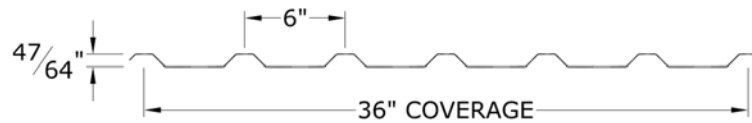




U-Panel

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (ksi)	WEIGHT (psf)	V _a (kip/ft.)	P _{a_end} (lbs/ft.)	P _{a_int} (lbs/ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)
29	80.0	0.66	0.5770	199.30	283.73	0.0120	0.0220	0.6597	0.0087	0.0206	0.7397

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
Single	Positive Wind	195	109	70	48	35	27	21	17	14	12	10	8	7	6	6	5
	Negative Wind	219	123	78	54	40	30	24	19	16	13	11	10	8	7	6	6
	Live	195	109	70	48	35	27	21	17	14	12	10	8	7	6	6	5
	Deflection (L/180)	310	131	67	38	24	16	11	8	6	4	3	3	2	2	1	1
	Deflection (L/240)	233	98	50	29	18	12	8	6	4	3	2	2	1	1	1	1
2 Span	Positive Wind	206	119	77	53	39	30	24	19	16	13	11	10	8	7	6	6
	Negative Wind	186	106	69	48	35	27	21	17	14	12	10	8	7	6	6	5
	Live	206	119	77	53	39	30	24	19	16	13	11	10	8	7	6	6
	Deflection (L/180)	500	271	139	80	50	33	23	17	13	10	7	6	5	4	3	2
	Deflection (L/240)	483	203	104	60	38	25	17	13	9	7	5	4	3	3	2	2
3 Span	Positive Wind	251	146	95	66	49	38	30	24	20	17	14	12	10	9	8	7
	Negative Wind	228	132	85	60	44	34	26	21	18	15	12	11	9	8	7	6
	Live	251	146	95	66	49	38	30	24	20	17	14	12	10	9	8	7
	Deflection (L/180)	500	213	109	63	39	26	18	13	10	7	6	4	4	3	2	2
	Deflection (L/240)	378	159	81	47	29	19	14	10	7	5	4	3	3	2	2	1
4 Span	Positive Wind	237	137	89	62	46	35	28	22	18	15	13	11	10	8	7	7
	Negative Wind	214	123	80	56	41	31	25	20	16	14	12	10	9	7	7	6
	Live	237	137	89	62	46	35	28	22	18	15	13	11	10	8	7	7
	Deflection (L/180)	500	226	115	67	42	28	19	14	10	8	6	5	4	3	2	2
	Deflection (L/240)	402	169	86	50	31	21	14	10	8	6	4	3	3	2	2	1

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
9. Load Tables are limited to a maximum allowable load of 500 psf.