MECHANICALLY SEAMED STANDING SEAM PANELS

FIELD-LOK™
2 3/8” Field-Lok® Premium System Advantages

Because of its strength, watertightness, and aesthetics, Field-Lok™ meets the new stringent building codes and specifications and is ideal for a wide range of climatic conditions.

**FIELD-LOK® FEATURES**
- Lock design creates one of the strongest mechanically locked seams on the market today
- Outstanding load resistance
- Superior weathertightness
- Panel design incorporates a double seam, double hook sidelay design to resist seam failure between supports and sidelay unfurling and unzipping
- Factory applied sealant available

**LONGEVITY**
- Fire resistant – will not burn or support combustion
- May be an insurance advantage
- Will not warp, crack, or rot
- 30 Year Limited Warranty
- Resistant to high wind, torrential rain, heavy snow and ice loads
- High quality and time proven painting and pretreatment technologies
- Kynar 500® PVDF or Hylar 5000® PVDF Coating System

**FLS Series Clip Features**
- Positive centering stop assures the clip tab is centered until the fasteners are installed
- Notched outer tab allows for easier seaming, reducing chances for damage to the panel finish during the seaming process
- Allows a full 3 inches of movement
- Metallic coated steel assures a long corrosion resistant life

**FIRST-LOK**
Provides the foundation for the Field-Lok patented design. Panels are “hooked and rolled” into place onto the seam of the previous panel to achieve the initial first stage lock. This lock provides temporary panel engagement during the course of installation without the use of hand seaming.

**SECOND-LOK**
Initial panel hook is pre seamed in place to achieve a double lock panel. This seam is stage one of the mechanical field seaming process. Provides the initial engagement of panel to anchor clip.

**TRIPLE-LOK**
Panel seam is folded over to a 90 degree seam. Unlike most 90 degree seam designs that are considered to be a single lock, the FLS series provides a true double fold in the 90 degree seam. This combined with the initial First-Lok actually has 3 methods of engagement for the triple lock feature.

**QUAD-LOK**
Panels can be seamed to an approximate 160 degree seam to resist ultra-high wind loads without the need for additional clips or other exterior reinforcement. This additional uplift resistant feature can be used in high wind areas or where additional load values are required such as building eaves and corner areas.
2 3/8" Field-Lok

Features a Triple-Lok design that has been proven to outperform all roof systems in testing for wind uplift resistance.

2 3/8" Field-Lok Design Advantages

Incorporates a “hooked in” standing seam with a double-folded design to resist seam failure between supports, inhibit sidelap unfurling or unzipping, and add structural integrity to the roof system. Installed with expansion clips, Field-Lok accommodates for expansion and contraction of the roof system. Adjacent panel conceals the fasteners and clips. The extra-high locked standing seam adds structural integrity to the roof system.

APPLICATION

- Applications include commercial roofs, solid deck (plywood/metal), and open framing
- Recommended minimum slope of 1/2:12
- Concealed fastener system
- Pre-notching for panel overlap is available
- Eave notching is available for drip edge engagement
- Panel swedging to overlap detail

PERFORMANCE STANDARDS

- Environmentally friendly – ENERGY STAR® qualified colors available. Contact ATAS for current color listings
- Tested in accordance with ASTM E 1646, ASTM E 1592, UL 580, UL 1897, ASTM E 1680, UL 790/ASTM E 108
- MCA Roofing Certification

Specifications

SKU: FLS137, FLS180

Material: .032, .040 Aluminum; 24, 22* ga. metallic coated steel; 24 ga. 55% Al-Zn alloy coated steel

Panel Width: 13 3/4", 18"

Panel Length: Cut to customer specifications with a min. of 4'-0", maximum to transportation limitations and/or product and project design considerations

Seam Height: 2 3/8"

Texture: Smooth, embossed

Finish: Kynar 500® PVDF or Hylar 5000® PVDF

Colors: Choice of over 30 stock colors, custom colors available*

Accessories: A complete line of trims available in matching colors, gauge, and finish, or as specified

Minimum Slope: 1/2:12

*Subject to minimum quantities and longer lead time. Inquire for availability.
**2” Field-Lok**

The 2” Field-Lok series is a mechanical field seamed panel system. The single-locked or double-locked structural panel can meet severe load requirements.

### 2” Field-Lok Design Advantages

For aesthetic reasons or personal preference, the panel can be seamed with a single fold displaying a broader seam, or double locked to create a 180° seam for additional wind uplift resistance. The single fold meets the needs for a structural panel while providing the reliability of a weather tight roof. The panel system is installed with an expansion clip.

