Min. 30 mil steel		12	111.9
	deck -or-		18	100.1
12.625" wide MS150-180	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	88.4
degree seem (0.032" and	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	76.7
0.040" aluminum)	Min. 56 mil steel purlins (open	screwis	36	65.0
	framing)		42	53.3
	Ψ,		48	41.6
	Min. 30 mil steel deck -or- Min. 15/32-inch- thick plywood -or- Min. 56 mil steel purlins (open framing)	TMP MS 150 Clip fastened to supporting structure with two (2) No. 10 pancake head self-drilling screwis	12 18	137.9
12 C25" wide MC450 100			24	124.0 110.2
12.625" wide MS150-180 degree/double lock seam (24 ga. steel)			30	96.3
			36	82.4
			42	68.6
			48	54.7
	Min. 30 mil steel		12	182.2
	deck -or-	TMP MS 150 Clip fastened to supporting structure with two (2) No. 10 pancake head self-drilling	18	161.8
12" wide MS150-180	Min. 15/32-inch-		24	141.4
degree/double lock seam (22	thick plywood -or-		30	121.1
ga. steel)	Min. 56 mil steel	screwis	36	100.7
	purlins (open		42	80.3
	framing)		48	59.9
	Min. 30 mil steel		12	119.7
	deck -or-	TMP MS 150 Clip fastened to supporting structure	18	107.1
16.625" wide MS150-180	Min. 15/32-inch-		24	94.5
degree/double lock seam (24	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	81.9
ga. steel)	Min. 56 mil steel	screwis	36	69.4
	purlins (open		42	56.8
	framing)		48	44.2
	Min. 30 mil steel		12	145.7
16 625" wide MC450 400	deck -or-	TMP MS 150 Clip footoned to asserting atmost	18 24	128.8 111.9
16.625" wide MS150-180 degree/double lock seam (22	Min. 15/32-inch- thick plywood -or-	TMP MS 150 Clip fastened to supporting structure with two (2) No. 10 pancake head self-drilling	30	95.0
ga. steel)	Min. 56 mil steel	screwis	36	78.0
ga. Sicol)	purlins (open	000000	42	61.1
	framing)		48	44.2
	Min. 30 mil steel		12	83.3
	deck -or-		18	73.7
18" wide MS150-180	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	64.2
degree/double lock seam	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	54.6
(0.032"and 0.040" aluminum)	Min. 56 mil steel	screwis	36	45.1
,	purlins (open		42	35.5
	framing)		48	26.0
	Min. 30 mil steel		12	109.3
	deck -or-		18	97.1
18" wide MS150-180	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	85.0
degree/double lock seam (24	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	72.8
ga. steel)	Min. 56 mil steel	screwis	36	60.7
	purlins (open		42	48.5
	framing)		48	36.4

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
	Min. 30 mil steel		12	124.9
	deck -or-		18	111.5
18" wide MS150-180	Min. 15/32-inch-	TMP MS 150 Clip fastened to supporting structure	24	98.0
degree/double lock seam (22	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	84.6
ga. steel)	Min. 56 mil steel	screwis	36	71.1
	purlins (open		42	57.7
	framing)		48	44.2
	Min. 30 mil steel		12	36.4
	deck -or-		18	32.5
18" wide MS200-90	Min. 15/32-inch-	TMP MS 200 Clip fastened to supporting structure	24	28.6
degree/single lock seam	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	24.7
(0.032" aluminum)	Min. 56 mil steel	screw	36	20.8
	purlins (open		42	16.9
	framing)		48	13.0
	Min. 30 mil steel		12	46.9
	deck -or-		18	42.6
18" wide MS200-90	Min. 15/32-inch-	TMP MS 200 Clip fastened to supporting structure	24	38.2
degree/single lock seam	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	33.4
(0.040" aluminum)	Min. 56 mil steel	screw	36	29.5
	purlins (open		42	25.2
	framing)		48	20.8
	Min. 30 mil steel		12	59.9
	deck -or-		18	53.4
18" wide MS200-90	Min. 15/32-inch-	TMP MS 200 Clip fastened to supporting structure	24	46.9
degree/single lock seam (24	thick plywood -or-	with two (2) No. 10 pancake head self-drilling	30	40.4
ga. steel)	Min. 56 mil steel	screw	36	33.8
	purlins (open		42	27.3
	framing)		48	20.8
	Min. 30 mil steel	TMP MS 200 Clip fastened to supporting structure with two (2) No. 10 pancake head self-drilling screw	12	98.9
	deck -or-		18	88.1
18" wide MS200-90	Min. 15/32-inch-		24	77.2
degree/single lock seam single lock seam (22 ga. steel)	thick plywood -or- Min. 56 mil steel purlins (open framing)		30	66.4
			36	55.5
			42	44.7
			48	33.8
			12	161.3
	Min. 30 mil steel		18	147.6
	deck -or-		24	134.0
16" wide MS200-180	Min. 15/32-inch-		30	120.3
degree/double lock seam (24	thick plywood -or-	2" float engineered panel clip connected to	36	106.7
ga. steel)	Min. 56 mil steel	supporting structure with two (2) No. 14 screws	42	93.0
	purlins (open		48	79.4
	framing)		54	67.7
			60	52.1
			12	163.9
	Min. 30 mil steel		18	150.9
	deck -or-		24	137.9
16" wide MS200-180	Min. 15/32-inch-	O" float anning and manual alignment at the	30	124.9
degree/double lock seam (22	thick plywood -or-	2" float engineered panel clip connected to supporting structure with two (2) No. 14 screws	36	111.9
ga. steel)	Min. 56 mil steel	Supporting Structure with two (2) NO. 14 SCIEWS	42	98.9
	purlins (open		48	85.9
	framing)		54	72.9
			60	59.9
			12	83.3
	Min. 30 mil steel		18	77.4
	deck -or-		24	71.5
18" wide MS200-180	Min. 15/32-inch-	2" float engineered panel clip connected to	30	65.7
degree/double lock seam	thick plywood -or-	supporting structure with two (2) No. 14 screws	36	59.8
(0.032" aluminum)	Min. 56 mil steel	Supporting structure with two (2) No. 14 screws	42	54.0
	purlins (open		48	48.1
	framing)		54	42.3
			60	36.4
			12	109.3
	Min. 30 mil steel		18	101.1
	deck -or-		24	93.0
18" wide MS200-180	Min. 15/32-inch-	O" float angingered panel alia saggested to	30	84.9
degree/double lock seam (24	thick plywood -or-	2" float engineered panel clip connected to	36	76.7
ga. steel)	Min. 56 mil steel	supporting structure with two (2) No. 14 screws	42	68.6
-	purlins (open		48	60.5
	framing)		54	52.3
			60	44.2

