

# SC175 X 12" 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)
24	50	1.330	1244	0.1094	0.0737	2.2080	0.0538	0.0515	1.5420

- 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
<b>1</b>	LIVE	368	235	163	120	92	72	58	48
	NEGATIVE WIND	257	164	114	83	64	50	41	33
	DEFL. (L / 180)	368	235	163	120	92	72	58	48
	DEFL. (L / 240)	368	235	163	120	92	72	56	42
<b>2</b>	LIVE	248	161	112	83	63	50	40	33
	NEGATIVE WIND	345	225	158	117	90	71	58	48
	DEFL. (L / 180)	248	161	112	83	63	50	40	33
	DEFL. (L / 240)	248	161	112	83	63	50	40	33
<b>3</b>	LIVE	306	199	139	103	79	62	51	42
	NEGATIVE WIND	401	257	178	131	100	79	64	53
	DEFL. (L / 180)	306	199	139	103	79	62	51	42
	DEFL. (L / 240)	306	199	139	103	79	62	51	42
<b>4</b>	LIVE	287	186	130	96	74	58	47	39
	NEGATIVE WIND	396	260	183	135	104	82	66	55
	DEFL. (L / 180)	287	186	130	96	74	58	47	39
	DEFL. (L / 240)	287	186	130	96	74	58	47	39

- 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.