

SL150 Panel

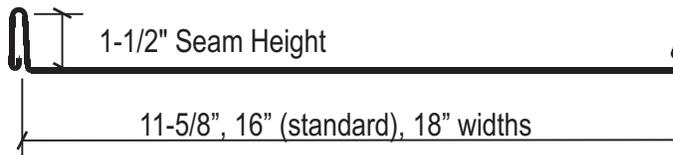
Technical Data Guide

Description

SL150 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 with galvanized steel clips at specific intervals. Refer to product test results for clip spacing requirements. Clip design allows for unlimited thermal expansion.

Application

Product can be applied to various solid substrate applications such as wood sheathing, wood planking, metal decking,



Test Results

ASTM E-283 Air Infiltration

Standard Test Method for Determining Rate of Air Leakage

Static Pressure Differential	Air Infiltration Rate
6.24 psf	0.006 cfm/ft ²

ASTM E-331 Water Penetration

Standard Test Method for Water Penetration

Static Pressure Differential	Water Infiltration
6.24 psf	No Water Leakage
12.00 psf	No Water Leakage
15.00 psf	No Water Leakage

UL 1897 Wind Uplift Resistance - for 16" wide, 24 gauge SL150 Panel over 15/32" plywood

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

Clip Spacing	Ultimate Load	Design Load
6" on center	232 psf	116 psf
12" on center	217 psf	108.5 psf
24" on center	172 psf	86 psf

Notes:

1. The design load is calculated by dividing the ultimate load by the factor of safety of 2.0

UL 1897 Wind Uplift Resistance - for 16" wide, 0.032" aluminum SL150 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

Clip Spacing	Ultimate Load	Design Load
6" on center*	172 psf*	86 psf*
6" on center	157 psf	78.5 psf
24" on center	90 psf	45 psf

Notes:

1. 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



Your Roof. For Life.™

SL150 Panel Technical Data Guide

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.



Your Roof. For Life.™

SL150 Panel Technical Data Guide

Underwriters Laboratories Approval Listings

UL580 Class 90 Wind Uplift Resistance

Construction No. 589 - SL150 Panel over Wood Sheathing

1. Metal Panels: No. 24 MSG minimum thickness coated steel. Panel width 16 inches maximum
2. Substrate: Minimum 19/32 inch thick plywood decking or 5/8 inch minimum (19/32) OSB
3. Panel Clips: 3-1/2" long x 1-1/2" high (SL150 Clip11) at 36 inches on center
4. Fasteners: No. 10-12 x 1 inch pancake head coated steel screws. Two screws per clip.

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

- | | |
|-----------|---|
| FL9443.1 | SL150 Panel up to 16" wide x 24 gauge over 15/32" plywood |
| FL17643.6 | SL150 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).