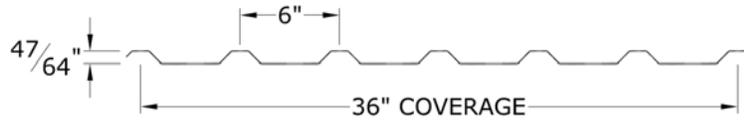




U-Panel

(Bare & Painted Galvalume)



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.)
22	50.0	1.42	1.4333	690.67	1035.13	0.0363	0.0725	2.1700	0.0260	0.0703	1.9900

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	500	361	231	160	118	90	71	57	47	40	34	29	25	22	20	17
	Negative Wind	500	331	212	147	108	82	65	53	43	36	31	27	23	20	18	16
	Live	500	361	231	160	118	90	71	57	47	40	34	29	25	22	20	17
	Deflection (L/180)	500	396	203	117	74	49	34	25	19	14	11	9	7	6	5	4
	Deflection (L/240)	500	297	152	88	55	37	26	19	14	11	8	6	5	4	3	3
2 Span	Positive Wind	500	318	206	144	106	82	64	52	43	36	31	26	23	20	18	16
	Negative Wind	500	344	224	157	116	89	70	57	47	39	34	29	25	22	19	17
	Live	500	318	206	144	106	82	64	52	43	36	31	26	23	20	18	16
	Deflection (L/180)	500	500	419	243	153	102	72	52	39	30	23	19	15	12	10	9
	Deflection (L/240)	500	500	314	182	114	76	54	39	29	22	17	14	11	9	8	6
3 Span	Positive Wind	500	391	255	179	132	102	80	65	54	45	39	33	29	25	22	20
	Negative Wind	500	422	276	194	144	111	88	71	59	49	42	36	31	28	24	22
	Live	500	391	255	179	132	102	80	65	54	45	39	33	29	25	22	20
	Deflection (L/180)	500	500	329	190	119	80	56	41	30	23	18	14	12	10	8	7
	Deflection (L/240)	500	481	246	142	89	60	42	30	23	17	14	11	9	7	6	5
4 Span	Positive Wind	500	367	239	168	124	95	75	61	50	42	36	31	27	24	21	19
	Negative Wind	500	397	259	182	134	103	82	66	55	46	39	34	29	26	23	20
	Live	500	367	239	168	124	95	75	61	50	42	36	31	27	24	21	19
	Deflection (L/180)	500	500	349	202	127	85	59	43	32	25	19	15	12	10	8	7
	Deflection (L/240)	500	500	261	151	95	63	44	32	24	18	14	11	9	7	6	5

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.