

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	1.128	834	0.0643	0.0626	1.8733	0.0503	0.0606	1.8133

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	312	199	138	101	78	61	49	41
	NEGATIVE WIND	302	193	134	98	75	59	48	39
	DEFL. (L / 180)	312	199	138	101	78	60	44	33
	DEFL. (L / 240)	312	199	138	96	64	45	33	24
2	LIVE	275	181	128	95	73	58	47	39
	NEGATIVE WIND	282	187	132	98	76	60	49	40
	DEFL. (L / 180)	275	181	128	95	73	58	47	39
	DEFL. (L / 240)	275	181	128	95	73	58	47	39
3	LIVE	331	221	157	117	91	72	59	49
	NEGATIVE WIND	340	227	162	121	93	74	60	50
	DEFL. (L / 180)	331	221	157	117	91	72	59	49
	DEFL. (L / 240)	331	221	157	117	91	72	59	47
4	LIVE	313	208	148	110	85	67	55	45
	NEGATIVE WIND	321	214	152	113	88	70	57	47
	DEFL. (L / 180)	313	208	148	110	85	67	55	45
	DEFL. (L / 240)	313	208	148	110	85	67	55	45

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.
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 PBR 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.