



PRI Evaluation Report

PRI ER 1378E04

Issue Date: 06/09/2021

Last Revision: 03/21/2025

This Report is Reviewed Annually

Visit: pri-group.com for current status.

Report Holder:

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SCOPE

Subject: Underlayments

Products:

Westlake Royal™ TileSeal™ HT
Westlake Royal™ MetalSeal™ HT
GatorSeal® Underlayment
Citadel® Plus
Citadel® Pro

CSI MasterFormat® :

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Sub-level 2: 07 30 00 – Steep Slope Roofing

Code References:

- 2024, 2021, 2018, 2015, and 2012 International Building Code® (IBC)
- 2024, 2021, 2018, 2015, and 2012 International Residential Code® (IRC)

Properties Evaluated:

- External Fire Exposure (ASTM E108, ANSI/UL790)
- Wind Resistance (ANSI/UL 1897)
- Physical Properties (ASTM D1970)
- Ice Barrier (ICC-ES AC48)
- Other (ICC-ES AC152)

Evidence Submitted:

- Recognized test report(s) indicating compliance with ASTM E108 and/or ANSI/UL790
- Recognized test report(s) indicating compliance with ANSI/UL 1897
- Recognized test report(s) indicating compliance with ASTM D1970
- Recognized test report(s) indicating compliance with ICC-ES AC152
- Recognized test report(s) indicating compliance with ICC-ES AC48
- Quality Documentation
- Manufacturer’s Drawings and Installation Instructions

Manufacturing Locations:

<u>Factory ID</u>	<u>Location</u>
Private Label	Private Label



PRODUCT DESCRIPTIONS and APPLICATIONS

Product Descriptions:

Underlayments covered under this report are self-adhering modified bitumen membranes. They are ASTM D1970 underlayments and, where required, may also be used as an ice barrier as specified in the following code:

- 2024, 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2024, 2021, 2018, 2015, and 2012 *IRC* Chapter 9

<u>Product with Description:</u>	<u>Factory IDs:</u>	<u>Dimensions:</u>
Westlake Royal TileSeal™ HT A self-adhering SBS modified asphalt membrane with a polyester, non-woven fabric surface and a split release backing. It is supplied in rolls with a nominal coverage area of 2 squares.	Private Label	Length: 72 ft Width: 36 in Thickness: 64 mils
Westlake Royal MetalSeal™ HT A self-adhering SBS modified asphalt membrane with a polyester, non-woven fabric surface and a split release backing. It is supplied in rolls with a nominal coverage area of 2 squares.	Private Label	Length: 72 ft Width: 36 in Thickness: 64 mils
GatorSeal® Underlayment A self-adhered roof underlayment, reinforced with a fiberglass mat, with a poly faced surface.	Private Label	Length: 65 ft Width: 3 ft Thickness: 46 mils
Citadel® Plus A self-adhered roof underlayment, reinforced with a fiberglass mat, with a poly faced surface.	Private Label	Length: 72 ft Width: 36 in Thickness: 52 mils
Citadel® Pro A self-adhered roof underlayment, reinforced with a fiberglass mat, with a poly faced surface.	Private Label	Length: 66.7 ft Width: 36 in Thickness: 45 mils

Fire Classification:

Underlayments covered under this report may be used as an accessory component in approved, fire classified roof covering systems. When installed directly on minimum ¹⁵/₃₂ inch thick exterior plywood decking (DOC PS-1) or minimum ⁷/₁₆ inch thick oriented strand board (OSB) (DOC PS-2) or minimum 1 inch thick wood plank, underlayments are part of a fire classified assembly in accordance with ASTM E108 and/or ANSI/UL 790 and qualify for use under the following code:

- 2024, 2021, 2018, 2015, and 2012 *IBC* Section 1505.1
- 2024, 2021, 2018, 2015, and 2012 *IRC* Section R902.1.

Underlayments covered under this report may be used with the below allowable roof covers.

<u>Underlayment Product:</u>	Fire Classification – Allowable Roof Covers							
	Asphalt Shingles	Clay and Concrete Tile		Metal		Mineral-Surfaced Roll Roofing	Slate and Slate-Type Shingles	Wood Shingles and Shakes
		Mechanical Attachment	Adhesive-Set	Shingles	Panels			
Westlake Royal TileSeal™ HT <i>Optional Base Sheet:</i> <i>Citadel® Plus or Citadel® Pro</i>	Class A	Class A	Class A	Class C	Class C	No	Class A	No



