

100VR PANEL



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	0.557	376	0.0090	0.0153	0.5483	0.0060	0.0131	0.4713

- 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	91	58	40	29	22	18	14	12
	NEGATIVE WIND	78	50	34	25	19	15	12	10
	DEFL. (L / 180)	91	49	28	18	12	8	6	4
	DEFL. (L / 240)	72	37	21	13	9	6	4	3
2	LIVE	76	49	34	25	19	15	12	10
	NEGATIVE WIND	87	56	39	29	22	17	14	12
	DEFL. (L / 180)	76	49	34	25	19	15	12	10
	DEFL. (L / 240)	76	49	34	25	19	15	11	8
3	LIVE	93	60	42	31	24	19	15	12
	NEGATIVE WIND	107	70	49	36	28	22	18	14
	DEFL. (L / 180)	93	60	42	31	22	16	11	8
	DEFL. (L / 240)	93	60	40	25	17	12	8	6
4	LIVE	87	57	39	29	22	17	14	12
	NEGATIVE WIND	100	65	46	34	26	20	16	13
	DEFL. (L / 180)	87	57	39	29	22	17	12	9
	DEFL. (L / 240)	87	57	39	27	18	12	9	6

- 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.