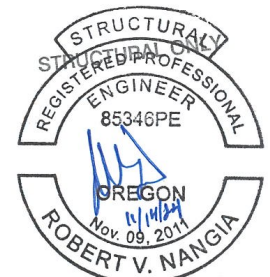


SECTION PROPERTIES										ALLOWABLE UNIFORM LOADS, psf For various clip spacings (i.e. span values)					
Width, in.	Gauge	Yield ksi	Weight psf	Top in Compression			Bottom in Compression			Negative Load					
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	8"	1'	1.5'	2'	2.5'	3'
14	24	50	1.38	0.1160	0.0969	0.0809	0.0500	0.0691	0.0553	138.5	130.0	117.1	104.3	91.4	78.5
14	22	50	1.66	0.1380	0.1161	0.0964	0.0626	0.0845	0.0673	138.5	130.0	117.1	104.3	91.4	78.5
14	20	33	2.03	0.1663	0.1444	0.1162	0.0907	0.1126	0.0897	138.5	130.0	117.1	104.3	91.4	78.5
16	24	50	1.32	0.1020	0.0855	0.0682	0.0451	0.0616	0.0480	116.0	109.6	100.0	90.3	80.7	71.0
16	22	50	1.60	0.1323	0.1116	0.0825	0.0609	0.0816	0.0623	116.0	109.6	100.0	90.3	80.7	71.0
16	20	33	1.95	0.1492	0.1292	0.1027	0.0803	0.1002	0.0786	116.0	109.6	100.0	90.3	80.7	71.0
18	24	50	1.28	0.0920	0.0769	0.0605	0.0400	0.0551	0.0426	101.0	95.7	87.6	79.6	71.5	63.5
18	22	50	1.55	0.1200	0.1009	0.0798	0.0540	0.0731	0.0553	101.0	95.7	87.6	79.6	71.5	63.5
18	20	33	2.46	0.1740	0.1537	0.1179	0.1040	0.1243	0.0953	101.0	95.7	87.6	79.6	71.5	63.5

- 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 UL580/UL1897 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 Member Load (per UL580/UL1897 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 tested over plywood (15/32" min. APA rated) substrate.
- Charted Allowable Uniform Loads do not consider deflection limits of panel.
- Charted Allowable Uniform Loads cannot be increased by 1/3.
- Panel tested using 3.5" long x 18 ga. Steel fixed clip.
- Clip attached to plywood substrate with two (2) #10-13 low-profile pancake head screws.

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.	2'	2.5'	3'	3.5'	4'	4.5'	5'	5.5'	6'	
12	24	50	1.47	0.1299	0.1095	0.0907	0.0596	0.0800	0.0638	278.2	222.6	177.2	130.2	99.7	78.8	63.8	52.7	44.3	
12	22	50	1.88	0.1645	0.1401	0.1157	0.0804	0.1048	0.0827	440.0	330.8	229.7	168.8	129.2	102.1	82.7	68.4	57.4	
12	20	33	2.13	0.1860	0.1628	0.1337	0.1060	0.1292	0.1046	435.8	278.9	193.7	142.3	109.0	86.1	69.7	57.6	48.4	
12	0.032"	19	0.684	0.1770	0.1770	0.1245	0.1770	0.1770	0.4904	50.5	40.4	33.6	28.8	25.2	22.4	20.2			
12	0.040"	19	0.855	0.2170	0.2170	0.1531	0.2170	0.2170	0.6016	76.4	61.1	50.9	43.6	38.2	33.9	30.6	27.5	23.1	
14	24	50	1.38	0.1160	0.0969	0.0809	0.0500	0.0691	0.0553	238.2	190.6	153.6	112.9	86.4	68.3	55.3	45.7	38.4	
14	22	50	1.66	0.1380	0.1161	0.0964	0.0626	0.0845	0.0673	376.8	269.2	186.9	137.4	105.2	83.1	67.3	55.6	46.7	
14	20	33	2.03	0.1663	0.1444	0.1162	0.0907	0.1126	0.0897	373.8	239.2	166.1	122.0	93.4	73.8	59.8	49.4	41.5	
14	0.032"	19	0.651	0.1540	0.1540	0.1080	0.1540	0.1540	0.4790	43.2	34.6	28.8	24.7	21.6					
14	0.040"	19	0.815	0.1900	0.1900	0.1330	0.1900	0.1900	0.5880	65.5	52.4	43.6	37.4	32.7	29.1	26.2	22.7		
16	24	50	1.32	0.1020	0.0855	0.0682	0.0451	0.0616	0.0480	208.6	166.9	133.3	98.0	75.0	59.3	48.0	39.7	33.3	
16	22	50	1.60	0.1323	0.1116	0.0825	0.0609	0.0816	0.0623	330.0	249.2	173.1	127.1	97.3	76.9	62.3	51.5	43.3	
16	20	33	1.95	0.1492	0.1292	0.1027	0.0803	0.1002	0.0786	327.5	209.6	145.6	106.9	81.9	64.7	52.4	43.3	36.4	
16	0.032"	19	0.627	0.1390	0.1390	0.0958	0.1390	0.1390	0.4740	37.7	30.2	25.2	21.6						
16	0.040"	19	0.784	0.1750	0.1750	0.1180	0.1750	0.1750	0.5830	57.3	45.8	38.2	32.7	28.6	25.5	22.9			
18	24	50	1.28	0.0920	0.0769	0.0605	0.0400	0.0551	0.0426	185.5	148.4	118.3	86.9	66.6	52.6	42.6	35.2	29.6	
18	22	50	1.55	0.1200	0.1009	0.0798	0.0540	0.0731	0.0553	293.2	221.2	153.6	112.9	86.4	68.3	55.3	45.7	38.4	
18	20	33	2.46	0.1740	0.1537	0.1179	0.1040	0.1243	0.0953	295.5	236.4	176.5	129.7	99.3	78.4	63.5	52.5	44.1	
18	0.032"	19	0.608	0.1270	0.1270	0.0857	0.1270	0.1270	0.4670	33.6	26.9	22.4							
18	0.040"	19	0.760	0.1590	0.1590	0.1060	0.1590	0.1590	0.5740	50.9	40.7	33.9	29.1	25.5	22.6	20.4			

- Theoretical section properties for Steel panels have been calculated per 2020 AISI S100 North American Specification for the Design of Cold-Formed Steel Structural Member. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Theoretical section properties for Aluminum panels have been calculated per the 2020 edition of the Aluminum Association's Design Manual. I_{xx} and S_{xx} are effective section properties for deflection and bending.
- Allowable loads for Steel panels are 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.
- Allowable loads for Aluminum panels are calculated in accordance with the 2020 edition of the Aluminum Association's Design Manual considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- 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.
- The Versa-Span Panel when installed as a three-span condition with spans of 5 ft. on-center for Steel and 2.0 ft. on-center for Aluminum are capable of withstanding the minimum uniform distributed load of 20 psf (0.958 kPa) noted in Table 1607.1 of the IBC and a minimum concentrated load of 300 lbf (1.33 kN).
- When panels are installed over solid or closely fitted deck sheathing, the capacity is limited to the capacity of the underlying sheathing.



EXPIRES: 12/31/2024

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