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
			12	156.1
	Min. 30 mil steel		18	143.4
	deck -or-		24	130.7
18" wide MS200-180	Min. 15/32-inch-		30	118.0
	thick plywood -or-	2" float engineered panel clip connected to	36	105.4
degree/double lock seam (22	Mir. 50 rail at all	supporting structure with two (2) No. 14 screws		
ga. steel)	Min. 56 mil steel	.,	42	92.7
	purlins (open		48	80.0
	framing)		54	67.3
			60	54.7
	Min. 30 mil steel		24	187.5
	deck -or-	Minimum six (6) No. 14 hex-head self-drilling	30	165.5
	Min. 15/32-inch-	screws across the panel width at all supports	36	143.3
36" wide PBR (0.032"		screws across the pariet width at all supports		
aluminum)	thick plywood -or-	0:11 6 7	42	121.3
,	Min. 56 mil steel	Sidelap fasteners are No. 14 hex-head self-drilling	48	99.2
	purlins (open	screws at 12" o.c.	54	77.1
	framing)		60	55.0
	Min. 30 mil steel		24	100.0
	deck -or-	Minimum six (6) No. 14 hox hood solf drilling	30	92.5
		Minimum six (6) No. 14 hex-head self-drilling	36	85.0
0011 11 555 (00 11)	Min. 15/32-inch-	screws across the panel width at all supports		
36" wide PBR (26 ga. steel)	thick plywood -or-		42	77.5
	Min. 56 mil steel	Sidelap fasteners are No. 14 hex-head self-drilling	48	70.0
	purlins (open	screws at 12" o.c.	54	62.5
	framing)		60	55.0
	0,		24	175.0
	Min. 30 mil steel	Minimous air (C) No. 44 barries 1 15 1 19	30	156.7
	deck -or-	Minimum six (6) No. 14 hex-head self-drilling		
	Min. 15/32-inch-	screws across the panel width at all supports	36	138.3
36" wide PBR (24 ga. steel)	thick plywood -or-		42	120.0
	Min. 56 mil steel	Sidelap fasteners are No. 14 hex-head self-drilling	48	101.7
	purlins (open	screws at 12" o.c.	54	83.3
	framing)		60	65.0
	3,			
	Min. 30 mil steel		24	200.0
	deck -or-	Minimum six (6) No. 14 hex-head self-drilling	30	178.3
	Min. 15/32-inch-	screws across the panel width at all supports  Sidelap fasteners are No. 14 hex-head self-drilling screws at 12" o.c.	36	156.7
36" wide PBR (22 ga. steel)	thick plywood -or- Min. 56 mil steel purlins (open framing)		42	135.0
`			48	113.3
			54	91.7
		0010110 at 12 0.0.	60	70.0
	naming)		60	70.0
	Min. 30 mil steel			
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	24	112.5
	Min. 15/32-inch-		30	100.8
34" wide HR-34 (0.032"		screws across the panel width at all supports	36	89.7
aluminum)	thick plywood -or-		42	78.5
,	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	67.3
	purlins (open	screws at 12" o.c.	54	56.2
	framing)			
			60	45.0
	Min. 30 mil steel deck -or-		24	100.0
		Minimum three (3) No. 12 hex-head self-drilling	30	90.0
24" wide LID 24 (0.040"	Min. 15/32-inch-	screws across the panel width at all supports	36	80.0
34" wide HR-34 (0.040"	thick plywood -or-		42	70.0
aluminum)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	60.0
	purlins (open	screws at 12" o.c.	54	50.0
	framing)	55.5.15 dt 12 5.5.		
	٥,		60	40.0
	Min. 30 mil steel		24	87.5
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	80.4
	Min. 15/32-inch-	screws across the panel width at all supports	36	73.3
34" wide HR-34 (26 ga. steel)	thick plywood -or-	· · · · · · · · · · · · · · · · · · ·	42	66.3
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	59.2
	purlins (open	screws at 12" o.c.	54	52.1
	framing)	55.55 40 12 5.5.		
	<u> </u>		60	45.0
	Min. 30 mil steel		24	100.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	90.8
	Min. 15/32-inch-	screws across the panel width at all supports	36	81.7
34" wide HR-34 (24 ga. steel)	thick plywood -or-		42	72.5
(2 i ga. 5.651)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	63.3
	purlins (open	screws at 12" o.c.	54	54.2
		5010W6 at 12 0.0.		
	framing)		60	45.0
	Min. 30 mil steel		24	100.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	90.8
	Min. 15/32-inch-	screws across the panel width at all supports	36	81.7
34" wide HR-34 (22 ga. steel)	thick plywood -or-	pano. man at an oupporto	42	72.5
1	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	63.3
1				
I	purlins (open	screws at 12" o.c.	54	54.2
	framing)		60	45.0

TAYLOR METAL ROOF		·	PANEL SPAN <sup>2</sup>	ALLOWABLE UPLIFT
PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	(inch)	PRESSURE (psf)
	Min. 30 mil steel		24	105.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	95.8
0.411 . I . I . I . I . I . I . I . I . I .	Min. 15/32-inch-	screws across the panel width at all supports	36	86.7
34" wide HR-34 (20 ga. steel)	thick plywood -or-	Sidelan festanone and No. 40 have been self-drilling	42	77.5
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	48	68.3
	purlins (open framing)	Screws at 12 o.c.	54 60	59.2 50.0
	0,		24	120.0
	Min. 30 mil steel deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	108.3
	Min. 15/32-inch-	screws across the panel width at all supports	36	96.7
34" wide HR-34 (0.032"	thick plywood -or-	solews doloss the panel width at an supports	42	85.0
aluminum)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	73.3
	purlins (open	screws at 12" o.c.	54	61.7
	framing)		60	50.0
	Min. 30 mil steel		24	200.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	177.1
34" wide HR-34 (0.040"	Min. 15/32-inch-	screws across the panel width at all supports	36	154.2
aluminum)	thick plywood -or-		42	131.1
a.a,	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	108.3
	purlins (open	screws at 12" o.c.	54	85.4
	framing)		60	62.5
	Min. 30 mil steel		24	175.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	157.5
24" wide HD 24 (26	Min. 15/32-inch-	screws across the panel width at all supports	36 42	140.0 122.5
34" wide HR-34 (26 ga. steel)	thick plywood -or- Min. 56 mil steel	Sidelan factoriars are No. 12 hey head solf drilling	42	
	purlins (open	Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	54	105.0
	framing)	Sciews at 12 o.c.	60	87.5 70.0
	٥,		24	200.0
34" wide HR-34 (24 ga. steel)	Min. 30 mil steel	Minimum fire (5) No. 40 have been dealf delition	30	180.0
	deck -or- Min. 15/32-inch-	Minimum five (5) No. 12 hex-head self-drilling screws across the panel width at all supports	36	160.0
	thick plywood -or-	screws across the pariet width at all supports	42	140.0
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	48	120.0
	purlins (open		54	100.0
	framing)		60	80.0
	Min. 30 mil steel deck -or- Min. 15/32-inch-	Minimum five (5) No. 12 hex-head self-drilling screws across the panel width at all supports	24	200.0
			30	178.3
			36	156.7
34" wide HR-34 (22 ga. steel)	thick plywood -or-		42	135.0
, ,	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	113.3
	purlins (open	screws at 12" o.c.	54	91.7
	framing)		60	70.0
	Min. 30 mil steel		24	200.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	179.2
	Min. 15/32-inch-	screws across the panel width at all supports	36	158.3
34" wide HR-34 (20 ga. steel)	thick plywood -or-		42	137.5
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	116.7
	purlins (open	screws at 12" o.c.	54	95.8
	framing)		60	75.0
	Min. 30 mil steel	Minimum Con (F) N. 401	24	55.0 50.9
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30 36	50.8 46.7
37.33" wide Classic 7/8	Min. 15/32-inch- thick plywood -or-	screws across the panel width at all supports	42	40.7
Corrugated (0.032" aluminum)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	38.3
	purlins (open	screws at 12" o.c.	54	34.2
	framing)		60	30.0
	Min. 30 mil steel		24	110.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	100.4
07.00"' 1.01 7/2	Min. 15/32-inch-	screws across the panel width at all supports	36	90.8
37.33" wide Classic 7/8	thick plywood -or-		42	81.3
Corrugated (26 ga. steel)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	71.7
	purlins (open	screws at 12" o.c.	54	62.1
	framing)		60	52.5
	Min. 30 mil steel		24	117.5
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	108.3
37.33" wide Classic 7/8	Min. 15/32-inch-	screws across the panel width at all supports	36	99.2
Corrugated (24 ga. steel)	thick plywood -or-		42	90.0
30114gato4 (27 ga. 31001)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	80.8
	purlins (open	screws at 12" o.c.	54	71.7
	framing)		60	62.5

