

NEGATIVE LOAD SPAN CHART FOR :

PETERSEN FLUSH PANEL

12" X 22 GA. STEEL

Span, ft.	SINGLE SPAN	TWO EQUAL SPANS	THREE EQUAL SPANS
	W (psf)	W (psf)	W (psf)
1.00	801.00	908.00	1135.00
1.50	363.56	403.56	504.44
2.00	204.50	227.00	283.75
2.50	130.88	145.28	181.60
3.00	90.89	100.89	126.11
3.50	66.78	74.12	92.65
4.00	51.13	56.75	70.94
4.50	40.40	44.84	56.05
5.00	32.72	36.32	45.40
5.50	27.04	30.02	37.52
6.00	21.18	25.22	31.53
6.50	16.66	21.49	26.86
7.00	13.34	18.53	23.16

$$F_y = 50 \text{ ksi}$$

$$(-)I_{xx} = 0.0349 \text{ in}^4$$

$$(-)I_{xx(\text{eff})} = 0.0316 \text{ in}^4$$

$$(+)\mathcal{S}_{xx} = 0.0454 \text{ in}^3$$

$$(-)\mathcal{S}_{xx} = 0.0409 \text{ in}^3$$

W = Allowable Uniform Wind Load, psf

1. Theoretical section properties have been calculated per AISI 2012 North American Specification for the Design of Cold-Formed Steel Structural Member.
I_{xx} and S_{xx} are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2012 specifications considering bending, shear, combined bending and shear and deflection.
3. Allowable load does not address web crippling, fasteners, connection strength or support material.
4. Panel weight is not considered.
5. Load/Span values are based on theoretical computations and not load testing.
6. Deflection consideration is limited by a maximum deflection ratio of L/120 of span.
7. Allowable loads do not include a 1/3 stress increase for wind.