

PETERSEN ALUMINUM CORP.
7.2 ROOF PANEL
0.050" ALUMINUM

NEGATIVE DESIGN LOADS

SPAN	TEST LOAD	NEGATIVE DESIGN LOAD (FS = 2.0)**	NEGATIVE DESIGN LOAD (FS = 1.65)***
5'	145.5 psf*	72.7 psf	88.1 psf
4'	205.1 psf	102.5 psf	124.3 psf
3'	264.8 psf	132.4 psf	160.4 psf
2'	324.5 psf	162.2 psf	196.6 psf
1'	384.2 psf*	192.1 psf	232.8 psf
5'	289.0 psf****	144.5 psf	175.1 psf

* Negative (Uplift) Test Pressure from ASTM E1592 testing. See Farabaugh Engineering and Testing, Inc. Test Report Project No. T232-11 and T234-11 for test data and details.

** Negative Design Load obtained using a factor of safety of 2.0

*** Negative Design Load obtained using a factor of safety of 1.65

**** Negative Design Load obtained using two (2) panel to support fasteners per low cell at each support. See Farabaugh Engineering and Testing Test Report Project No. T233-11 for test data and details.

- All values for 4', 3' and 2' spans are interpolated.
- Design Engineer shall use appropriate Factor of Safety based on required building codes and project specifications.
- These values do not consider fastener pullout or pullover which must be evaluated by the Design Engineer.