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
	Min. 30 mil steel		24	150.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	135.4
37.33" wide Classic 7/8	Min. 15/32-inch-	screws across the panel width at all supports	36	120.8
Corrugated (22 ga. steel)	thick plywood -or-		42	106.3
Corrugated (22 ga. steer)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	91.7
	purlins (open	screws at 12" o.c.	54	77.1
	framing)		60	62.5
	Min. 30 mil steel		24	175.0
	deck -or-	Minimum seven (7) No. 12 hex-head self-drilling	30	155.0
37.33" wide Classic 7/8	Min. 15/32-inch-	screws across the panel width at all supports	36 42	135.0 115.0
Corrugated (0.032" aluminum)	thick plywood -or- Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	95.0
	purlins (open	screws at 12" o.c.	54	75.0
	framing)	00/0W0 dt 12 0.0.	60	55.0
	Min. 30 mil steel		24	162.5
	deck -or-	Minimum seven (7) No. 12 hex-head self-drilling	30	162.5
07.000 11.01 1.70	Min. 15/32-inch-	screws across the panel width at all supports	36	162.5
37.33" wide Classic 7/8	thick plywood -or-		42	162.5
Corrugated (26 ga. steel)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	162.5
	purlins (open	screws at 12" o.c.	54	162.5
	framing)		60	162.5
	Min. 30 mil steel		24	162.5
	deck -or-	Minimum seven (7) No. 12 hex-head self-drilling	30	108.3
37.33" wide Classic 7/8	Min. 15/32-inch-	screws across the panel width at all supports	36	99.2
Corrugated (24 ga. steel)	thick plywood -or-		42	90.0
Corrugated (24 ga. steer)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	80.8
	purlins (open	screws at 12" o.c.	54	71.7
	framing)		60	75.0
	Min. 30 mil steel		24	175.0
	deck -or-	Minimum seven (7) No. 12 hex-head self-drilling	30	135.4
37.33" wide Classic 7/8	Min. 15/32-inch- thick plywood -or- Min. 56 mil steel purlins (open framing)	screws across the panel width at all supports	36	120.8
Corrugated (22 ga. steel)		Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	42	106.3
			48	91.7
			54 60	77.1 75.0
	manning)		24	55.0
	Min. 30 mil steel deck -or-	Minimum three (3) No. 12 hex-head self-drilling screws across the panel width at all supports  Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	30	51.7
			36	48.3
36" wide BR-36 (0.032"	Min. 15/32-inch-		42	45.0
aluminum)	thick plywood -or- Min. 56 mil steel		48	41.7
	purlins (open		54	38.3
	framing)		60	35.0
	Min. 30 mil steel		24	75.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling screws across the panel width at all supports	30 36	69.2
26" wide BD 26 (0.040"	Min. 15/32-inch-		42	63.3 57.5
36" wide BR-36 (0.040" aluminum)	thick plywood -or-		48	51.7
alullillull)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	54	45.8
	purlins (open	screws at 12" o.c.		
	framing)		60	40.0
	Min. 30 mil steel		24	137.5
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	122.1
	Min. 15/32-inch-	screws across the panel width at all supports	36	106.7
36" wide BR-36 (24 ga. steel)	thick plywood -or-	,	42	91.3
, , ,	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	75.8
	purlins (open	screws at 12" o.c.	54	60.4
	framing)		60	45.0
	Min. 30 mil steel		24	100.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	90.0
	Min. 15/32-inch-	screws across the panel width at all supports	36	80.0
36" wide BR-36 (22 ga. steel)	thick plywood -or-		42	70.0
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	60.0
	purlins (open	screws at 12" o.c.	54	50.0
	framing)		60	40.0
	Min. 30 mil steel		24	100.0
	deck -or-	Minimum three (3) No. 12 hex-head self-drilling	30	89.8
	Min. 15/32-inch-	screws across the panel width at all supports	36	79.7
36" wide BR-36 (20 ga. steel)	thick plywood -or-	0.11	42	69.5
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	59.3
	purlins (open framing)	screws at 12" o.c.	54	49.2
	naning)		60	39.0

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN <sup>1</sup>	PANEL SPAN <sup>2</sup> (inch)	ALLOWABLE UPLIFT PRESSURE (psf)
	Min. 30 mil steel		24	135.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	122.7
	Min. 15/32-inch-	screws across the panel width at all supports	36	110.3
36" wide BR-36 (0.032"	thick plywood -or-	301cW3 across the parior width at all supports	42	98.0
aluminum)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	85.7
	purlins (open	screws at 12" o.c.	54	73.3
	framing)		60	61.0
	Min. 30 mil steel		24	171.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	150.8
	Min. 15/32-inch-	screws across the panel width at all supports	36	130.7
36" wide BR-36 (0.040"	thick plywood -or-	301cW3 across the panel width at all supports	42	110.5
aluminum)	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	90.3
	purlins (open	screws at 12" o.c.	54	70.2
	framing)		60	50.0
	Min. 30 mil steel deck -or- Min. 15/32-inch- thick plywood -or- Min. 56 mil steel purlins (open framing)	Minimum five (5) No. 12 hex-head self-drilling screws across the panel width at all supports  Sidelap fasteners are No. 12 hex-head self-drilling screws at 12" o.c.	24	200.0
			30	179.2
			36	158.3
36" wide BR-36 (24 ga. steel)			42	137.5
(= : g : : : . ,			48	116.7
			54	95.8
			60	75.0
	Min. 30 mil steel		24	200.0
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	180.0
	Min. 15/32-inch-	screws across the panel width at all supports	36	160.0
36" wide BR-36 (22 ga. steel)	thick plywood -or-		42	140.0
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	120.0
	purlins (open	screws at 12" o.c.	54	100.0
	framing)		60	80.0
	Min. 30 mil steel		24	170
	deck -or-	Minimum five (5) No. 12 hex-head self-drilling	30	153.1
	Min. 15/32-inch-	screws across the panel width at all supports	36	136.2
36" wide BR-36 (20 ga. steel)	thick plywood -or-		42	119.3
	Min. 56 mil steel	Sidelap fasteners are No. 12 hex-head self-drilling	48	102.3
	purlins (open	screws at 12" o.c.	54	85.4
	framing)		60	68.5

