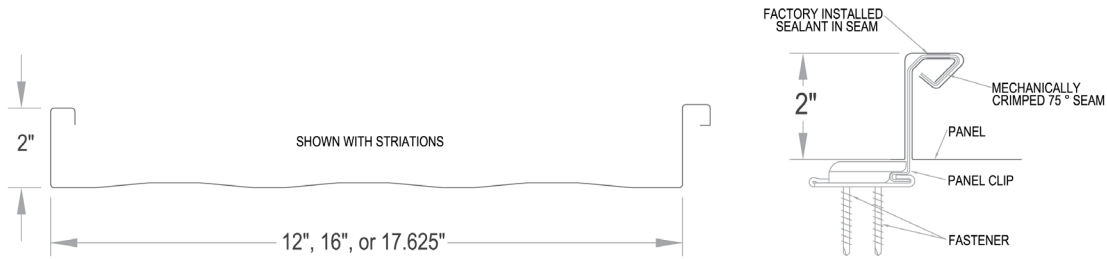




SPAN-LOCK SL20 STEEL



180 Deflection

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (single span)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	286.7	199.1	146.3	112.0	88.5	71.7	59.2
22	12	50	1.88	0.2712	0.2300	0.1165	372.8	258.9	190.2	145.6	115.1	93.2	77.0
24	16	50	1.36	0.1790	0.1490	0.0660	211.2	146.7	107.8	82.5	65.2	52.8	43.6
22	16	50	1.71	0.2220	0.1860	0.0878	281.0	195.1	143.4	109.8	86.7	70.2	58.1
24	18	50	1.28	0.1620	0.1350	0.0590	188.8	131.1	96.3	73.8	58.3	47.2	39.0
22	18	50	1.61	0.2010	0.1770	0.0780	249.6	173.3	127.4	97.5	77.0	62.4	51.6

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (two equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	286.7	199.1	146.3	112.0	88.5	71.7	59.2
22	12	50	1.88	0.2712	0.2300	0.1165	372.8	258.9	190.2	145.6	115.1	93.2	77.0
24	16	50	1.36	0.1790	0.1490	0.0660	211.2	146.7	107.8	82.5	65.2	52.8	43.6
22	16	50	1.71	0.2220	0.1860	0.0878	281.0	195.1	143.4	109.8	86.7	70.2	58.1
24	18	50	1.28	0.1620	0.1350	0.0590	188.8	131.1	96.3	73.8	58.3	47.2	39.0
22	18	50	1.61	0.2010	0.1770	0.0780	249.6	173.3	127.4	97.5	77.0	62.4	51.6

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (three equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft.	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	358.4	248.9	182.9	140.0	110.6	89.6	74.1
22	12	50	1.88	0.2712	0.2300	0.1165	466.0	323.6	237.8	182.0	143.8	116.5	96.3
24	16	50	1.36	0.1790	0.1490	0.0660	264.0	183.3	134.7	103.1	81.5	66.0	54.6
22	16	50	1.71	0.2220	0.1860	0.0878	351.2	243.9	179.2	137.2	108.4	87.8	72.6
24	18	50	1.28	0.1620	0.1350	0.0590	236.0	163.9	120.4	92.2	72.8	59.0	48.8
22	18	50	1.61	0.2010	0.1770	0.0780	312.0	216.7	159.2	121.9	96.3	78.0	64.5



SPAN-LOCK SL20 STEEL

240 Deflection

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (single span)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	286.7	199.1	146.3	112.0	88.5	71.7	59.2
22	12	50	1.88	0.2712	0.2300	0.1165	372.8	258.9	190.2	145.6	115.1	93.2	77.0
24	16	50	1.36	0.1790	0.1490	0.0660	211.2	146.7	107.8	82.5	65.2	52.8	43.6
22	16	50	1.71	0.2220	0.1860	0.0878	281.0	195.1	143.4	109.8	86.7	70.2	58.1
24	18	50	1.28	0.1620	0.1350	0.0590	188.8	131.1	96.3	73.8	58.3	47.2	39.0
22	18	50	1.61	0.2010	0.1770	0.0780	249.6	173.3	127.4	97.5	77.0	62.4	51.6

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (two equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	286.7	199.1	146.3	112.0	88.5	71.7	59.2
22	12	50	1.88	0.2712	0.2300	0.1165	372.8	258.9	190.2	145.6	115.1	93.2	77.0
24	16	50	1.36	0.1790	0.1490	0.0660	211.2	146.7	107.8	82.5	65.2	52.8	43.6
22	16	50	1.71	0.2220	0.1860	0.0878	281.0	195.1	143.4	109.8	86.7	70.2	58.1
24	18	50	1.28	0.1620	0.1350	0.0590	188.8	131.1	96.3	73.8	58.3	47.2	39.0
22	18	50	1.61	0.2010	0.1770	0.0780	249.6	173.3	127.4	97.5	77.0	62.4	51.6

SECTION PROPERTIES							ALLOWABLE UNIFORM LOADS, psf (three equal spans)						
Ga.	Width in.	Yield ksi	Weight psf	Top in Compression			Inward Load						
				I_{xx} in ⁴ /ft.	I_{xx} (eff) in ⁴ /ft.	S_{xx} in ³ /ft	2.5'	3.0'	3.5'	4.0'	4.5'	5.0'	5.5'
24	12	50	1.47	0.2196	0.1860	0.0896	358.4	248.9	182.9	140.0	110.6	89.6	74.1
22	12	50	1.88	0.2712	0.2300	0.1165	466.0	323.6	237.8	182.0	143.8	116.5	96.3
24	16	50	1.36	0.1790	0.1490	0.0660	264.0	183.3	134.7	103.1	81.5	66.0	54.6
22	16	50	1.71	0.2220	0.1860	0.0878	351.2	243.9	179.2	137.2	108.4	87.8	72.6
24	18	50	1.28	0.1620	0.1350	0.0590	236.0	163.9	120.4	92.2	72.8	59.0	48.8
22	18	50	1.61	0.2010	0.1770	0.0780	312.0	216.7	159.2	121.9	96.3	78.0	64.5

NOTES:

- Theoretical section properties have been calculated per AISI 2012 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.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of L/180 or L/240 of span.
- Allowable loads do not include a 1/3 stress increase for wind.