Underlayment Product:	Fire Classification – Allowable Roof Covers							
	Asphalt Shingles	Clay and Concrete Tile		Metal		Mineral-Surfaced Roll Roofing	Slate and Slate-Type Shingles	Wood Shingles and Shakes
		Mechanical Attachment	Adhesive-Set	Shingles	Panels			
Westlake Royal MetalSeal™ HT <i>Optional Base Sheet:</i> <i>Citadel® Plus or Citadel® Pro</i>	Class A	Class A	Class A	Class C	Class C	No	Class A	No
GatorSeal® Underlayment <i>Optional Base Sheet:</i> <i>Citadel® Plus or Citadel® Pro</i>	Class A	No	No	No	No	No	Class A	No

Wind Resistance:

Underlayments covered under this report may be used with mechanically attached roof covers as prescribed in the following code:

- 2024 and 2021 IBC Section 1507.1.1 for self-adhering underlayment complying with ASTM D1970
- 2018 IBC Section 1507.1.1 as permitted in Exception 1 for self-adhering underlayment complying with ASTM D1970
- 2015, and 2012 IBC Section 1507 where exceptions or allowances for ASTM D1970 are referenced
- 2024 and 2021 IRC Section R905.1.1 for self-adhering underlayment complying with ASTM D1970
- 2018 and 2015 IRC Section R905.1.1 as permitted in Exception 1 for self-adhering underlayment complying with ASTM D1970
- 2012 IRC Section R905 where exceptions or allowances for ASTM D1970 are referenced

For adhesive-set clay or concrete roof covers, where wind loads may be transferred from the tile to the underlayment, underlayment systems are evaluated for wind resistance in accordance with ANSI/UL 1897.

No.	MDP ¹	System Details	
D1	-142.5psf	Deck ² : Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer’s installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
D2	-202.5psf	Deck ² : Primer: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) ASTM D41 primer Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer’s installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
D3	-210psf	Deck ² : Primer: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) Karnak #89 Sta-Tak Primer Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer’s installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.

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No.	MDP ¹	System Details	
D4	-67.5psf	Deck ² : Base Ply: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) Citadel® Pro applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum No. 12 gage (0.105 inch), ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
C1	-120psf	Deck ² : Primer: Base ply: Underlayment:	Structural concrete ASTM D41 primer Optional ply of Citadel® Plus self-adhered in accordance with manufacturer's installation instructions. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT self-adhered in accordance with manufacturer's installation instructions. Underlayment shall be optionally backnailed as required. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M1	-30psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 12 inches o.c. in two (2) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M2	-45psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with 1- ¹ / ₂ inch Grip-Rite Plastic Cap Nails spaced 6 inches o.c. at the 4 inch wide side laps and 6 inches o.c. in five (5) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with 1- ¹ / ₂ inch Grip-Rite Plastic Cap Nails spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M3	-52.5psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁵ / ₃₂ inch thick, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 9 inches o.c. in three (3) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.



No.	MDP ¹	System Details	
M4	-60psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁹ / ₃₂ inch thick, 40/20 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 8 inches o.c. in four (4) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M5	-67.5psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁹ / ₃₂ inch thick, 40/20 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 7 inches o.c. in four (4) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M6	-90psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁹ / ₃₂ inch thick, 32/16 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 6 inches o.c. in five (5) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.
M7	-97.5psf	Deck ² : Base Sheet: Underlayment:	Minimum ¹⁹ / ₃₂ inch thick, 40/20 span rated, 4-ply, Exposure 1, plywood (DOC PS-1) SwiftAnchor Nailable Base Sheet fastened with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 6 inches o.c. at the 4 inch wide side laps and 6 inches o.c. in five (5) equally spaced rows in the field of the roll. Westlake Royal™ MetalSeal™ HT or Westlake Royal™ TileSeal™ HT applied in accordance with manufacturer's installation instructions. Underlayment shall be backnailed along selvage with minimum 0.120 inch, ³ / ₈ inch diameter head, corrosion resistant, ring shank roofing nails through 32 gage x 1- ⁵ / ₈ inch diameter tin caps spaced 12 inches o.c. The underlayment shall be rolled with a minimum 75lb steel roller immediately following application.

Note(s): 1- indicates Maximum Design Pressure (2:1 margin of safety applied to the maximum test load achieved without failure).

2- indicates Deck Attachment to structural support is outside the scope of this evaluation and shall be to the satisfaction of the Authority Having Jurisdiction.

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Physical Properties:

Underlayments covered under this report have been tested for physical properties in accordance with ASTM D1970 and qualify for use under the following code:

- 2024, 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2024, 2021, 2018, 2015, and 2012 *IRC* Chapter 9

Ice Barrier:

Underlayments covered under this report may be used as ice barriers in accordance with the following code:

- 2024, 2021, 2018, 2015, and 2012 *IBC* Chapter 15
- 2024, 2021, 2018, 2015, and 2012 *IRC* Chapter 9

When installed as an ice barrier, underlayment shall extend from lowest edges of roof surface to a point not less than 24 inches inside the exterior wall line of the building.



