

SC175 X 18" 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	1.215	867	0.0813	0.0510	1.5267	0.0373	0.0353	1.0560

- 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	254	162	113	83	63	50	40	33
	NEGATIVE WIND	176	112	78	57	44	34	28	23
	DEFL. (L / 180)	254	162	113	83	63	50	40	33
	DEFL. (L / 240)	254	162	113	83	63	50	40	31
2	LIVE	170	110	77	56	43	34	28	23
	NEGATIVE WIND	238	156	109	81	62	49	40	33
	DEFL. (L / 180)	170	110	77	56	43	34	28	23
	DEFL. (L / 240)	170	110	77	56	43	34	28	23
3	LIVE	210	136	95	70	54	43	34	28
	NEGATIVE WIND	275	176	122	89	68	54	44	36
	DEFL. (L / 180)	210	136	95	70	54	43	34	28
	DEFL. (L / 240)	210	136	95	70	54	43	34	28
4	LIVE	197	128	89	66	50	40	32	27
	NEGATIVE WIND	274	180	126	93	71	56	45	37
	DEFL. (L / 180)	197	128	89	66	50	40	32	27
	DEFL. (L / 240)	197	128	89	66	50	40	32	27

- 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.