### APPLICATION

- Applications include commercial roofs. Can be applied to solid deck (plywood/metal) and open framing
- Recommended minimum slope of ½:12
- Concealed fastener system
- Eave notching is available for drip edge engagement

### PERFORMANCE STANDARDS

- Environmentally friendly – ENERGY STAR® qualified colors available. Contact ATAS for current color listings
- Tested in accordance with ASTM E 1592, UL 580, TAS 125, UL 1897, ASTM E 283, ASTM E 331, TAS 100, PA 114 Leakage, PA 201 Impact
- MCA Roofing Certification

### Specifications

<table>
<thead>
<tr>
<th>SKU</th>
<th>FLR154, FLR195</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>.032, .040 aluminum; 24, 22* ga. metallic coated steel; 24 ga. 55% Al-Zn alloy coated steel with acrylic coating, 16, 20 oz. copper*, .7mm zinc*, .0197 classic &amp; terne coated stainless steel*</td>
</tr>
<tr>
<td>Panel Width</td>
<td>15 1/4”, 19 1/2”, custom widths available</td>
</tr>
<tr>
<td>Panel Length</td>
<td>Cut to customer specifications with a min. of 4'-0”, maximum to transportation limitations and/or product and project design considerations</td>
</tr>
<tr>
<td>Seam Height</td>
<td>2”</td>
</tr>
<tr>
<td>Available</td>
<td>Tapered</td>
</tr>
<tr>
<td>Texture</td>
<td>Smooth</td>
</tr>
<tr>
<td>Finish</td>
<td>Kynar 500® PVDF or Hylar 5000® PVDF</td>
</tr>
<tr>
<td>Colors</td>
<td>Choice of over 30 stock colors, custom colors available*</td>
</tr>
<tr>
<td>Accessories</td>
<td>A complete line of trims available in matching colors, gauge, and finish, or as specified</td>
</tr>
<tr>
<td>Minimum Slope</td>
<td>½:12</td>
</tr>
</tbody>
</table>

*Subject to minimum quantities and longer lead time. Inquire for availability. Panel width may vary.*
The 1 ½” Field-Lok panel is a non-structural single-locked or double-locked roof panel.

1 ½” Field-Lok Design Advantages

For aesthetic reasons or personal preference, the panel can be seamed with a single fold displaying a broader seam, or double locked to create a 180° seam for additional wind uplift resistance. The panel system is installed with an expansion clip.

APPLICATION

- Applications include commercial roofs, to be installed on a solid deck (plywood/metal), and curved panel systems over entrances and walkways.
- Recommended minimum slope of 2:12
- Concealed fastener system
- Eave notching is available for drip edge engagement

PERFORMANCE STANDARDS

- Environmentally friendly – ENERGY STAR® qualified colors available. Contact ATAS for current color listings
- Tested in accordance with ASTM E 1592, UL 580, UL 1897, ASTM E 283, ASTM E 331, UL 790/ASTM E 108, UL 2218
- MCA Roofing Certification

Specifications

SKU: FLM125, FLM165, FLM207
Material: .032, .040 aluminum; 24, 22* ga. metallic coated steel; 24 ga. 55% Al-Zn alloy coated steel with acrylic coating; 16, 20 oz. copper*, .7mm zinc*, .0197 classic & terne coated stainless steel*
Panel Width: 12 1/2", 16 1/2", 20 3/4", custom widths available
Panel Length: Cut to customer specifications with a min. of 4'-0", maximum to transportation limitations and/or product and project design considerations
Seam Height: 1 1/2"
Available: Tapered, Convex
Texture: Smooth
Finish: Kynar 500® PVDF or Hylar 5000® PVDF
Colors: Choice of over 30 stock colors, custom colors available*
Accessories: A complete line of trims available in matching colors, gauge, and finish, or as specified
Minimum Slope: 2:12 depending on climate conditions

*Subject to minimum quantities and longer lead time. Inquire for availability. Panel width may vary.
1" Field-Lok

A non-structural single-locked or double-locked roof panel with a 1” seam height.

1" Field-Lok Design Advantages

For aesthetic reasons or personal preference, the panel can be seamed with a single fold displaying a broader seam, or double locked to create a 180° seam for additional wind uplift resistance. The panel system is installed with an expansion clip.

