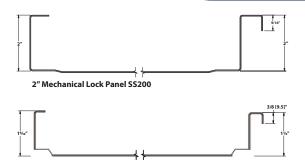
FLATIRON STEEL

MECHANICAL LOCK PANEL

MATERIAL SPECIFICATIONS



LOAD TABLES

1.5" Mechanical Lock Panel SS150

Refer to Trim Pamphlet for Material Availability

DEFp = Positive Deflect			Width: 14" Panels Alle		oy: 50 KSI Galvalume Thic		ckness : 24 GA
Allowable Uniform Live Load (PSF) Span Length (Feet)							
Span Type	Load Type	2.00	2.50	3.00	3.50	4.00	4.50
Simple &	LOAD	170.8	132.6	120.1	103.7	90.4	78.7
Double Span	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
Span Type	Load Type	5.00	5.50	6.00	6.50	7.00	7.50
Simple &	LOAD	67.8	63.5	53.5	44.7	38.4	33.8
Double Span	DEFp	134.2	101.0	77.8	61.1	48.9	39.8
Triple Span	LOAD	64.4	51.8	44.0	40.4	34.7	29.7
	DEFp	214.9	161.8	124.5	97.8	78.3	63.7

- Allowable load per deflection based on L/180
- 2. Formula's used for flexure & delfection are as follows; Simple & double span,
- MP = $0.08wl^2$, & $\Delta = 0.069wl^4/El$
- . Allowable uniform loads are determined per the following;
- a. Local & overall buckling AISI C3.1.2
- b. Allowable shear stress (Fv) AISI C3.2
- d. Combined bending & shear Alsi Cs.s

 d. Combined bending & web crippling AlSI C3.

APPLICATION DETAILS:

Installation:: Can be installed on solid wood decking

steel decking with polyiso board, or solid wood decking

PREVAILING WIND

Minimum Slope: ½":12 (Hot melt required below 3:12)

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

1.5" Mechanical Lock Panel

2" Mechanical Lock Panel

*Clip Spacing (solid deck) 2' on center

180° Seam

- Allowable loads may be increased 33% for wind loa
 Min. panel support hearing length = 2 inches.
- 5. Min. panel support bearing length = 3 inches.
- 7. For all loads, use LOWEST value between Load & Deflection
- (p) Positive bending
- (n) Negative bending

Installation: Can be installed over open frame steel purlins, steel decking,

Available Widths:

1.5" Mechanical Lock: 12", 16", 20" **2" Mechanical Lock:** 14.1875" & 18.1875"

Available Gauges: 22, 24, & 26

Weight: 1.25lbs/SqFt (22), 1.00lbs/SqFt (24),

.75lbs/SqFt (26)

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

Available Materials: Painted, Galvalume, Bonderized®, Core-Ten™, Cold Roll, 16 & 20 oz

Copper

Paint Systems: Durapon70[™] PVDF, ULTRA CLAD[™] Kynar500[®]/Hylar5000[®] Valspar Fluropon[®]

Warranties: Durapon70[™] PVDF – 35 year ULTRA-CLAD[™] - 35 year Zincalume® AZ50 – 20 year Valspar[™] PVDF - 35 year

Production Options: Either factory made to length with protective film to ensure damage free transport or rolled to length on site*

On site production is subject to order minimums

Panel Options: Flat Panel, Striations, Bead Roll or Pencil Ribs (*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
- •ASTM E1680
- •ASTM E1646
- •ASTM E1592

Please Note: It is the responsibility of the builder to ensure that they are compliant with current building codes.



Flatiron Steel is neither partially or soley responsible for improper installation or defects as a result of installation

Oil Canning is not a reason for rejection of panels

Clip -

INSTALL IN THIS DIRECTION

Unseamed -Profile View