INSTALLATION – GENERAL

Underlayments covered under this report must be installed in accordance with the applicable code, this report, and the manufacturer's published installation instructions, which must be available at all times on the jobsite during installation. The underlayments are not the primary roof cover and as such are not intended to be left permanently exposed to direct weather.

Underlayments covered under this report have been evaluated for application to wood decks. Application to other surfaces is outside the scope of this evaluation.

Roof slopes must be minimum 2:12 (16.67% slope or 9°). Prior to application, all underlayments shall be unrolled and allowed to relax for 3-5 min. The underlayment shall be installed with the release backer removed and pressed firmly into place to ensure complete contact with the deck. The minimum application temperature is 40°F and the manufacturer must be contacted when installing below this temperature.

Underlayments covered under this report are moisture and vapor barriers. The spaces under the covered deck area and the attic space must be properly ventilated in accordance with local building codes.

Underlayments covered under this report are intended for exterior applications only.

Deck:

The roof deck must be code-complying, exterior-grade wood structural panel sheathing complying with DOC PS-1 or DOC PS-2 and minimum $\frac{3}{8}$ inch (9.5mm) thick; solid lumber sheathing using minimum nominal 1 by 6 lumber is permitted. Deck surface shall be clean, smooth, dry, free of debris, and structurally sound prior to installing underlayment. All deck fasteners shall be checked for protrusion and corrected prior to underlayment application. Replace any damaged or rotted deck.

Refer to PRODUCT DESCRIPTIONS and APPLICATIONS section

for additional stipulations for roof deck as associated with Fire Classification(s) and Wind Resistance System(s).

Fasteners:

When used for underlayment, fasteners must comply with ASTM F1667 and be minimum No. 12 gage (0.105 inch), $\frac{3}{8}$ inch diameter head, galvanized, stainless steel, aluminum or copper corrosion-resistance nails. Fasteners must penetrate into the deck minimum $\frac{3}{4}$ inch, or through the deck, where the deck is less than $\frac{3}{4}$ inch thick.

Asphalt Cement:

When used with underlayment, asphalt cement must comply with ASTM D4586.

Asphalt Primer:

When used with underlayment, asphalt primer must comply with ASTM D41.

Flashing:

Underlayments covered under this report may be used as flashing material where self-adhering polymer modified bitumen sheet and/or ASTM D1970 are referenced in the following code as applicable:

- 2024, 2021, 2018, 2015, and 2012 *IBC* Section 1507
- 2024, 2021, 2018, 2015, and 2012 *IRC* Section R905

Where underlayment is intended to adhere to metal flashing materials, metal surface shall be primed.

Reroofing:

Prior to the reroofing, all existing roofing must be removed down to the deck. Exposed deck surface shall be clean, smooth, dry, free of debris, and structurally sound prior to installing underlayment. All deck fasteners shall be checked for protrusion and corrected prior to underlayment application. Replace any damaged or rotted deck.



INSTALLATION – UNDERLAYMENTS

Westlake Royal TileSeal™ HT: Westlake Royal TileSeal™ HT may be used as the underlayment for the entire roof with roof coverings of clay and concrete tile, metal shingles, or metal panels. Optionally, Westlake Royal TileSeal™ HT may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. Optionally, Westlake Royal TileSeal™ HT may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration; along a valley, Westlake Royal TileSeal™ HT can be installed as a valley liner. Westlake Royal TileSeal™ HT may be used as a component of fire classified roofing assemblies when installed with clay and concrete tile, metal shingles, metal panels, asphalt shingles, or slate shingles. Westlake Royal TileSeal™ HT is not fire classified for use under mineral-surfaced roll roofing or wood roof coverings.

Westlake Royal TileSeal™ HT shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. To ensure adhesion at the end lap, apply sufficient asphalt primer or asphalt cement to fully penetrate polyester, non-woven fabric surface and apply pressure to seal lap. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 180 days.

