

PANEL SECTION PROPERTIES --- PER FOOT OF WIDTH

GAUGE	Fy	WEIGHT	SHEAR Va	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
	(ksi)			(psf)	(lbs / ft)	Ix (in4 / ft)	Sx (in3 / ft)	Ma (in.-k)	Ix (in4 / ft)
24	50	1.020	1432	0.0085	0.0313	0.9375	0.0085	0.0313	0.9375

- 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)							
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
1	LIVE	625	277	156	100	69	51	39	30
	NEGATIVE WIND	625	277	156	100	69	51	39	30
	DEFL. (L / 180)	625	216	91	46	27	17	11	8
	DEFL. (L / 240)	547	162	68	35	20	12	8	6
2	LIVE	602	273	154	99	69	50	38	30
	NEGATIVE WIND	602	273	154	99	69	50	38	30
	DEFL. (L / 180)	602	273	154	99	65	41	27	19
	DEFL. (L / 240)	602	273	154	84	48	30	20	14
3	LIVE	742	339	192	123	86	63	48	38
	NEGATIVE WIND	742	339	192	123	86	63	48	38
	DEFL. (L / 180)	742	339	172	88	51	32	21	15
	DEFL. (L / 240)	742	306	129	66	38	24	16	11
4	LIVE	696	317	180	115	80	59	45	35
	NEGATIVE WIND	696	317	180	115	80	59	45	35
	DEFL. (L / 180)	696	317	180	93	54	34	22	16
	DEFL. (L / 240)	696	317	137	70	40	25	17	12

- 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 have not been considered 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. For use of COR25 Panel without continuous structural substrate in a roof application, the maximum span for the Steel Deck Institute's Construction and Maintenance is 1'-7" for Single Span or 2'-0" for Multiple Span.
 8. Deflection values are capped at the Live load value.