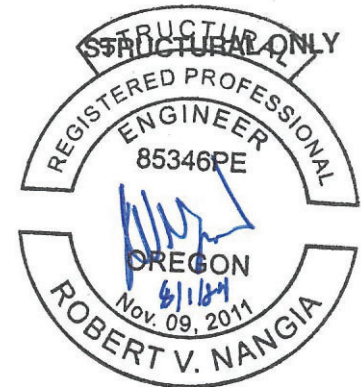


				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)						
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Negative Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2'	2.5'	3'	3.5'	4'	4.5'	5'
12	24	50	1.54	0.0746	0.0722	0.0869	0.0664	0.0688	0.0751	130.1	119.7	109.3	98.9	88.5	78.1	67.7
12	22	50	1.82	0.0942	0.0904	0.1126	0.0812	0.0850	0.0906	130.1	119.7	109.3	98.9	88.5	78.1	67.7
12	20	33	2.21	0.1370	0.1280	0.1687	0.1060	0.1150	0.1212	130.1	119.7	109.3	98.9	88.5	78.1	67.7

- Theoretical section properties for steel panels have been calculated per AISI S100 Specification for the Design of Cold-Formed Steel Structural Members.
- I_{xx} (eff) values are "effective" stiffness properties for positive (downward) load induced deflection determination.
- S_{xx} values are to be used for flexural (bending) stress determination.
- Charted Load/Span values are based on ASTM E1592-05 (2017) testing protocol.
- Charted Load/Span values above are based on Allowable Stress Design (ASD).....Load Resistance Factor Design (LRFD) technique not recommended for charted values.
- Charted Allowable Uniform Loads are based on the Ultimate Uniform Load (per ASTM E1592-05 testing) divided by a 2.00 Factor-of-Safety.
- Charted Allowable Uniform Loads do not consider panel weight (Dead Load) or clip-to-substrate (structure) fastener connection strength.
- Clip-to-substrate (structure) fastener evaluation and analysis should be performed by a licensed structural engineer.
- Panel substrate (structure) may include: open-framing, plywood/OSB, or metal deck.
- Deflection limit consideration for positive (downward) loading is limited to a deflection ratio of L/180 of the span...where "L" is the span in inches.
- Charted Allowable Uniform Loads cannot be increased by 1/3.

				SECTION PROPERTIES						ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)									
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Positive 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'	2'	3'	4'	5'	6'	7'	8'	9'	10'
12	24	50	1.54	0.0746	0.0722	0.0869	0.0664	0.0688	0.0751	105.5	52.7	35.2	26.4	21.1	17.6	15.1	13.2	11.7	10.6
12	22	50	1.82	0.0942	0.0904	0.1126	0.0812	0.0850	0.0906	130.9	65.5	43.6	32.7	26.2	21.8	18.7	16.4	14.6	13.1
12	20	33	2.21	0.1370	0.1280	0.1687	0.1060	0.1150	0.1212	133.6	68.8	44.6	33.4	26.7	22.3	19.09	16.7	14.9	13.4

- Theoretical section properties for steel panels have been calculated per 2020 AISI S100 Specification for the Design of Cold-Formed Steel Structural Members.
- I_{xx} (eff) values are "effective" stiffness properties for positive (downward) load induced deflection determination.
- Allowable load is calculated in accordance with 2020 AISI S100 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- S_{xx} values are to be used for flexural (bending) stress determination.
- Allowable load does not address panel weight, fasteners, connection strength or support material.
- Allowable load includes web crippling.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection is not considered.
- Allowable loads do not include a 1/3 stress increase for wind.
- When panels are installed over solid or closely fitted sheathing, the capacity is limited to the capacity of the underlying sheathing.



EXPIRES: 12/31/2024

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