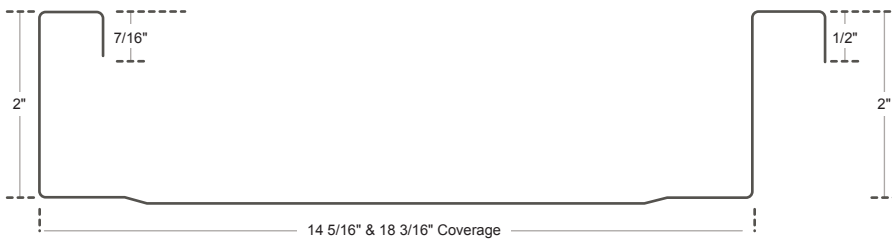


# Mechanically Seamed

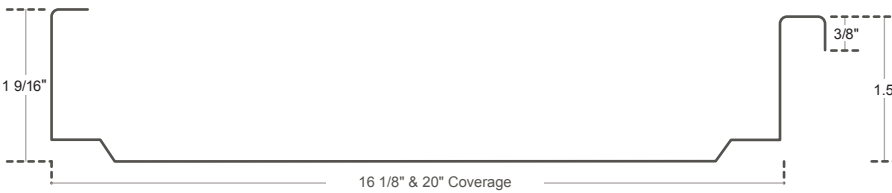
## MATERIAL SPECIFICATIONS

## ROOF PANEL

2" MECHANICALLY SEAMED PANEL SS200



1.5" MECHANICALLY SEAMED PANEL SS150



### Available Widths:

2" Mechanical Lock: 14 5/16" & 18 3/16"

1.5" Mechanical Lock: 16 1/8" & 20"

**Available Gauges:** 24ga, & 26ga

**Weight:** 1.00lbs/SqFt (24ga), .75lbs/SqFt (26ga)

**Substrate:** AZ-50, Grade D, 50,000ksi

**Available Materials:** Painted

**Paint Systems:** Weather XL (26ga), Fluoropon (PVDF) (24ga)

**Warranties:** Weather XL (26ga), Fluoropon (PVDF) (24ga)

**Production Options:** Either factory made to length, crated up to 50' panels to ensure damage free transport or rolled to length on site.

*\*\*On site production is subject to order minimums.\*\**

**Panel Options:** Flat Panel, Striations, Pencil Ribs or Bead Rolls, (Flat Panel requires a waiver)

**Testing For 2" Mechanical:**

**UL 580 Wind Uplift (Class 90)**

**UL 2218 Class 4 Hail Impact**

**UL 790 Class A Fire Rating**

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**ASTM E1680**

**ASTM E1646**

**ASTM E1592**

**1.5" Mechanical Lock Panel:**

**Installation:** Can be installed on solid wood decking.

**Minimum Slope:** 2:12 (Hot melt required below 3:12)

**2" Mechanical Lock Panel:**

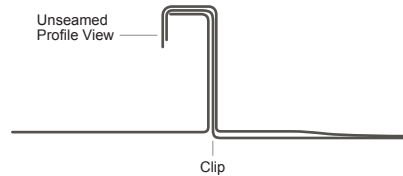
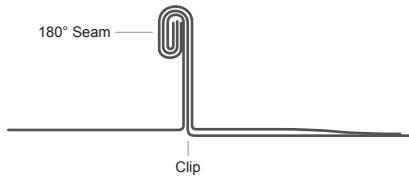
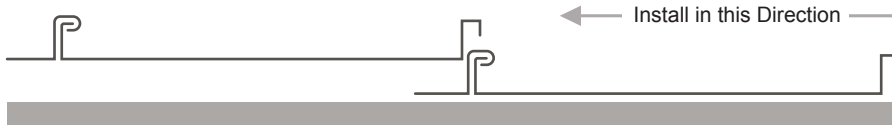
**Installation:** Can be installed over open frame steel purlins, steel decking, steel decking with polyiso board, or solid wood decking.

**Minimum Slope:** 1/2":12 (Hot melt required below 3:12)

**Please Note:** It is the responsibility of the builder to ensure that purlins are adequately spaced to meet specific engineering requirements.

*\*\*Oil Canning is not a reason for rejection of panels\*\**

## APPLICATION DETAILS



## LOAD TABLES

Refer to Trim Pamphlet for Material Availability

### ALLOWABLE UNIFORM LIVE LOAD (PSF) SPAN LENGTH (FEET)

SPAN TYPE	LOAD TYPE	2'	2.5'	3'	3.5'	4'	4.5'
Simple & Double Span	LOAD	170.8	132.8	120.1	103.7	90.4	78.7
	DEFP	--	1070.5	622.3	391.1	262.8	184.5
Triple Span	LOAD	235.5	188.0	156.5	130.5	100.5	79.0
	DEFP	--	1714.4	966.1	626.3	420.0	295.5
		5'	5.5'	6'	6.5'	7'	7.5'
	LOAD	67.8	63.5	53.5	44.7	38.4	33.8
Simple & Double Span	DEFP	134.2	101.0	77.8	61.1	48.9	39.8
	LOAD	64.4	51.8	44.0	40.4	34.7	29.7
Triple Span	DEFP	214.9	161.8	124.5	97.8	78.3	63.7

Load: Positive Load | DEFP: Positive Deflect Width: 14" Panels | Alloyd: 50 KSI Galvalume | Thickness: 24 GA

### Notes:

1. Allowable load per deflection based on L/180
2. Formula's used for flexure & deflection are as follows:  
**Simple & double span:**  $MP = 0.125wl^2$ , &  $\Delta = 0.013wl^4/EI$   
**Triple span:**  $MP = 0.08wl^2$ , &  $\Delta = 0.069wl^4/EI$
3. Allowable uniform loads are determined per the following:
  - a. Local & overall buckling - AISI C3.1.2
  - b. Allowable shear stress (Fv) - AISI C3.2
  - c. Combined bending & shear - AISI C3.3
  - d. Combined bending & web crippling - AISI C3.5
4. Allowable loads may be increased 33% for wind loads.
5. Min. panel support bearing length = 3 inches.
6. Allowance has been made for panel Dead Weight.
7. For all loads, use LOWEST value between Load & Deflection.

### Load Table Designations:

- (p) Positive bending  
(n) Negative bending



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*\*\*Metal America is neither partially or solely responsible for improper installation or defects as a result of installation\*\**