

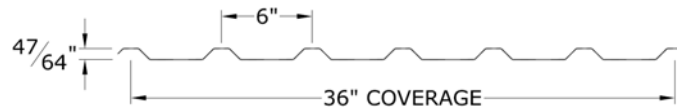
TECHNICAL BULLETIN

Issue Date : January 29, 2013

No. 07-337-13

U-Panel

(Bare 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.
29	80.0	0.67	0.5857	202.03	287.80	0.0127	0.0235	0.8460	0.0090	0.0208	0.7470

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	250	141	90	62	46	35	27	22	18	15	13	11	10	8	7	6
	Negative Wind	221	124	79	55	40	31	24	19	16	13	11	10	8	7	6	6
	Live	250	141	90	62	46	35	27	22	18	15	13	11	10	8	7	6
	Deflection (L/180)	328	138	71	41	25	17	12	8	6	5	4	3	2	2	1	1
	Deflection (L/240)	246	104	53	30	19	13	9	6	5	3	3	2	1	1	1	1
2 Span	Positive Wind	208	120	77	54	40	30	24	19	16	13	11	10	8	7	6	6
	Negative Wind	232	135	87	61	45	34	27	22	18	15	13	11	9	8	7	6
	Live	208	120	77	54	40	30	24	19	16	13	11	10	8	7	6	6
	Deflection (L/180)	500	285	146	84	53	35	25	18	13	10	8	6	5	4	3	3
	Deflection (L/240)	500	214	109	63	39	26	18	13	10	7	6	4	4	3	2	2
3 Span	Positive Wind	254	148	96	67	49	38	30	24	20	17	14	12	11	9	8	7
	Negative Wind	282	165	108	76	56	43	34	27	23	19	16	14	12	10	9	8
	Live	254	148	96	67	49	38	30	24	20	17	14	12	11	9	8	7
	Deflection (L/180)	500	223	114	66	41	27	19	14	10	8	6	5	4	3	2	2
	Deflection (L/240)	397	167	85	49	31	20	14	10	8	6	4	3	3	2	2	1
4 Span	Positive Wind	239	139	90	63	46	35	28	23	19	16	13	11	10	9	8	7
	Negative Wind	266	155	101	71	52	40	32	26	21	18	15	13	11	10	9	8
	Live	239	139	90	63	46	35	28	23	19	16	13	11	10	9	8	7
	Deflection (L/180)	500	237	121	70	44	29	20	15	11	8	6	5	4	3	3	2
	Deflection (L/240)	422	178	91	52	33	22	15	11	8	6	5	4	3	2	2	1

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.

CORPORATE OFFICE
SHREVEPORT, LOUISIANA

BOSSIER CITY, LA
CLINTON, IL

PEACHTREE CITY, GA
MARSHALL, MI

WINCHESTER, VA
ADELANTO, CA

LEWISPORT, KY
MAUSTON, WI

ASHBURN, GA
MERKEL, TX

SUNNYVALE, TX
HOUSTON, TX