

# 1000VR / 2000VR PANELS



## PANEL SECTION PROPERTIES --- PER FOOT OF WIDTH

GAUGE	Fy	WEIGHT	SHEAR	TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
	(ksi)		Va	Ix	Sx	Ma	Ix	Sx	Ma
	(psf)	(lbs / ft)	(in4 / ft)	(in3 / ft)	(in.-k)	(in4 / ft)	(in3 / ft)	(in.-k)	
29	80	0.574	396	0.0093	0.0157	0.5637	0.0060	0.0135	0.4837

- 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	93	60	41	30	23	18	15	12
	NEGATIVE WIND	80	51	35	26	20	15	12	10
	DEFL. (L / 180)	93	51	29	18	12	8	6	4
	DEFL. (L / 240)	75	38	22	14	9	6	4	3
<b>2</b>	LIVE	78	50	35	26	19	15	12	10
	NEGATIVE WIND	90	58	40	30	23	18	14	12
	DEFL. (L / 180)	78	50	35	26	19	15	12	10
	DEFL. (L / 240)	78	50	35	26	19	15	11	8
<b>3</b>	LIVE	96	62	43	32	24	19	16	13
	NEGATIVE WIND	110	72	50	37	28	22	18	15
	DEFL. (L / 180)	96	62	43	32	23	16	12	9
	DEFL. (L / 240)	96	62	42	26	17	12	9	6
<b>4</b>	LIVE	90	58	41	30	23	18	14	12
	NEGATIVE WIND	103	67	47	35	27	21	17	14
	DEFL. (L / 180)	90	58	41	30	23	17	12	9
	DEFL. (L / 240)	90	58	41	28	18	13	9	7

- 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. For use of VR 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.