

# Advantage-Lok II Panel

## Technical Data Guide

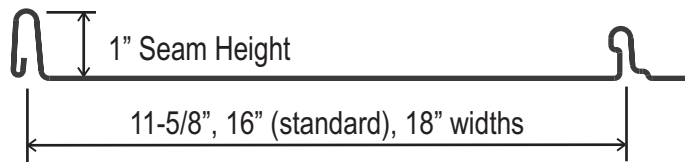
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### Description

Advantage-LokII is a integral snap-lock standing seam roofing panel used on commercial and residential applications. The panel is factory formed in continuous lengths up to 60'-0" long. It is installed over solid substrate and is fastened through the fastening flange at specific intervals. Refer to product test results for fastener spacing requirements.

### Application

Product can be applied to various solid substrate applications such as wood sheathing, wood planking, metal decking, and rigid insulation applied over metal decking. Minimum recommended slope is 3:12.



### Test Results

**UL 1897 Wind Uplift Resistance - for 16" wide, 26 gauge Advantage-LokII Panel over 7/16" OSB or 15/32" plywd**  
*Standard test method to provide uplift resistance data for the evaluation of the attachment of roof covering to roof decks*

Fastener Spcg.	Ultimate Load	Design Load
6" on center	105 psf	52.5 psf
6" on center*	225 psf*	112.5 psf*

Notes:

- The design load is calculated by dividing the ultimate load by the factor of safety of 2.0
- \*3/16" bead of sealant applied continuous at panel sidelap

**UL 1897 Wind Uplift Resistance - for 16" wide, 26 gauge Advantage-LokII Panel over 15/32" & 19/32" plywood**  
*Standard test method to provide uplift resistance data for the evaluation of the attachment of roof covering to roof decks*

Fastener Spcg.	Ultimate Load	Design Load	Deck Type
6" on center	118.8 psf	59.4 psf	15/32"
6" on center*	195 psf*	97.5 psf*	15/32"
4" on center*	215.8 psf*	107.9 psf*	19/32"

Notes:

- The design load is calculated by dividing the ultimate load by the factor of safety of 2.0
- \* 3/16" bead of sealant applied continuous at sidelap

**UL 1897 Wind Uplift Resistance - for 16" wide, 0.032" aluminum Advantage-LokII Panel over 7/16" OSB or 15/32" plywood**

*Standard test method to provide uplift resistance data for the evaluation of the attachment of roof covering to roof decks*

Fastener Spcg.	Ultimate Load	Design Load
4.63" on center	187 psf	93.5 psf
4.63" on center	172 psf	86 psf
18.5" on center	45 psf	22.5 psf

Notes:

- The design load is calculated by dividing the ultimate load by the factor of safety of 2.0
- \* 3/8" bead of sealant applied continuous at sidelap



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## Underwriters Laboratories Approval Listings

### UL790 Fire Resistance of Roof Covering Materials & UL2218 Impact Resistance of Roof Covering Materials

#### TGFU.R20494 Roofing Systems

#### Class A

Coated steel panels (surfacing) identified as "R Panel", "PBR Panel", "MasterRib", "5V Panel", "Advantage-Lok", "Advantage-Lok II", "Performa Steel Shingle", "Relia-Clad", "CSL Standing Seam" (SL150), "ML150", "ML200" and "SL175"

**1. Deck:** C-15/32 **Incline:** Unlimited **Impact:** Class 4  
Barrier Board: — 1/4 in. (min) G-P Gypsum DensDeck® with all joints staggered a min of 6 in. from the plywood joints.  
Ply Sheet (Optional): — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or WR Grace "Ice and Water Shield".  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**2. Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** Class 4  
Underlayment: — One layer Elk Corp. "VersaShield Underlayment", mechanically fastened.  
Ply Sheet (Optional): — One layer Type 30 base sheet or Elk Corp. "VersaShield", mechanically fastened.  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**3. Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** Class 4  
Underlayment: — One or more layer Elk Corp. "VersaShield Underlayment", mechanically fastened.  
Batten: — 2" x 2" wood battens  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**4. Deck:** NC **Incline:** Unlimited **Impact:** Class 4  
Barrier Board: — 1/4 in. min. G-P Gypsum DensDeck®.  
Ply Sheet (Optional): — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or WR Grace "Ice and Water Shield".  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**5. Deck:** NC **Incline:** Unlimited **Impact:** Class 4  
Barrier Board: — 7/16 OBS or 5/8 in. plywood over polyisocyanurate insulation board or polyisocyanurate composite board, any thickness.  
Ply Sheet (Optional): — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or WR Grace "Ice and Water Shield".  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**6. Deck:** NC **Incline:** Unlimited **Impact:** Class 4  
Insulation: — Polyisocyanurate, glass fiber, perlite or wood fiber, any thickness.  
Ply Sheet (Optional): — Any UL Classified Type G1, G2 or G3 base/ply sheet, Type 15, 20 or 30 felt or UL Classified prepared roofing accessory or WR Grace "Ice and Water Shield".  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

**7. Deck:** NC **Incline:** Unlimited **Impact:** Class 4  
Insulation: — None required, however any UL Classified insulations may be used over open purlin spans. Any combination and any total thickness of insulation may be used.  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

#### Class C

Coated steel panels (surfacing) identified as "R Panel", "PBR Panel", "MasterRib", "5V Panel", "Advantage-Lok", "Advantage-Lok II", "Performa Steel Shingle", "Relia-Clad", "CSL Standing Seam" (SL150).

**1. Deck:** C-15/32 **Incline:** Unlimited **Impact:** Class 4  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.

#### Maintenance and Repair Class A

Coated steel panels (surfacing) identified as "R Panel", "PBR Panel", "MasterRib", "5V Panel", "Advantage-Lok", "Advantage-Lok II", "Performa Steel Shingle", "Relia-Clad", "CSL Standing Seam", "ML150", "ML200" and "SL175".

**1. Deck:** C-15/32 or spaced sheathing **Incline:** Unlimited **Impact:** Class 4  
Existing Roof System: — Any class A, B, or C shingle  
Underlayment: — One layer Elk Corp. "VersaShield Underlayment", mechanically fastened.  
Surfacing: — Coated Steel roofing panels, mechanically fastened or with steel screws when roof deck fasteners (panel clips) not required.



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## Underwriters Laboratories Approval Listings

### UL580 Class 90 Wind Uplift Resistance

#### Construction No. 641 - Advantage-LokII Panel over Wood Sheathing

1. Metal Panels: No. 26 MSG minimum thickness coated steel. Panel width 16 inches maximum
2. Substrate: Minimum 15/32 inch thick plywood decking
3. Fasteners: No. 10-12 x 1 inch pancake head coated steel screws. Located 6" on center along panel sidelap.

## Florida Approval Listings - Florida Bldg. Code 5th Addition (2014)

- |           |   |
|-----------|---|
| FL7271.6  | Advantage-LokII Panel up to 16" wide x 26 gauge over 7/16" OSB or 15/32" plywood        |
| FL7271.7  | Advantage-LokII Panel up to 16" wide x 26 gauge over 15/32" plywood                     |
| FL18716.1 | Advantage-LokII Panel up to 16" wide x 0.032" aluminum over 7/16" OSB or 15/32" plywood |

*Complete UL assembly information for each construction number can be referenced online at Underwriters Laboratories Online Certifications Directory (UL.com).*