

# A-Lok Panel



Architectural/ Commercial Roof Panel System	Concealed Fasteners	Minimum 1/4:12 Slope	16" Coverage	Use over Structural Framing or Solid Substrate
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## Features:

- Mechanically seamed.
- 2" seam height.
- Concealed clip fastening system.
- Clips allow for thermal expansion & contraction.
- UL 90 and FM Class 1-90 listed.
- Factory applied seam sealant.
- Can be broken over at the eave to form an integrated fascia.

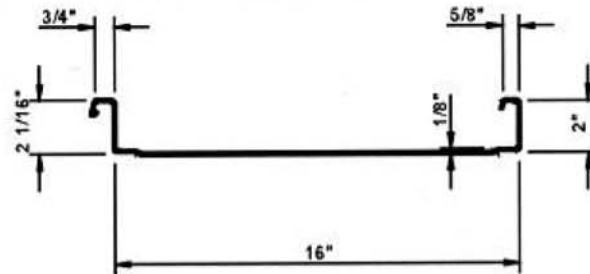
## Benefits:

- Significantly increases uplift resistance.
- Keeps seam above water level.
- Reduces potential leaks from through fasteners.
- Allows roof system to move with temperature differentials.
- Can be used in most applications.
- Eliminates the risk of improper field application.
- Creates uninterrupted transition from roof panel to fascia panel.

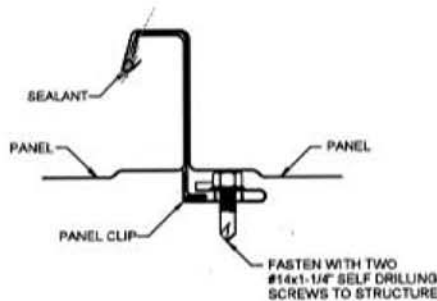


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**Panel Detail**



**Sidelap Detail**



## AllianceLok Panel General Information

### 1.0 Slope

Recommended for roof applications. The minimum recommended roof slope for AllianceLok is  $\frac{1}{4}$ :12. Roof panels may be broken over at eave to form short fascia panels.

### 2.0 Substructure

AllianceLok is designed to be placed over open structural framing but can be used in conjunction with a solid substructure. To avoid panel distortion, be sure the substructure is uniform and properly aligned.

### 3.0 Clips

Clip spacing is based on the spacing of the underlying structural members.

### 4.0 Coverage

Each panel has a net coverage width of 16".

### 5.0 Lengths

Minimum factory cut length is 4'-0". Maximum length is 40'-0".

### 6.0 Fasteners

Panel eave is fastened with #12x1 1/4 self-drilling screws. Clips are fastened with (2) #14x1 1/4 self-drilling screws. Endlaps, when required, are fastened with #12x1 1/4 self-drilling screws. Refer to erection drawing package for fastener location and spacing.

### 7.0 Availability

24 gauge standard, 22 gauge optional (extended delivery required).

Allowable Uniform Loads for 3 or More Spans in PSF

		Live Load								Wind Load							
		Stress				Deflection				Stress				Deflection			
Ga	KSI	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'	4'	5'	6'	7'
24	50	149	95.4	66.2	48.7	149	95.4	66.2	48.7	170	109	75.6	55.5	170	109	75.6	55.5
22	50	186	119	82.8	60.8	186	119	82.8	60.8	221	142	98.4	72.3	221	142	98.4	71.6

- 1) Tabulated values are total allowable loads calculated in accordance with the maximum bending stresses for physical and section properties.
- 2) These load capacities are for the panel itself. Frames, purlins, fasteners, and all supports must be designed to resist all loads imposed by the panel.
- 3) Deflection loads are limited by a maximum deflection ratio of L/240 of span.