APPLICATION

- Applications include commercial roofs, to be installed on a solid deck (plywood/metal), and curved panel systems over entrances and walkways
- Recommended minimum slope of 2:12
- Concealed fastener system
- Eave notching is available for drip edge engagement

PERFORMANCE STANDARDS

- Environmentally friendly – ENERGY STAR® qualified colors available. Contact ATAS for current color listings
- Tested in accordance with UL 580, UL 1897, UL 790/ASTM E 108, UL 2218
- MCA Roofing Certification

Specifications

SKU: FLL135, FLL175, FLL217
Material: .032, .040 aluminum; 24, 22* ga. metallic coated steel; 24 ga. 55% Al-Zn alloy coated steel with acrylic coating; 16, 20 oz. copper*, .7mm zinc*. 0197 classic & terne coated stainless steel*
Panel Width: 13 1/2", 17 1/2", 21 3/4", custom widths available
Panel Length: Cut to customer specifications with a min. of 4'-0", maximum to transportation limitations and/or product and project design considerations
Seam Height: 1"
Available: Tapered, Convex
Texture: Smooth
Finish: Kynar 500® PVDF or Hylar 5000® PVDF
Colors: Choice of over 30 stock colors, custom colors available*
Accessories: A complete line of trims available in matching colors, gauge, and finish, or as specified
Minimum Slope: 2:12 depending on climate conditions

*Subject to minimum quantities and longer lead time. Inquire for availability. Panel width may vary.
Precision Leveling

Factory Formed Advantages

ATAS minimizes “oil canning” potential

- Precision leveling prior to forming
- Proper handling of metal, panels and trims
- Improved fasteners and clips allow panel to float without causing stress on panel
- Crating for jobsite handling/staging

Field-Lok™ Seam and Clip Details

2 3/8” FLS

Standard: Base: 16 ga. metallic coated steel  
Tab: 22 ga. metallic coated steel

Optional*: Base: 16 ga. metallic coated steel  
Tab: 22 ga. stainless steel

2 3/8” FLS RAISED

Standard: Base: 16 ga. metallic coated steel  
Tab: 22 ga. metallic coated steel

Optional*: Base: 16 ga. metallic coated steel  
Tab: 22 ga. stainless steel

2” FLR

Standard: Base: 18 ga. metallic coated steel  
Tab: 22 ga. metallic coated steel

Optional*: Base: 18 ga. stainless steel  
Tab: 22 ga. stainless steel

1 ½” FLM

Standard: Base: 22 ga. metallic coated steel  
Tab: 24 ga. metallic coated steel

Optional*: Base: 22 ga. stainless steel  
Tab: 24 ga. stainless steel

1” FLL

Standard: Base: 28 ga. stainless steel  
Tab: 28 ga. stainless steel

*Subject to minimum quantities and longer lead time. Inquire for availability.
ATAS’ professional staff is able to assist in the design or provide shop drawings for your project. Final choice of materials and installation is the responsibility of the owner, architect and/or the owner’s agent. ATAS International, Inc. cannot be held responsible for the ultimate selection or the installation of those materials.

Due to slight stress in metal materials and substrates to which metal panels are applied, installed panels may exhibit a perceived waviness in the flat areas of the panel. Commonly the period and amplitude of the waviness is dependent upon the continuous flat width of the panel. This condition is beyond the control of ATAS and consequently this perceived waviness or “oil canning” of the product is not a valid reason for rejection of materials. (Refer to ASTM E 1514, ASTM E 1637 and Metal Construction Association Technical Bulletin 1060 for further clarification).

ATAS reserves the right to modify, eliminate and/or change its products without prior notification. ATAS cannot be held responsible for errors in line drawings and typesetting. Inquire for availability. Colors are as close to the actual colors as modern printing allows. Exact color chips on request; this is a requirement for all premium colors. If you have requirements or preference for colors or finishes other than shown, contact ATAS. Color availability varies by material, gauge and profile. ATAS is not responsible for colors selected from this chart. Contact ATAS for more information.

**THE ATAS DIFFERENCE**

**Field-Lok roll former**

- In-line leveling
- Stationary machine
- 18 forming stages
- Controlled environment
- Pre-notch
- Swedging (FLS Panel)

ATAS International, Inc.
Allentown, PA • Mesa, AZ • Maryville, TN
610.395.8445 | www.atas.com | info@atas.com

© 2016 ATAS International, Inc.

“Field-Lok” is a trademark of ATAS International, Inc. Kynar 500® PVDF is a registered trademark of Arkema. Hylar 5000® PVDF is a registered trademark of Solvay Plastics.