



# Engineering Technical Bulletin – SL-16 29 GA.

## Not For Use in Florida

This Technical Bulletin is only a sales tool to see if this panel will work based on structures having the characteristics listed below. For Structures falling outside the parameters, please contact ABC for appropriate fastener spacing. The structure being evaluated still needs to be designed by a Professional Engineer.

Building Code: ASCE 7-10  
 Mean Roof Height  $\leq 30'$   
 Gable/Hipped Roofs with Slope 7 to 25 Degrees  
 Minimum 3-span condition  
 Factor of Safety (connection) = 4.00

Exposure: B  
 Enclosed Structures  
 Building Category II  
 Substrate: 2 x 4 – 1" Penetration  
 Fastener Pullout based on Atlas and Buildex 10-12 Pancake Type A

### Gable Roof with 0.6D+0.6W

Basic Wind Speed (mph)	115	120	125	130	135	140	145	150
(1) Main Pressure (psf)	-12.21	-13.37	-14.58	-15.83	-17.14	-18.50	-19.91	-21.36
(2) Eave, Rake, and Ridge Pressure (psf)	-21.88	-23.90	-26.00	-28.19	-30.47	-32.83	-35.28	-37.81
(3) Corner Pressure (psf)	-32.75	-35.74	-38.85	-42.09	-45.46	-48.95	-52.57	-56.32

### Gable Roof Fastener Spacing (ft)

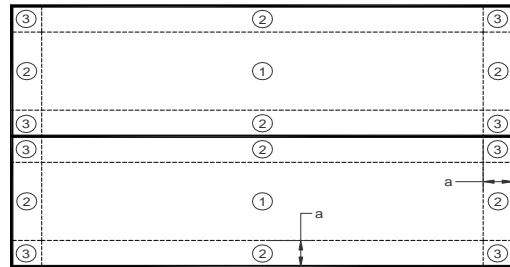
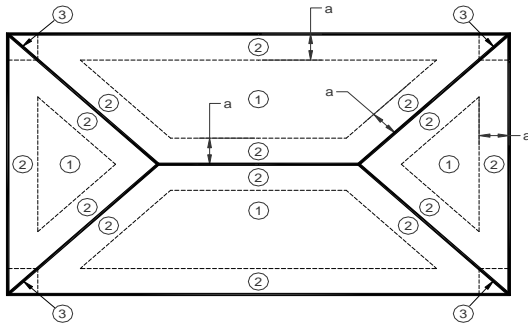
(1) Main Pressure (ft)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.50
(2) Eave, Rake, and Ridge Pressure (ft)	2.50	1.50	1.50	1.00	1.00	0.50	NG	NG
(3) Corner Pressure (ft)	0.50	NG	NG	NG	NG	NG	NG	NG

### Hipped Roof with 0.6D+0.6W

Basic Wind Speed (mph)	115	120	125	130	135	140	145	150
(1) Main Pressure (psf)	-12.21	-13.37	-14.58	-15.83	-17.14	-18.50	-19.91	-21.36
(2) Eave, Rake, and Ridge Pressure (psf)	-21.88	-23.90	-26.00	-28.19	-30.47	-32.83	-35.28	-37.81
(3) Corner Pressure (psf)	-21.88	-23.90	-26.00	-28.19	-30.47	-32.83	-35.28	-37.81

### Hipped Roof Fastener Spacing

(1) Main Pressure (ft)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	2.50
(2) Eave, Rake, and Ridge Pressure (ft)	2.50	1.50	1.50	1.00	1.00	0.50	NG	NG
(3) Corner Pressure (ft)	2.50	1.50	1.50	1.00	1.00	0.50	NG	NG



a = edge zone dimension = 10% of least horizontal dimension or 0.40h, whichever is smaller, but not less than either 4% of least dimension or 3 ft.