

Width, in.	Gauge	Yield ksi	Weight psf	SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)						
				Top in Compression			Bottom in Compression			Negative Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	1'	1.5'	2'	2.5'	3'	3.5'	4'
12	24	50	1.40	0.0770	0.0846	0.0952	0.1031	0.0955	0.1307	162.5	145.8	129.1	112.5	95.8	79.1	62.5
12	22	50	1.58	0.0967	0.1056	0.1229	0.1275	0.1185	0.1653	212.5	187.5	162.5	137.5	112.5	87.5	62.5
12	20	33	1.93	0.1377	0.1480	0.1886	0.1732	0.1629	0.2382	212.5	187.5	162.5	137.5	112.5	87.5	62.5
12	18	33	2.35	0.1960	0.2079	0.2845	0.2370	0.2251	0.3393	212.5	187.5	162.5	137.5	112.5	87.5	62.5
12	0.032"	19	0.44	0.1820	0.1820	0.3169	0.1820	0.1820	0.2686	125.0	115.8	106.6	97.5	88.3	79.1	70.0
12	0.040"	19	0.53	0.2240	0.2240	0.3313	0.2240	0.2240	0.3947	125.0	115.8	106.6	97.5	88.3	79.1	70.0

- 1a. Theoretical section properties for steel panels have been calculated per AISI S100 Specification for the Design of Cold-Formed Steel Structural Members.
- 1b. Theoretical section properties for aluminum panels have been calculated per the latest edition of the Aluminum Association Design Manual.
2. I_{xx} (eff) values are "effective" stiffness properties for positive (downward) load induced deflection determination.
3. S_{xx} values are to be used for flexural (bending) stress determination for downward (positive) pressure values only.
4. Charted Load/Span values are based on ASTM E1592-02 / ASTM E1592-05 testing protocol.
5. Charted Load/Span values above are based on Allowable Stress Design (ASD).....Load Resistance Factor Design (LRFD) technique not recommended for charted values.
6. Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592 testing) divided by a 2.00 Factor-of-Safety.
7. Charted Allowable Uniform Loads do not consider panel weight (Dead Load) or clip-to-substrate (structure) fastener connection strength.
8. Clip-to-substrate (structure) fastener evaluation must consider the Pry Effect applied to the fastener by the clip base and the analysis should be performed by a licensed structural engineer.



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