



Artisan L12 Panel

SECTION PROPERTIES								
PANEL	Fy	WEIGHT	NEGATIVE BENDING			POSITIVE BENDING		
GAUGE	(KSI)	(PSF)	lxe	Sxe	Maxo	lxe	Sxe	Maxo
			(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)	(IN.4/FT.)	(IN.3/FT.)	(KIP-IN.)
24	50	1.31	0.0271	0.0309	0.9250	0.0178	0.0296	0.8871
22	50	1.65	0.0374	0.0428	1.2829	0.0252	0.0441	1.3199

NOTES:

1. All calculations for the properties of Artisan L12 panels are calculated in accordance with the 1996 edition of the COLD-FORMED STEEL Design Manual, w/ 1999 supplement - published by the American Iron and Steel Institute (AISI).
2. lxe is for deflection determination.
3. Sxe is for Bending.
4. Maxo is allowable bending moment.
5. All values are for the one foot of panel width.

ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

24 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	POSITIVE WIND LOAD	194.0	99.4	57.5	36.2	24.3	17.0	12.4
2-SPAN	POSITIVE WIND LOAD	142.9	92.5	64.7	47.7	36.6	29.0	23.5
3-SPAN	POSITIVE WIND LOAD	176.0	114.6	80.3	59.4	45.6	32.1	23.4
4-SPAN	POSITIVE WIND LOAD	165.2	107.3	75.2	55.5	42.7	33.8	24.9

22 Gauge (Fy = 50 KSI)								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		2.0	2.5	3.0	3.5	4.0	4.5	5.0
SINGLE	POSITIVE WIND LOAD	275.3	141.0	81.6	51.4	34.4	24.2	17.6
2-SPAN	POSITIVE WIND LOAD	210.2	136.7	95.8	70.7	54.3	43.0	34.9
3-SPAN	POSITIVE WIND LOAD	257.8	168.7	118.6	87.8	64.9	45.6	33.3
4-SPAN	POSITIVE WIND LOAD	242.3	158.2	111.1	82.2	63.2	48.4	35.3

NOTES:

1. Allowable loads are based on uniform span lengths.
2. POSITIVE WIND LOAD has been increased by 33.333%.
3. POSITIVE WIND LOAD is limited by bending, shear, combined shear & bending, or web crippling.
4. POSITIVE WIND LOAD is limited by a maximum deflection ratio of L/180 of span.
5. Contact MBCI for negative wind load values.