For **SI:** 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

TABLE 5- ALLOWABLE UNIFORM GRAVITY LOADS FOR METAL ROOF PANELS INSTALLED ON SPACED SUPPORTS<sup>1,2</sup>

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN	MAXIMUM SUPPORT SPACING (inches)	ALLOWABLE UNIFORM LOAD (psf)
16" wide Versa Span (0.032"	Min 2.5-inch wide		24	37.7
Aluminum)	support <sup>3</sup>	See <u>Table 4</u>	30	30.2
Aldillildill)	support		36	25.2
18" wide Versa Span (0.032"	Min 2.5-inch wide		24	33.6
Aluminum)	support <sup>3</sup>	See <u>Table 4</u>	30	26.9
Aldillilaili)	Support		36	22.4
			24	208.6
		See <u>Table 4</u>	30	166.9
	Min 2.5-inch wide support <sup>3</sup> See <u>Table 4</u> 36  42  48  54  60		36	133.3
16" wide Versa Span (24 ga. steel)			42	98.0
,				75.0
		54	59.3	
			60	48.0
			24	440.0
		30	30	330.8
			36	
	Min 2.5-inch wide		42	168.8
16" wide Versa Span (22 ga. steel)		See <u>Table 4</u>	48	129.2
	support <sup>3</sup>		54	102.1
			60	82.7
			66	68.4
			72	57.4

<sup>&</sup>lt;sup>1</sup>Tabulated values do not consider panel clip connection to supporting structure, which must be determined by registered design professional. Tabulated values do not consider pry effect applied to the fastener by the clip base, which must be performed by registered design professional.

<sup>&</sup>lt;sup>2</sup>The panel span for the Versa Span, MS150 and MS200 standing seam metal roof panels represent the maximum clip spacing along the seam. The panel span for the PBR, HR-34, Classic Corrugated 7/8 and BR-36 metal roof panels represent the maximum support member spacing.

TAYLOR METAL ROOF PANEL   SUPPORT   FASTENING   PATTERN   SACING (Inches)   ALLOWABLE   UNIFORM LOAD (psn)   186.5			(continued)		
18" wide Versa Span (24 gs. Steel)   Min 2.5-inch wide support*   See Table 4   42   56.9	TAYLOR METAL ROOF PANEL	SUPPORT		SPACING (inches)	UNIFORM LOAD (psf)
18" wide Versa Span (24 ga. Steel)  Min 2.5-inch wide support*  See Table 4  42					
16" wide MS150 (0.032" aluminum) single and double lock   Min 2.5-inch wide support*					
18 wide Wess Span (24 ga. Steel)   Support   See   1006 4		Min 2 5-inch wide			
16" wide MS150 (0.032" aluminum)   single and double lock   support*	18" wide Versa Span (24 ga. Steel)		See <u>Table 4</u>		
16" wide MS150 (0.032" aluminum) single and double lock support*   See Table 4   24   22.4   34.6   30   22.2   34.6   36   36.5   36					
16" wide MS150 (24 ga. Steel) single and double lock  16" wide MS150 (24 ga. Steel) single and double lock  16" wide MS150 (24 ga. Steel) single and double lock  16" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  12" wide MS150 (24 ga. Steel) single and double lock  14" wide MS150 (24 ga. Steel) single and double lock  15" wide MS150 (24 ga. Steel) single and double lock  15" wide MS150 (24 ga. Steel) single and double lock  16" wide MS150 (25 ga. Steel) single and double lock  18" wide MS150 (25 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (22 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (24 ga. Steel) single and double lock  18" wide MS150 (25 ga. Steel) single and double lock  18" wide MS150 (25 ga. Steel) single and double					
Single and double lock   Supports   See Table 4   24   200 8   24   200 8   30   167 6   36   139.7   37   36   139.2   36   36   36   36   36   36   36   3			See <u>Table 4</u>	24	22.4
16" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support	16" wide MS150 (0.040" aluminum)		Soo Toble 4	24	
16" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  Min 2.5-inch wide supports  See Table 4  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  See Table 4  Min 2.5-inch wide supports  See Table 4  Min 2.5-inch wide supports  See Table 4  Se	single and double lock	support <sup>3</sup>	See <u>Table 4</u>	30	22.2
16" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support*  Min 2.5-inch wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  12" wide MS150 (0.032" aluminum) single and double lock  Min 2.5-inch wide support*  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  12" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support*  See Table 4  12" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  See Table 4  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  Min 2.5-inch wide support*  Min 2.5-inch wide support*  Min 2.5-inch wide support*  See Table 4  Min 2.5-inch wide support*  Mi					
16" wide MS 150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support					
See Table 4   48   104.8   1					
Support   Support   Go	16" wide MS150 (24 ga. Steel)	Min 2.5-inch wide	Soo Toble 4		
16" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support	single and double lock	support <sup>3</sup>	See Table 4		
16" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support					
16" wide MS150 (22 ga. Steel) single and double lock   See Table 4   S					
16" wide MS150 (22 ga. Steel) single and double lock   See Table 4   S					
16" wide MS150 (22 ga. Steel) single and double lock   See Table 4   42   173.3   442   173.3   448   147.0   544   116.2   60   94.1   66   77.8   66   77.8   72   65.4   116.2   60   94.1   66   77.8   72   65.4   116.2   60   94.1   66   77.8   72   65.4   116.2   60   94.1   77.8   72   65.4   77.8   72   65.4   72   65.4   77.8   72   72   72   73.3   72   73.3				24	303.2
16" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports				30	242.6
16" wide MS150 (22 ga. Steel) single and double lock   See Table 4   S					
See Table 4					
See Table 4	16" wide MS150 (22 ga. Steel)	Min 2.5-inch wide	0 7 11 4		
12" wide MS150 (0.032" aluminum) single and double lock   Support3     12" wide MS150 (24 ga. Steel) single and double lock   See Table 4     12" wide MS150 (24 ga. Steel) single and double lock   See Table 4     12" wide MS150 (24 ga. Steel) single and double lock   See Table 4     18" wide MS150 (24 ga. Steel) single and double lock   See Table 4     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock		support <sup>3</sup>	See <u>Table 4</u>		
12" wide MS150 (0.032" aluminum)   Min 2.5-inch wide support3     12" wide MS150 (24 ga. Steel) single and double lock   See Table 4   See Table 4   39.3     12" wide MS150 (24 ga. Steel) single and double lock   Support3     12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     5ee Table 4   See Table 4   Table 4   Table 5   Table 5   Table 5   Table 6   Tabl					
See   Lable 4   30   25.5					
See Table 4   30   25.5	12" wide MS150 (0.032" aluminum)	Min 2.5-inch wide	0 7 11 4	24	39.3
12" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     12" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (25 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (25 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (25 ga. Steel) single and double lock   Min 2.5-inch wide supports     18" wide MS150 (25 ga. Steel) single and double lock   Min 2.5-inc			See <u>Table 4</u>	30	
12" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     12" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     See Table 4   36	-	• • • • • • • • • • • • • • • • • • • •		24	279.6
12" wide MS150 (24 ga. Steel) single and double lock   See Table 4   See Table 4   42   159.7		Min 2 5-inch wide	wide		
12" wide MS150 (24 ga. Steel) single and double lock   See Table 4   48   138.8   138.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   106.8   160   100.4   160   16					
See Table 4  See T	12" wide MS150 (24 ga. Steel)				
12" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4	single and double lock		See <u>lable 4</u>		
12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support	•				
12" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (22 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3     18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inc					
12" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support3  See Table 4  See Table 4  See Table 4  See Table 4  18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support3  Min 2.5-inch wide support3  See Table 4					
12" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4					
12" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support3  See Table 4					
12" wide MS150 (22 ga. Steel) single and double lock   See Table 4   See Table 4   48   172.5					
See Table 4	40"id= MQ450 (00 0t=-1)	Min O E in ala coida		42	
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4			See Table 4		
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4	Siligic and double lock	ου <b>ρ</b> μοι τ		_	
18" wide MS150 (24 ga. Steel) single and double lock   Min 2.5-inch wide support3   See Table 4					
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support3  See Table 4  18" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support3  Min 2.5-inch wide support3  See Table 4					
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support3  See Table 4					
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4					
18" wide MS150 (24 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4  42  71.7  48  62.7  54  55.8  60  50.2  24  269.6  30  215.6  36  179.7  42  154.0  18" wide MS150 (22 ga. Steel) single and double lock  See Table 4					
See Table 4	18" wide MS150 (24 ga. Steel)	Min 2.5-inch wide	Con Table 4		
See Table 4   55.8   60   50.2   24   269.6   30   215.6   36   179.7   42   154.0   131.1   54   103.6   60   83.9   66   69.3			See <u>Table 4</u>		
18" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4					
18" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4					
18" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See Table 4					
18" wide MS150 (22 ga. Steel) single and double lock  Min 2.5-inch wide support <sup>3</sup> See <u>Table 4</u> See <u>Table 4</u> 42  154.0  48  131.1  54  103.6  60  83.9  66  69.3					
18" wide MS150 (22 ga. Steel) single and double lock support <sup>3</sup> See <u>Table 4</u> See <u>Table 4</u> See <u>Table 4</u> 48  131.1  54  103.6  60  83.9  66  69.3					
single and double lock     support <sup>3</sup> See Table 4     4     103.6       60     83.9       66     69.3	18" wide MS150 (22 ga. Steel)	Min 2.5-inch wide	Soo Toble 4		
60 83.9 66 69.3	single and double lock	support <sup>3</sup>	See <u>Table 4</u>		
66 69.3		• •			
1 12 1 1811				72	58.3

