

SC175 X 16" COVER



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)
0.032" AL	18	0.625	614	0.1223	0.0816	0.8790	0.0668	0.0584	0.6293

- 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	146	93	65	47	36	28	23	19
	NEGATIVE WIND	104	67	46	34	26	20	16	13
	DEFL. (L / 180)	146	93	65	47	36	28	23	19
	DEFL. (L / 240)	146	93	65	47	36	28	21	16
2	LIVE	102	66	46	33	26	20	16	13
	NEGATIVE WIND	140	91	63	47	36	28	23	19
	DEFL. (L / 180)	102	66	46	33	26	20	16	13
	DEFL. (L / 240)	102	66	46	33	26	20	16	13
3	LIVE	126	82	57	42	32	25	20	17
	NEGATIVE WIND	163	104	72	53	40	32	26	21
	DEFL. (L / 180)	126	82	57	42	32	25	20	17
	DEFL. (L / 240)	126	82	57	42	32	25	20	17
4	LIVE	118	76	53	39	30	24	19	16
	NEGATIVE WIND	161	105	74	54	42	33	27	22
	DEFL. (L / 180)	118	76	53	39	30	24	19	16
	DEFL. (L / 240)	118	76	53	39	30	24	19	16

- 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.