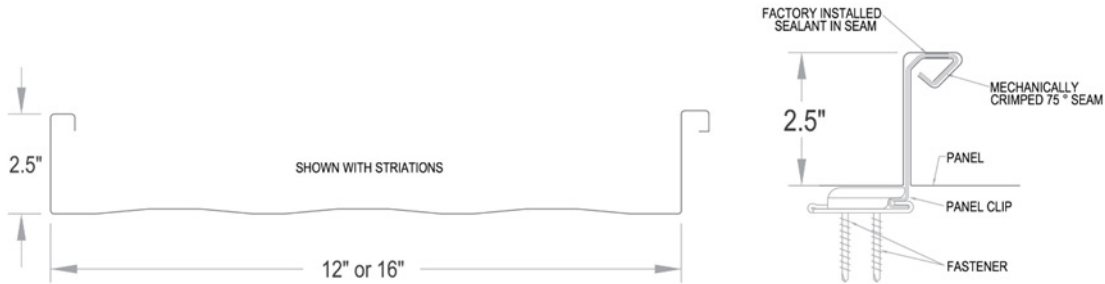




SPAN-LOCK SL25 ALUMINUM



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	0.5310	0.5310	0.8356	118.4	82.2	60.4	46.3	36.5	29.6	24.5
0.040	12	19	0.855	0.6530	0.6530	1.0310	183.7	127.5	93.7	71.7	56.7	45.9	38.0
0.032	16	19	0.838	0.4290	0.4290	0.8120	85.8	59.6	43.8	33.5	26.5	21.4	17.7
0.040	16	19	1.035	0.5290	0.5290	1.0020	178.5	124.0	91.1	69.7	55.1	44.6	36.9

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	118.4	82.2	60.4	46.3	36.5	29.6	24.5
0.040	12	19	0.855	0.3870	0.3870	0.8075	183.7	127.5	93.7	71.7	56.7	45.9	38.0
0.032	16	19	0.838	0.4290	0.4290	0.8120	85.8	59.6	43.8	33.5	26.5	21.4	17.7
0.040	16	19	1.035	0.3390	0.3390	0.7860	178.5	124.0	91.1	69.7	55.1	44.6	36.9

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	148.0	102.8	75.5	57.8	45.7	37.0	30.6
0.040	12	19	0.855	0.3870	0.3870	0.8075	229.6	159.4	117.1	89.7	70.9	57.4	47.4
0.032	16	19	0.838	0.4290	0.4290	0.8120	107.2	74.4	54.7	41.9	33.1	26.8	22.2
0.040	16	19	1.035	0.3390	0.3390	0.7860	223.1	154.9	113.8	87.2	68.9	55.8	46.1



SPAN-LOCK SL25 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	0.5310	0.5310	0.8356	118.4	82.2	60.4	46.3	36.5	29.6	24.5
0.040	12	19	0.855	0.6530	0.6530	1.0310	183.7	127.5	93.7	71.7	56.7	45.9	38.0
0.032	16	19	0.838	0.4290	0.4290	0.8120	85.8	59.6	43.8	33.5	26.5	21.4	17.7
0.040	16	19	1.035	0.3390	0.3390	0.7860	178.5	124.0	91.1	69.7	55.1	44.6	36.9

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	0.5310	0.5310	0.8356	118.4	82.2	60.4	46.3	36.5	29.6	24.5
0.040	12	19	0.855	0.6530	0.6530	1.0310	183.7	127.5	93.7	71.7	56.7	45.9	38.0
0.032	16	19	0.838	0.4290	0.4290	0.8120	85.8	59.6	43.8	33.5	26.5	21.4	17.7
0.040	16	19	1.035	0.3390	0.3390	0.7860	178.5	124.0	91.1	69.7	55.1	44.6	36.9

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	0.5310	0.5310	0.8356	148.0	102.8	75.5	57.8	45.7	37.0	30.6
0.040	12	19	0.855	0.6530	0.6530	1.0310	229.6	159.4	117.1	89.7	70.9	57.4	47.4
0.032	16	19	0.838	0.4290	0.4290	0.8120	84.4	58.6	43.0	33.0	26.0	21.1	17.4
0.040	16	19	1.035	0.3390	0.3390	0.7860	223.1	154.9	113.8	87.2	68.9	55.8	46.1

NOTES:

- 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.
- 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.
- 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 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.