



TECHNICAL BULLETIN

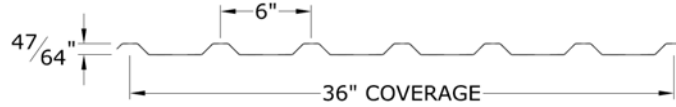
Issue Date : June 1, 2006

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No. 07-256-06

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.
26	50.0	0.86	0.8660	276.23	401.10	0.0193	0.0372	1.1120	0.0130	0.0321	0.9597

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	329	185	118	82	60	46	36	29	24	20	17	15	13	11	10	9
	Negative Wind	284	159	102	71	52	39	31	25	21	17	15	13	11	9	8	7
	Live	329	185	118	82	60	46	36	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	499	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
	Deflection (L/240)	374	158	80	46	29	19	13	10	7	5	4	3	2	2	2	1
2 Span	Positive Wind	271	155	100	70	51	39	31	25	21	17	15	13	11	9	8	7
	Negative Wind	310	179	115	81	59	45	36	29	24	20	17	15	13	11	10	9
	Live	271	155	100	70	51	39	31	25	21	17	15	13	11	9	8	7
	Deflection (L/180)	500	425	217	125	79	53	37	27	20	15	12	9	8	6	5	4
	Deflection (L/240)	500	318	163	94	59	39	27	20	15	11	9	7	6	4	4	3
3 Span	Positive Wind	333	192	124	87	64	49	39	31	26	22	18	16	14	12	11	9
	Negative Wind	378	220	143	100	74	57	45	36	30	25	21	18	16	14	12	11
	Live	333	192	124	87	64	49	39	31	26	22	18	16	14	12	11	9
	Deflection (L/180)	500	332	170	98	62	41	29	21	16	12	9	7	6	5	4	3
	Deflection (L/240)	500	249	127	73	46	31	21	15	12	9	7	5	4	3	3	2
4 Span	Positive Wind	313	180	116	81	60	46	36	29	24	20	17	15	13	11	10	9
	Negative Wind	356	206	134	94	69	53	42	34	28	23	20	17	15	13	11	10
	Live	313	180	116	81	60	46	36	29	24	20	17	15	13	11	10	9
	Deflection (L/180)	500	353	180	104	65	44	31	22	16	13	10	8	6	5	4	3
	Deflection (L/240)	500	265	135	78	49	33	23	16	12	9	7	6	5	4	3	2

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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