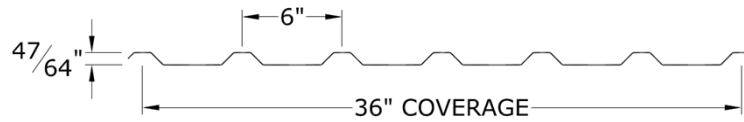




U-Panel

(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.
24	50.0	1.09	1.0997	426.63	629.13	0.0263	0.0514	1.5393	0.0180	0.0459	1.3753

1. Section properties are calculated in accordance with the 2007 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 Type	Load Type	Span in Feet															
		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	456	256	164	114	83	64	50	41	33	28	24	20	18	16	14	12
	Negative Wind	407	229	146	101	74	57	45	36	30	25	21	18	16	14	12	11
	Live	456	256	164	114	83	64	50	41	33	28	24	20	18	16	14	12
	Deflection (L/180)	500	287	147	85	53	35	25	18	13	10	8	6	5	4	3	3
	Deflection (L/240)	500	215	110	63	40	26	18	13	10	7	6	5	4	3	2	2
2 Span	Positive Wind	384	221	143	100	74	56	44	36	30	25	21	18	16	14	12	11
	Negative Wind	425	246	159	111	82	63	50	40	33	28	24	20	18	15	14	12
	Live	384	221	143	100	74	56	44	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	500	298	172	108	72	51	37	28	21	16	13	11	9	7	6
	Deflection (L/240)	500	437	223	129	81	54	38	27	21	16	12	10	8	6	5	4
3 Span	Positive Wind	470	273	177	124	92	70	56	45	37	31	27	23	20	17	15	14
	Negative Wind	500	302	197	138	102	78	62	50	42	35	30	26	22	19	17	15
	Live	470	273	177	124	92	70	56	45	37	31	27	23	20	17	15	14
	Deflection (L/180)	500	456	233	135	85	57	40	29	21	16	13	10	8	7	5	5
	Deflection (L/240)	500	342	175	101	63	42	30	21	16	12	9	7	6	5	4	3
4 Span	Positive Wind	442	256	166	116	86	66	52	42	35	29	25	21	18	16	14	13
	Negative Wind	486	284	185	129	96	73	58	47	39	33	28	24	21	18	16	14
	Live	442	256	166	116	86	66	52	42	35	29	25	21	18	16	14	13
	Deflection (L/180)	500	484	248	143	90	60	42	31	23	17	14	11	9	7	6	5
	Deflection (L/240)	500	363	186	107	67	45	31	23	17	13	10	8	6	5	4	3

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.