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN	MAXIMUM SUPPORT SPACING (inches)	ALLOWABLE UNIFORM LOAD (psf)
18" wide MS200 (0.032" aluminum) single and double lock	Min 2.5-inch wide support <sup>3</sup>	See <u>Table 4</u>	24	26.2
18" wide MS200(0.040" aluminum)	Min 2.5-inch wide	O Table 4	24	40.8
single and double lock	support <sup>3</sup>	See <u>Table 4</u>	30	26.1
ğ	11		24	184.1
			30	147.3
			36	122.7
			42	105.2
18" wide MS200 (24 ga. steel)	Min 2.5-inch wide		48	92.1
single and double lcok	support <sup>3</sup>	See <u>Table 4</u>	54	81.8
single and double look	support		60	73.6
			66	66.9
			72	61.4
			24	266.8
			30	213.5
			36	177.9
			42	152.5
18" wide MS200 (22 ga. steel)	Min 2.5-inch wide	See <u>Table 4</u>	48	133.4
single and double lock	support <sup>3</sup>	OCC Table 4	54	118.6
			60	106.7
			66	89.3
			72	75.0
			24	207.3
			30	165.8
			36	138.2
			42	118.4
16" wide MS200 (24 ga. steel)	Min 2.5-inch wide		48	103.6
single and double lock		See <u>Table 4</u>	54	92.1
single and double lock	support <sup>3</sup>		60	82.9
			66	75.4
			72	69.1
			24	300.5
			30	240.4
			36	200.3
			42	171.7
16" wide MS200 (22 ga. steel)	Min 2.5-inch wide	Cas Table 4	48	150.2
single and double lock	support <sup>3</sup>	See <u>Table 4</u>	54	133.5
Ü	• • • • • • • • • • • • • • • • • • • •		60	120.2
			66	100.8
			72	84.7
			96	47.7
			24	40.4
36" wide PBR (0.032" aluminum)	Min 2.5-inch wide	See <u>Table 4</u>	30	32.3
oo wide i bit (0.002 aldililidili)	support <sup>3</sup>	OCC Table 4	36	26.9
			24	192.3
			30	153.8
	Min 2.5 inch odd		36	128.2
36" wide PBR (26 ga. steel)	Min 2.5-inch wide	See <u>Table 4</u>	42	109.9
( - 3 /	support <sup>3</sup>		48	96.1
			54	77.2
			60	62.6
			66	51.7
			24	191.4
			30	153.1
	Min 2.5-inch wide		36	127.6
36" wide PBR (24 ga. steel)	support <sup>3</sup>	See <u>Table 4</u>	42	109.4
	зарроп		48	86.4
			54	68.3
			60	55.3
			24	306.4
			30	245.1
			36	204.2
	Min O E in the salety		42	153.3
36" wide PBR (24 ga. steel)	Min 2.5-inch wide	See Table 4	48	117.3
(= - 3)	support <sup>3</sup>	. = 1.2.310 1	54	92.7
			60	75.1
			66	62.1
			72	52.2
			14	UL.L

TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING	MAXIMUM SUPPORT	ALLOWABLE
TATEOR METAL ROOT PAREL	3011011	PATTERN	SPACING (inches)	UNIFORM LOAD (psf)
34" wide HR-34 (0.032" aluminum)	Min 2.5-inch wide	See <u>Table 4</u>	24 30	63.2 50.6
or macrintor (c.coz alanimali)	support <sup>3</sup>	<u> </u>	36	42.1
			24	98.6
	Min 2.5-inch wide		30	78.9
34" wide HR-34 (0.032" aluminum)	support <sup>3</sup>	See <u>Table 4</u>	36	65.8
	l support		42	56.4
			48 24	49.3 234.6
			30	187.6
			36	156.4
	Min 2.5-inch wide		42	134.0
34" wide HR-34 (26 ga. steel)	support <sup>3</sup>	See <u>Table 4</u>	48	117.3
	очррог		54	104.2
			60	93.8 85.3
			72	85.3
			24	318.2
			30	254.6
			36	212.1
			42	181.8
34" wide HR-34 (24 ga. steel)	Min 2.5-inch wide	See <u>Table 4</u>	48	159.1
0 · ······ 0 · (2 · ga. stee.)	support <sup>3</sup>		54	141.4
			60 66	123.3 101.9
			72	85.6
			96	48.2
			24	361.8
			30	289.5
			36	241.2
	M: 05: 1 :1		42	206.8
34" wide HR-34 (22 ga. steel)	Min 2.5-inch wide	See <u>Table 4</u>	48 54	180.9 152.2
	support <sup>3</sup>		60	127.3
			66	115.7
			72	106.1
			96	60.1
			24	380.0
			30	304.0
			36 42	253.3 217.1
	Min 2.5-inch wide		48	190.0
34" wide HR-34 (20 ga. steel)	support <sup>3</sup>	See <u>Table 4</u>	54	168.9
			60	142.7
			66	117.9
			72	99.1
			96	55.7
			24 30	244.6 156.6
37.33" wide Classic 7/8 Corrugated	Min 2.5-inch wide		36	108.7
(0.032" aluminum)	support <sup>3</sup>	See <u>Table 4</u>	42	79.9
,	''		48	61.2
			52	48.3
			24	356.3
			30	228.0
37.33" wide Classic 7/8 Corrugated	Min 2.5-inch wide	See Table 4	36 42	158.3 116.3
(26 ga. steel)	support <sup>3</sup>	See Table 4	48	89.1
	Min 2.5-inch wide support <sup>3</sup>		52	70.4
			60	57.0
			24	485.6
		See <u>Table 4</u>	30	310.8
			36	215.8
37.33" wide Classic 7/8 Corrugated			42 48	158.6 121.4
(24 ga. steel)			52	95.9
			60	77.7
			66	64.2
			72	54.0

		(continuea)		
TAYLOR METAL ROOF PANEL	SUPPORT	FASTENING PATTERN	MAXIMUM SUPPORT SPACING (inches)	ALLOWABLE UNIFORM LOAD (psf)
		TATIENN	24	571.3
			30	365.6
			36	253.9
			42	186.5
37.33" wide Classic 7/8 Corrugated	Min 2.5-inch wide	See Table 4	48	142.8
(24 ga. steel)	support <sup>3</sup>	Gee Table 4	52	112.8
			60	91.4
			66	75.5
			72	63.5
00"			24	106.7
36" wide BR-36 (0.032"	Min 2.5-inch wide	Can Table 4	30	68.3
aluminum) <sup>2</sup>	support <sup>3</sup>	See <u>Table 4</u>	36	47.4
			24	128.2
00" : 1 DD 00 (0.040"			30	102.6
36" wide BR-36 (0.040"	Min 2.5-inch wide	See <u>Table 4</u>	36	73.8
aluminum)²	support <sup>3</sup>			
			42	54.2
			24	490
			30	392
			36	280.6
	M: 05: 1 :1		42	206.1
36" wide BR-36 (24 gage steel) <sup>2</sup>	Min 2.5-inch wide support <sup>3</sup>	See Table 4	48	157.8
, ,		330 <u>1466 4</u>	54	124.7
			60	101.0
			66	83.5
			72	70.1
		See <u>Table 4</u>	24	676.8
			30	520.0
			36	361.1
			42	265.3
00": 1. DD 00 (00 1)2	Min 2.5-inch wide		48	203.1
36" wide BR-36 (22 gage steel) <sup>2</sup>	support <sup>3</sup>		54	160.5
			60	130.0
			66	107.4
			72	90.3
			96	50.8
			24	656.0
	Min 2.5-inch wide support <sup>3</sup>		30	514.8
			36	357.5
			42	262.7
36" wide BR-36 (20 gage steel) <sup>2</sup>		See <u>Table 4</u>	48	201.1
			54	158.9
			60	128.7
			66	106.4
			72	89.4
			96	50.3

For **SI**: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

## **TABLE 6-FIRE CLASSIFICATION ASSEMBLIES**

ROOF CLASSIFICATION	SUBSTRATE	MAX. ROOF SLOPE	ASSEMBLY DETAILS	
A Noncom	N	Harting Mand	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
	Noncombustible	Unlimited	Insulation:	Any UL Classified roofing insulation, except for foam plastic insulation, minimum 1-inch-thick
A Noncom		Noncombustible Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
	Noncombustible		Barrier Board:	Min. 15/32-inch-thick plywood
			Ply Sheet (optional):	Min. one ply ASTM D226 Type I (No. 115) or Type II (No. 30) asphalt saturated felt or UL Certified Type G1 mechanically fastened

<sup>&</sup>lt;sup>1</sup>Tabulated load values are based on panels uniformly loaded and installed on three or more equal span conditions.

<sup>&</sup>lt;sup>2</sup>The tabulated spans are able to resist the concentrated roof live load of 300 lbf (1.33 kN) indicated in IBC Table 1607.1.

<sup>&</sup>lt;sup>3</sup>The structural support must be designed to resist the applicable forces. When panels are installled over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.

## TABLE 6-FIRE CLASSIFICATION ASSEMBLIES (continued)

ROOF	SUBSTRATE	MAX. ROOF	ASSEMBLY DETAILS	
CLASSIFICATION		SLOPE	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
Α	Combustible	Unlimited	Barrier Board:	Georgia Pacific ¼ inch minimum DensDeck board or ¼ inch minimum United States Gypsum Co SECUROCK Glass-Mat Roof Board (Type SGMRX), National Gypsum DEXcell Glass Mat Roof Board or DEXcell FV Glass Mat Roof Board, CertainTeed Gypsum GlasRoc or ½ inch minimum UL Certified gypsum board with all joints staggered a minimum of 6 inches from the plywood joints
			Ply Sheet (optional):	Min. one ply ASTM D226 Type I (No. 115) or Type II (No. 30) asphalt saturated felt or any UL Certified Type G1, G2 or G3 base or ply sheet mechanically fastened
			Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
Α	Noncombustible	Unlimited	Insulation:	Min. 1-inch-thick Perlite (ASTM C728) or wood fiber (ASTM C208, Type II
			Ply Sheet (optional):	Min. one ply ASTM D226 Type I (No. 115) or Type II (No. 30) asphalt saturated felt or any UL Certified Type G1, G2 or G3 base or ply sheet mechanically fastened
	Noncombustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
A			Barrier Board:	Georgia Pacific ¼ inch minimum DensDeck board or ¼ inch minimum United States Gypsum Co SECUROCK Glass-Mat Roof Board (Type SGMRX), National Gypsum DEXcell Glass Mat Roof Board or DEXcell FV Glass Mat Roof Board, CertainTeed Gypsum GlasRoc or ½ inch minimum UL Certified gypsum board with all joints staggered a minimum of 6 inches from the plywood joints
			Ply Sheet (optional):	Min. one ply ASTM D226 Type I (No. 115) or Type II (No. 30) asphalt saturated felt or any UL Certified Type G1, G2 or G3 base or ply sheet mechanically fastened
	Combustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
А			Underlayment:	One layer Versashield Fire-resistant Roof Deck Protection mechanically fastened per ESR-2053 -or- One layer Polystick XFR self-adhered installed per ESR-1697
			Ply Sheet (optional):	Min. one ply ASTM D226 Type I (No. 15) or Type II (No. 30) asphalt saturated felt or any UL Certified Type G1, G2 or G3 base or ply sheet mechanically fastened
A (reroofing)	Combustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 steel roof panels
			Existing Roof System:	Any Class A UL listed asphalt shingle
			Slip sheet:	One layer Versashield Fire-resistant Roof Deck Protection mechanically fastened per ESR-2053-or- One layer Polystick XFR self-adhered installed per ESR-1697
А	Noncombustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 aluminum roof panels

