



NEGATIVE LOAD SPAN CHART FOR :			
PETERSEN 7.2 PANEL			
36" X 0.050" ALUM. (perf.)			
Span, ft.	SINGLE SPAN	TWO EQUAL SPANS	THREE EQUAL SPANS
	W (psf)	W (psf)	W (psf)
1.00	448.80	498.67	623.33
1.50	199.47	221.63	277.04
2.00	112.20	124.67	155.83
2.50	71.81	79.79	99.73
3.00	49.87	55.41	69.26
3.50	36.64	40.71	50.88
4.00	28.05	31.17	38.96
4.50	22.16	24.63	30.78
5.00	17.95	19.95	24.93
5.50	14.84	16.48	20.61
6.00	12.47	13.85	17.31
6.50	10.62	11.80	14.75
7.00	9.16	10.18	12.72

Alloy : 3003-H14

$$I_{xx} = 0.2600 \text{ in}^4$$

$$S_{xx(\text{top})} = 0.1000 \text{ in}^3$$

$$S_{xx(\text{bott})} = 0.0900 \text{ in}^3$$

W = Allowable Uniform Wind Load, psf

- Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member.  
I<sub>xx</sub> and S<sub>xx</sub> are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection.
- Allowable load does not address web crippling, fasteners, connection strength or support material.
- Panel weight is not considered.
- Load/Span values are based on theoretical computations and not load testing.
- Deflection consideration is limited by a maximum deflection ratio of **L/120** of span.
- Allowable loads do not include a 1/3 stress increase for wind.
- Panel is perforated with 1/8" φ holes spaced 3/16" on center yielding 40% open area.