

SC175 X 18" COVER



PANEL SECTION PROPERTIES --- PER FOOT OF WIDTH

GAUGE	Fy	WEIGHT	SHEAR Va	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
				Ix	Sx	Ma	Ix	Sx	Ma
	(ksi)	(psf)	(lbs / ft)	(in4 / ft)	(in3 / ft)	(in.-k)	(in4 / ft)	(in3 / ft)	(in.-k)
22	50	1.533	1318	0.0987	0.0650	1.9453	0.0500	0.0449	1.3433

- 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	324	207	144	105	81	64	51	42
	NEGATIVE WIND	223	143	99	73	55	44	35	29
	DEFL. (L / 180)	324	207	144	105	81	64	51	42
	DEFL. (L / 240)	324	207	144	105	81	64	50	38
2	LIVE	219	141	98	72	55	44	35	29
	NEGATIVE WIND	309	201	141	104	80	63	51	42
	DEFL. (L / 180)	219	141	98	72	55	44	35	29
	DEFL. (L / 240)	219	141	98	72	55	44	35	29
3	LIVE	271	175	122	90	69	54	44	36
	NEGATIVE WIND	349	223	155	114	87	69	55	46
	DEFL. (L / 180)	271	175	122	90	69	54	44	36
	DEFL. (L / 240)	271	175	122	90	69	54	44	36
4	LIVE	254	164	114	84	64	51	41	34
	NEGATIVE WIND	357	232	161	118	90	71	58	47
	DEFL. (L / 180)	254	164	114	84	64	51	41	34
	DEFL. (L / 240)	254	164	114	84	64	51	41	34

- 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.