

3000VR / 4000VR PANELS



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)
29	80	0.607	442	0.0100	0.0167	0.5983	0.0063	0.0143	0.5130

- 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	99	63	44	32	24	19	15	13
	NEGATIVE WIND	85	54	38	27	21	16	13	11
	DEFL. (L / 180)	99	54	31	20	13	9	6	5
	DEFL. (L / 240)	80	41	23	15	10	7	5	3
2	LIVE	83	53	37	27	21	16	13	11
	NEGATIVE WIND	95	62	43	32	24	19	15	13
	DEFL. (L / 180)	83	53	37	27	21	16	13	11
	DEFL. (L / 240)	83	53	37	27	21	16	12	9
3	LIVE	102	66	46	34	26	20	16	14
	NEGATIVE WIND	118	77	54	39	30	24	19	16
	DEFL. (L / 180)	102	66	46	34	25	17	12	9
	DEFL. (L / 240)	102	66	45	28	19	13	9	7
4	LIVE	96	62	43	32	24	19	15	13
	NEGATIVE WIND	110	72	50	37	28	22	18	15
	DEFL. (L / 180)	96	62	43	32	24	18	13	10
	DEFL. (L / 240)	96	62	43	30	20	14	10	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.