TABLE 6-FIRE CLASSIFICATION ASSEMBLIES (continued)

## Most Widely Accepted and Trusted

ROOF CLASSIFICATION	SUBSTRATE	MAX. ROOF SLOPE	ASSEMBLY DETAILS	
	Combustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 aluminum roof panels
А			Underlayment:	Two layers Versashield Fire-resistant Roof Deck Protection mechanically fastened per ESR-2053-or- One layer Polystick XFR self-adhered installed per ESR-1697
В	Combustible	Unlimited	Panels:	Versa Span, MS150, MS200, PBR, HR-34, Classic Corrugated 7/8 and BR-36 aluminum roof panels
			Underlayment:	One layer Versashield Fire-resistant Roof Deck Protection mechanically fastened per ESR-2053

<sup>&</sup>lt;sup>1</sup>Wood deck must be minimum 15/32-inch-thick plywood or non-veneer APA-rated 7/16-inch-thick oriented-strand board (OSB) or spaced sheathing. Steel deck must be a minimum of No. 22 gauge galvanized steel.



## **PANEL PROFILES**

12", 14", 16", 18" coverage options

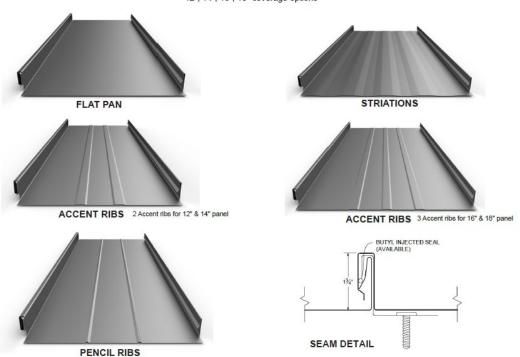
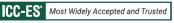


FIGURE 1- TAYLOR METAL PRODUCTS METAL ROOF PANELS

<sup>&</sup>lt;sup>2</sup>GAF's VersaShield® Fire-Resistant Roof Deck Protection is evaluated under ICC-ES evaluation report ESR-2053 and must be installed in accordance with that report.

<sup>&</sup>lt;sup>3</sup>Polyglass USA Polystick XFR self-adhered underlayment is evaluated under ICC-ES evaluation report ESR-1697 and must be installed in accordance with that report.



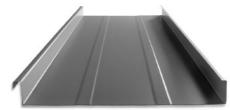


# MS-150 TM MECHANICALLY SEAMED

## PANEL PROFILES

12", 16", and 18" coverage options



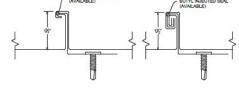


ACCENT RIBS 2 Accent ribs for 12" panel 3 Accent ribs for 16" & 18" panel



90° SEAM DETAIL







# MS-200 TM MECHANICALLY SEAMED

## PANEL PROFILES

12", 14", 16", and 18" coverage options





ACCENT RIBS 2 Accent ribs for 12" & 14" panels 3 Accent ribs for 16" & 18" panels



90° SEAM DETAIL

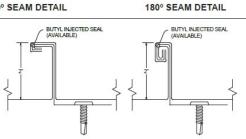
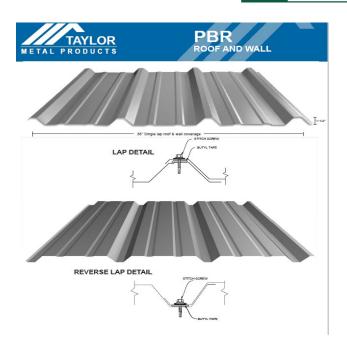
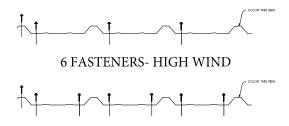


FIGURE 1- TAYLOR METAL PRODUCTS METAL ROOF PANELS (continued)



## ROOFING/SIDING PANEL APPLICATION 3 FASTENERS



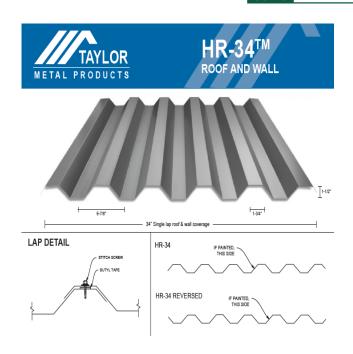
## REVERSED SIDING PANEL APPLICATION



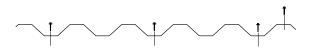


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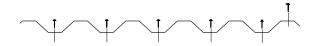
FIGURE 1- TAYLOR METAL PRODUCTS METAL ROOF PANELS (continued)



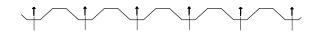
## ROOFING/SIDING PANEL APPLICATION 3 FASTENERS

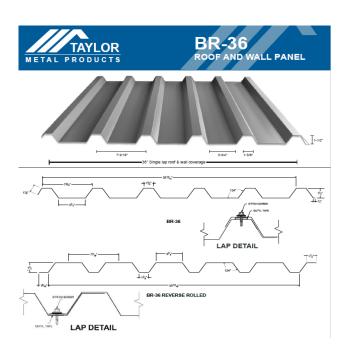


5 FASTENERS- HIGH WIND



## REVERSED SIDING PANEL APPLICATION

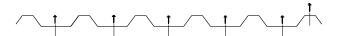




## ROOFING/SIDING PANEL APPLICATION 3 FASTENERS



5 FASTENERS- HIGH WIND



## REVERSED SIDING PANEL APPLICATION

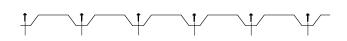


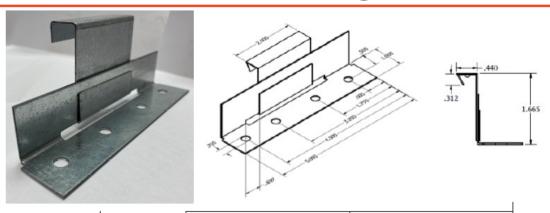
FIGURE 1- TAYLOR METAL PRODUCTS METAL ROOF PANELS (continued)

