

SSS2-16 x 24ga



PANEL SECTION PROPERTIES --- PER FOOT OF WIDTH

GAUGE	Fy (ksi)	WEIGHT (psf)	SHEAR Va (lbs / ft)	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
				Ix (in4 / ft)	Sx (in3 / ft)	Ma (in.-k)	Ix (in4 / ft)	Sx (in3 / ft)	Ma (in.-k)
24	50	1.268	785	0.1590	0.0962	2.8778	0.0728	0.0670	2.0040

Notes:

1. Fy is the yield strength of the base metal.
2. Va is the allowable vertical shear of the panel.
3. Ix is the effective moment of inertia of the panel per foot of width.
4. Sx is the effective section modulus of the panel per foot of width.
5. Ma is the allowable bending moment of the panel per foot of width.
6. All properties are calculated in accordance with the 2007 North American Specification for the Design of Cold-Formed Steel Structural Members.

ASD - ALLOWABLE UNIFORM LOAD (psf)

SPANS	LOAD TYPE	SPAN (FEET)							
		2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
1	LIVE	479	306	213	156	119	94	76	63
	NEGATIVE WIND	334	213	148	109	83	65	53	44
	DEFL. (L / 180)	479	306	213	156	119	94	76	63
	DEFL. (L / 240)	479	306	213	156	119	94	76	61
2	LIVE	294	196	139	104	80	64	52	43
	NEGATIVE WIND	381	261	189	143	112	89	73	61
	DEFL. (L / 180)	294	196	139	104	80	64	52	43
	DEFL. (L / 240)	294	196	139	104	80	64	52	43
3	LIVE	351	237	170	128	99	79	64	53
	NEGATIVE WIND	441	309	227	170	130	103	83	69
	DEFL. (L / 180)	351	237	170	128	99	79	64	53
	DEFL. (L / 240)	351	237	170	128	99	79	64	53
4	LIVE	333	224	160	120	93	74	60	50
	NEGATIVE WIND	423	294	215	163	128	103	84	70
	DEFL. (L / 180)	333	224	160	120	93	74	60	50
	DEFL. (L / 240)	333	224	160	120	93	74	60	50

Notes:

1. Loads have NOT been increased by 1/3.
2. Span lengths are assumed to be equal.
3. Self weight of panel has not been deducted from tabular values.
4. Both Wind and Live "Load Type" values have considered combined bending and shear.
5. Effects of web crippling and fastener/support connection have not been considered..
6. All values have been calculated in accordance with the 2007 North American Specification for the Design of Cold-Formed Steel Structural Members.
7. Deflection values are capped at the Live load value.