

COR25 GALVANIZED



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	0.598	767	0.0050	0.0190	0.6615	0.0050	0.0195	0.6390

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)							
		1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
1	LIVE	441	196	110	70	49	36	27	21
	NEGATIVE WIND	426	189	106	68	47	34	26	21
	DEFL. (L / 180)	429	127	53	27	15	10	6	4
	DEFL. (L / 240)	322	95	40	20	11	7	5	3
2	LIVE	402	184	104	67	47	34	26	20
	NEGATIVE WIND	414	190	108	69	48	35	27	21
	DEFL. (L / 180)	402	184	104	66	38	24	16	11
	DEFL. (L / 240)	402	184	97	49	28	18	12	8
3	LIVE	491	228	130	84	58	43	33	26
	NEGATIVE WIND	506	235	134	86	60	44	34	27
	DEFL. (L / 180)	491	228	101	51	30	18	12	8
	DEFL. (L / 240)	491	180	76	38	22	14	9	6
4	LIVE	462	213	121	78	54	40	30	24
	NEGATIVE WIND	476	220	126	81	56	41	32	25
	DEFL. (L / 180)	462	213	107	55	31	20	13	9
	DEFL. (L / 240)	462	191	80	41	23	15	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 have not been considered 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 COR25 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.