## 1-3/4" Versa-Span Snap Lock Panel Clip



Manufactured by: Clip Master SFS AMSI

## 1-1/2" MS-150 Floating Clips

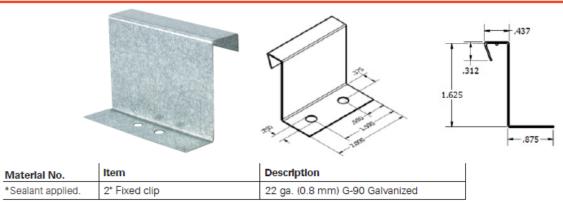


	Item	Base Material	Tab Material	
*Sealant applied.	1-1/2" Float clip	18 ga. (1.5 mm) G-90 Galvanized	22 ga. (0.8 mm) G-90 Galvanized	Γ

Manufactured by: Clip Master AMSI

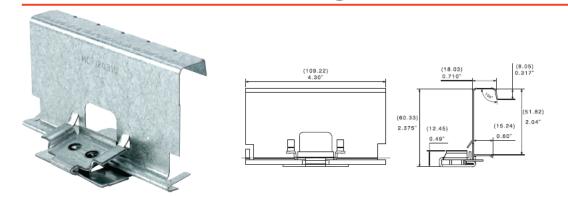
FIGURE 2- TAYLOR METAL PRODUCTS PANEL CLIPS FOR STANDING SEAM METAL ROOF PANELS

## 1-1/2" MS-150 Fixed Clip



Manufactured by: Clip Master SFS AMSI

## 2" MS-200 Floating Clip



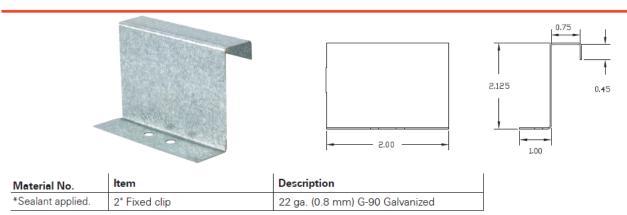
Material No.	Item	Base Material	Tab Material
1184718*	2" Float clip	16 ga. (1.5 mm) G-90 Galvanized	22 ga. (0.8 mm) G-90 Galvanized

<sup>\*</sup>Sealant applied.

Manufactured by: SFS

FIGURE 2- TAYLOR METAL PRODUCTS PANEL CLIPS FOR STANDING SEAM METAL ROOF PANELS (continued)

## 2" MS-200 Fixed Clip



Manufactured by: Clip Master SFS AMSI

FIGURE 2- TAYLOR METAL PRODUCTS PANEL CLIPS FOR STANDING SEAM METAL ROOF PANELS (continued)



## **ICC-ES Evaluation Report**

## **ESR-5046 City of LA Supplement**

Reissued November 2024

This report is subject to renewal November 2025.

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A Subsidiary of the International Code Council®

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

Section: 07 41 13—Metal Roof Panels

**REPORT HOLDER:** 

**TAYLOR METAL INC. (dba TAYLOR METAL PRODUCTS)** 

**EVALUATION SUBJECT:** 

TMP METAL ROOFING PANELS

## 1.0 REPORT PURPOSE AND SCOPE

## Purpose:

The purpose of this evaluation report supplement is to indicate that the TMP metal roofing panels, described in ICC-ES evaluation report <u>ESR-5046</u>, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

#### Applicable code editions:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

## 2.0 CONCLUSIONS

The TMP metal roofing panels, described in Sections 2.0 through 7.0 of the evaluation report <u>ESR-5046</u>, comply with the LABC Chapter 15, and the LARC Chapter 9, and are subject to the conditions of use described in this supplement.

## 3.0 CONDITIONS OF USE

The TMP metal roofing panels described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-5046.
- The design, installation, conditions of use and identification of the TMP metal roofing panels are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-5046.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16 and 17, as applicable.
- The TMP metal roofing panels must not be installed over existing wood shakes or wood shingles in accordance with LABC Section 1511.
- The installation of the TMP Metal roofing panels must comply with City of Los Angeles Information Bulletin P/BC 2020-16, "Dwellings in High Wind Velocity Areas (HWA)".

This supplement expires concurrently with the evaluation report, reissued November 2024.





## **ICC-ES Evaluation Report**

## **ESR-5046 CA Supplement**

Reissued November 2024

This report is subject to renewal November 2025.

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

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TAYLOR METAL INC. (dba TAYLOR METAL PRODUCTS)

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TMP METAL ROOFING PANELS

#### 1.0 REPORT PURPOSE AND SCOPE

### Purpose:

The purpose of this evaluation report supplement is to indicate that the TMP metal roofing panels, described in ICC-ES evaluation report ESR-5046, have also been evaluated for compliance with the codes noted below.

#### Applicable code editions:

■ 2022 and 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) AKA: California Department of Health Care Access and Information (HCAI) and the Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2022 and 2019 California Residential Code (CRC)

#### 2.0 CONCLUSIONS

### 2.1 CBC:

The TMP metal roofing panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-5046, may be used where the CBC requires a Class A roof covering complying with 2022 or 2019 CBC Section 1505.1.1, a Class B roof covering complying with 2019 CBC Section 1505.1.2, or a Class C roof covering complying with 2022 CBC Section 1505.1.2 or 2019 CBC Section 1505.1.3, provided the design and installation are in accordance with the 2021 and 2018 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report, and the additional requirements of CBC Chapters 16 and 17 as applicable.

- **2.1.1 OSHPD:** The TMP metal roofing panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-5046, comply with CBC Chapter 15 with applicable amendments [OSHPD 1, 1R, 2, 3, 4 and 5], provided the design and installation are in accordance with the 2021 and 2018 *International Building Code®* (IBC) provisions noted in the evaluation report and the additional requirements in CBC Chapters 16, 16A, 17 and 17A, as applicable.
- **2.1.2 DSA:** The TMP metal roofing panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-5046, comply with CBC Chapter 15 with applicable amendments [DSA-SS, DSA-SS/CC], provided the design and installation are in accordance with the 2021 and 2018 *International Building Code*<sup>®</sup> (IBC) provisions noted in the evaluation report and the additional requirements in CBC Chapters 16, 16A and 17A, as applicable.

## 2.2 CRC:

The TMP metal roofing panels, described in Sections 2.0 through 7.0 of the evaluation report ESR-5046, may be used where the CRC requires a Class A roof covering complying with 2022 or 2019 CRC Section R902.1.1, a Class B roof covering complying with 2019 CRC Section R902.1.2, or a Class C roof covering complying with 2022 CRC Section R902.1.2 or 2019 CRC Section R902.1.3, provided the design and installation are in accordance with the 2021 and 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report and the additional requirements of CRC Section R905.4.

This supplement expires concurrently with the evaluation report, reissued November 2024.

