



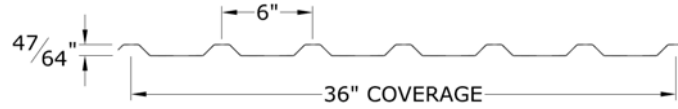
TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-334-13

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.
22	50.0	1.41	1.4340	690.63	1035.13	0.0367	0.0726	2.1730	0.0260	0.0703	1.9930

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	362	231	160	118	90	71	57	47	40	34	29	25	22	20	17
	Negative Wind	500	332	212	147	108	83	65	53	43	36	31	27	23	20	18	16
	Live	500	362	231	160	118	90	71	57	47	40	34	29	25	22	20	17
	Deflection (L/180)	500	400	205	118	74	50	35	25	19	14	11	9	7	6	5	4
	Deflection (L/240)	500	300	153	89	56	37	26	19	14	11	8	7	5	4	3	3
2 Span	Positive Wind	500	319	207	144	107	82	65	52	43	36	31	27	23	20	18	16
	Negative Wind	500	345	224	157	116	89	70	57	47	40	34	29	25	22	19	17
	Live	500	319	207	144	107	82	65	52	43	36	31	27	23	20	18	16
	Deflection (L/180)	500	500	422	244	153	103	72	52	39	30	24	19	15	12	10	9
	Deflection (L/240)	500	500	316	183	115	77	54	39	29	22	18	14	11	9	8	6
3 Span	Positive Wind	500	392	256	179	132	102	81	65	54	45	39	33	29	25	22	20
	Negative Wind	500	423	277	195	144	111	88	71	59	49	42	36	32	28	24	22
	Live	500	392	256	179	132	102	81	65	54	45	39	33	29	25	22	20
	Deflection (L/180)	500	500	330	191	120	80	56	41	31	23	18	15	12	10	8	7
	Deflection (L/240)	500	484	248	143	90	60	42	31	23	17	14	11	9	7	6	5
4 Span	Positive Wind	500	368	239	168	124	95	75	61	50	42	36	31	27	24	21	19
	Negative Wind	500	397	259	182	135	103	82	66	55	46	39	34	29	26	23	20
	Live	500	368	239	168	124	95	75	61	50	42	36	31	27	24	21	19
	Deflection (L/180)	500	500	351	203	128	85	60	43	32	25	19	16	13	10	8	7
	Deflection (L/240)	500	500	263	152	96	64	45	32	24	19	14	12	9	8	6	5

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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