



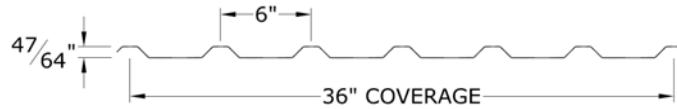
TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-335-13

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	80.0	1.09	1.3197	511.97	754.97	0.0257	0.0498	1.7900	0.0177	0.0438	1.5730

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	500	298	190	132	97	74	58	47	39	33	28	24	21	18	16	14
	Negative Wind	466	262	167	116	85	65	51	41	34	29	24	21	18	16	14	12
	Live	500	298	190	132	97	74	58	47	39	33	28	24	21	18	16	14
	Deflection (L/180)	500	280	143	83	52	35	24	17	13	10	8	6	5	4	3	3
	Deflection (L/240)	499	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
2 Span	Positive Wind	442	254	164	114	84	65	51	41	34	29	24	21	18	16	14	12
	Negative Wind	496	287	186	130	96	73	58	47	39	33	28	24	21	18	16	14
	Live	442	254	164	114	84	65	51	41	34	29	24	21	18	16	14	12
	Deflection (L/180)	500	500	292	169	106	71	50	36	27	21	16	13	10	8	7	6
	Deflection (L/240)	500	428	219	126	79	53	37	27	20	15	12	9	8	6	5	4
3 Span	Positive Wind	500	314	204	142	105	81	64	52	43	36	30	26	23	20	18	16
	Negative Wind	500	353	230	161	119	91	72	59	48	41	35	30	26	23	20	18
	Live	500	314	204	142	105	81	64	52	43	36	30	26	23	20	18	16
	Deflection (L/180)	500	447	229	132	83	55	39	28	21	16	13	10	8	6	5	4
	Deflection (L/240)	500	335	171	99	62	41	29	21	16	12	9	7	6	5	4	3
4 Span	Positive Wind	500	294	190	133	98	75	59	48	40	33	28	24	21	19	16	15
	Negative Wind	500	331	215	151	111	85	68	55	45	38	32	28	24	21	19	17
	Live	500	294	190	133	98	75	59	48	40	33	28	24	21	19	16	15
	Deflection (L/180)	500	474	243	140	88	59	41	30	22	17	13	11	9	7	6	5
	Deflection (L/240)	500	356	182	105	66	44	31	22	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.

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