

# SC175 X 16" 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)
24	50	1.252	975	0.0893	0.0572	1.7130	0.0420	0.0397	1.1880

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	285	182	126	93	71	56	45	37
	NEGATIVE WIND	198	126	88	64	49	39	31	26
	DEFL. (L / 180)	285	182	126	93	71	56	45	37
	DEFL. (L / 240)	285	182	126	93	71	56	45	34
<b>2</b>	LIVE	191	124	86	63	49	38	31	26
	NEGATIVE WIND	268	175	123	91	70	55	45	37
	DEFL. (L / 180)	191	124	86	63	49	38	31	26
	DEFL. (L / 240)	191	124	86	63	49	38	31	26
<b>3</b>	LIVE	236	153	107	79	61	48	39	32
	NEGATIVE WIND	309	198	137	101	77	61	49	40
	DEFL. (L / 180)	236	153	107	79	61	48	39	32
	DEFL. (L / 240)	236	153	107	79	61	48	39	32
<b>4</b>	LIVE	222	144	100	74	57	45	36	30
	NEGATIVE WIND	307	202	142	104	80	63	51	42
	DEFL. (L / 180)	222	144	100	74	57	45	36	30
	DEFL. (L / 240)	222	144	100	74	57	45	36	30

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.