

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)
26	80	0.829	463	0.0427	0.0404	1.4523	0.0337	0.0444	1.5933

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	242	154	107	79	60	47	38	32
	NEGATIVE WIND	265	169	118	86	66	52	42	35
	DEFL. (L / 180)	242	154	107	79	57	40	29	22
	DEFL. (L / 240)	242	154	101	64	42	30	21	16
2	LIVE	215	147	106	80	62	49	40	33
	NEGATIVE WIND	202	137	98	74	57	45	37	31
	DEFL. (L / 180)	215	147	106	80	62	49	40	33
	DEFL. (L / 240)	215	147	106	80	62	49	40	33
3	LIVE	251	175	127	97	76	61	50	41
	NEGATIVE WIND	238	164	119	90	70	56	46	38
	DEFL. (L / 180)	251	175	127	97	76	61	50	41
	DEFL. (L / 240)	251	175	127	97	76	56	41	31
4	LIVE	240	166	121	91	71	57	47	39
	NEGATIVE WIND	227	155	112	84	66	53	43	36
	DEFL. (L / 180)	240	166	121	91	71	57	47	39
	DEFL. (L / 240)	240	166	121	91	71	57	44	33

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.