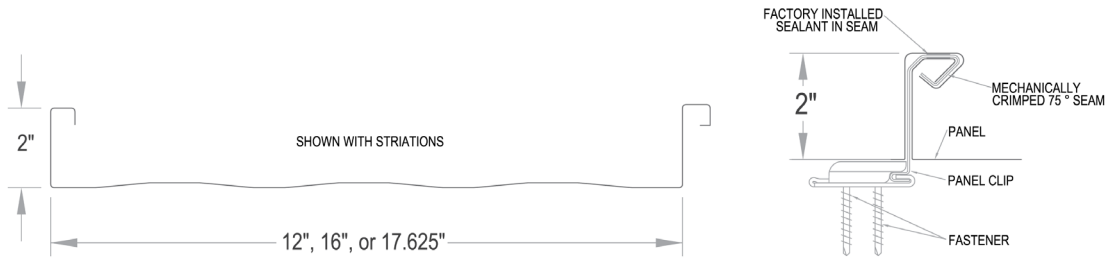




SPAN-LOCK SL20 ALUMINUM



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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	92.9	64.5	47.4	36.3	28.7	23.2	19.2
0.040	12	19	0.855	0.3870	0.3870	0.8075	143.8	99.9	73.4	56.2	44.4	36.0	29.7
0.032	16	19	0.640	0.2540	0.2540	0.6390	67.5	46.9	34.4	26.4	20.8	16.9	13.9
0.040	16	19	0.790	0.3390	0.3390	0.7860	104.8	72.8	53.5	40.9	32.4	26.2	21.7
0.032	18	19	0.620	0.2470	0.2470	0.6310	89.5	62.2	45.7	35.0	27.6	22.4	18.5
0.040	18	19	0.760	0.2830	0.2830	0.7760	91.9	63.8	46.9	35.9	28.4	23.0	19.0

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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	92.9	64.5	47.4	36.3	28.7	23.2	19.2
0.040	12	19	0.855	0.3870	0.3870	0.8075	143.8	99.9	73.4	56.2	44.4	36.0	29.7
0.032	16	19	0.640	0.2540	0.2540	0.6390	67.5	46.9	34.4	26.4	20.8	16.9	13.9
0.040	16	19	0.790	0.3390	0.3390	0.7860	104.8	72.8	53.5	40.9	32.4	26.2	21.7
0.032	18	19	0.620	0.2470	0.2470	0.6310	89.5	62.2	45.7	35.0	27.6	22.4	18.5
0.040	18	19	0.760	0.2830	0.2830	0.7760	91.9	63.8	46.9	35.9	28.4	23.0	19.0

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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	116.2	80.7	59.3	54.4	35.9	29.0	24.0
0.040	12	19	0.855	0.3870	0.3870	0.8075	179.8	124.9	91.7	70.2	55.5	45.0	37.2
0.032	16	19	0.640	0.2540	0.2540	0.6390	84.4	58.6	43.0	33.0	26.0	21.1	17.4
0.040	16	19	0.790	0.3390	0.3390	0.7860	131.0	91.0	66.8	51.2	40.4	32.8	27.1
0.032	18	19	0.620	0.2470	0.2470	0.6310	111.9	77.7	57.1	43.7	34.5	28.0	23.1
0.040	18	19	0.760	0.2830	0.2830	0.7760	114.9	79.8	58.6	44.9	35.5	28.7	23.7



SPAN-LOCK SL20 ALUMINUM

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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	92.9	64.5	47.4	36.3	28.7	23.2	19.2
0.040	12	19	0.855	0.3870	0.3870	0.8075	143.8	99.9	73.4	56.2	44.4	36.0	29.7
0.032	16	19	0.640	0.2540	0.2540	0.6390	67.5	46.9	34.4	26.4	20.8	16.9	13.9
0.040	16	19	0.790	0.3390	0.3390	0.7860	104.8	72.8	53.5	40.9	32.4	26.2	21.7
0.032	18	19	0.620	0.2470	0.2470	0.6310	89.5	62.2	45.7	35.0	27.6	22.4	18.5
0.040	18	19	0.760	0.2830	0.2830	0.7760	91.9	63.8	46.9	35.9	28.4	23.0	19.0

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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	92.9	64.5	47.4	36.3	28.7	23.2	19.2
0.040	12	19	0.855	0.3870	0.3870	0.8075	143.8	99.9	73.4	56.2	44.4	36.0	29.7
0.032	16	19	0.640	0.2540	0.2540	0.6390	67.5	46.9	34.4	26.4	20.8	16.9	13.9
0.040	16	19	0.790	0.3390	0.3390	0.7860	104.8	72.8	53.5	40.9	32.4	26.2	21.7
0.032	18	19	0.620	0.2470	0.2470	0.6310	89.5	62.2	45.7	35.0	27.6	22.4	18.5
0.040	18	19	0.760	0.2830	0.2830	0.7760	91.9	63.8	46.9	35.9	28.4	23.0	19.0

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'
0.032	12	19	0.700	0.3150	0.3150	0.6554	116.2	80.7	59.3	54.4	35.9	29.0	24.0
0.040	12	19	0.855	0.3870	0.3870	0.8075	179.8	124.9	91.7	70.2	55.5	45.0	37.2
0.032	16	19	0.640	0.2540	0.2540	0.6390	84.4	58.6	43.0	33.0	26.0	21.1	17.4
0.040	16	19	0.790	0.3390	0.3390	0.7860	131.0	91.0	66.8	51.2	40.4	32.8	27.1
0.032	18	19	0.620	0.2470	0.2470	0.6310	111.9	77.7	57.1	43.7	34.5	28.0	23.1
0.040	18	19	0.760	0.2830	0.2830	0.7760	114.9	79.8	58.6	44.9	35.5	28.7	23.7

NOTES:

1. Theoretical section properties have been calculated per the latest edition of the Aluminum Association's Design Manual. I_{xx} and S_{xx} are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with the latest 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.
3. Allowable load does not address panel weight, fasteners, connection strength or support material.
4. Allowable load includes web crippling.
5. Load/Span values are based on theoretical computations and not load testing.
6. Deflection consideration is limited by a maximum deflection ratio of $L/180$ or $L/240$ of span.
7. Allowable loads do not include a $1/3$ stress increase for wind.