For clay and concrete tile applications, the following additional provisions shall be implemented:

- Do not use Westlake Royal TileSeal™ HT below a slope of 2¹/₂:12 when tiles are mechanically-attached.
- Westlake Royal TileSeal™ HT shall be back nailed 12 inches o.c. in the selvage area on roof slopes greater than 3:12 (nails shall be installed perpendicular to the deck slope with the nail heads flush to the top surface of the underlayment).
- On slopes 2:12 to 6:12, it is permissible store tiles directly atop Westlake Royal TileSeal™ HT in stacks no greater than ten (10) tiles per stack.
- On slopes greater than 6:12, tiles shall be stored on battens in stacks no greater than ten (10) tiles per stack.
- In adhesive-set applications, qualified tile adhesives must be used. Qualified adhesives include ICP Adhesives “APOC® Polyset® AH-160”, Dupont de Nemours, Inc. “Tile Bond™ Roof Tile Adhesive”, DAP® “StormBond® Roof Tile Adhesive”, or “StormBond® 2 Roof Tile Adhesive”

Westlake Royal MetalSeal™ HT: Westlake Royal MetalSeal™ HT may be used as the underlayment for the entire roof with roof coverings of clay and concrete tile, metal shingles, or metal panels. Optionally, Westlake Royal MetalSeal™ HT may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. Optionally, Westlake Royal MetalSeal™ HT may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration; along a valley, Westlake Royal MetalSeal™ HT can be installed as a valley liner. Westlake Royal MetalSeal™ HT may be used as a component of fire classified roofing assemblies when installed with clay and concrete tile, metal shingles, metal panels, asphalt shingles, or slate shingles. Westlake Royal MetalSeal™ HT is not fire classified for use under mineral-surfaced roll roofing or wood roof coverings.

Westlake Royal MetalSeal™ HT shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. To ensure adhesion at the end lap, apply sufficient asphalt primer or asphalt cement to fully penetrate polyester, non-woven fabric surface and apply pressure to seal lap. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 180 days.

For clay and concrete tile applications, the following additional provisions shall be implemented:

- Do not use Westlake Royal MetalSeal™ HT below a slope of 2¹/₂:12 when tiles are mechanically-attached.
- Westlake Royal MetalSeal™ HT shall be back nailed 12 inches o.c. in the selvage area on roof slopes greater than 3:12 (nails shall be installed perpendicular to the deck slope with the nail heads flush to the top surface of the underlayment).
- On slopes 2:12 to 6:12, it is permissible store tiles directly atop Westlake Royal MetalSeal™ HT in stacks no greater than ten (10) tiles per stack.
- On slopes greater than 6:12, tiles shall be stored on battens in stacks no greater than ten (10) tiles per stack.



In adhesive-set applications, qualified tile adhesives must be used. Qualified adhesives include ICP Adhesives “APOC® Polyset® AH-160”, Dupont de Nemours, Inc. “Tile Bond™ Roof Tile Adhesive”, DAP® “StormBond® Roof Tile Adhesive”, or “StormBond® 2 Roof Tile Adhesive”

GatorSeal® Underlayment: GatorSeal® Underlayment may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, GatorSeal® Underlayment can be installed as a valley liner. Optionally, GatorSeal® Underlayment may be used as the underlayment for the entire roof with mechanically attached roof coverings of asphalt shingles, slate shingles, or wood shakes. GatorSeal® Underlayment may be used as a component of fire classified roofing assemblies when installed with asphalt shingles or slate shingles. GatorSeal® Underlayment is not fire classified for use under clay and concrete tile, metal, mineral-surfaced roll roofing, or wood roof coverings.

GatorSeal® Underlayment shall be installed as directed in the published installation instructions. Asphalt primer may be required for applications to oriented strand board (OSB). Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

Citadel® Plus: Citadel® Plus may be used as an optionally base sheet in multi-ply underlayment systems for mechanically attached roof coverings of clay and concrete tile, metal shingles, metal panels, asphalt shingles, slate shingles, or wood shakes. Citadel® Plus shall be covered by Westlake Royal TileSeal™ HT, Westlake Royal MetalSeal™ HT, or GatorSeal® Underlayment. Limits of use are those associated with the top-layer material. Optionally, Citadel® Plus may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, Citadel® Plus can be installed as a valley liner.

Citadel® Plus shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.

Citadel® Pro: Citadel® Pro may be used as an optionally base sheet in multi-ply underlayment systems for mechanically attached roof coverings of clay and concrete tile, metal shingles, metal panels, asphalt shingles, slate shingles, or wood shakes. Citadel® Pro shall be covered by Westlake Royal TileSeal™ HT, Westlake Royal MetalSeal™ HT, or GatorSeal® Underlayment. Limits of use are those associated with the top-layer material. Optionally, Citadel® Pro may be applied as waterproof barrier around eaves, rakes, valleys, vents, chimneys, skylights, and other areas of roof detail that may benefit from additional protection against water infiltration. Along a valley, Citadel® Pro can be installed as a valley liner.

Citadel® Pro shall be installed as directed in the published installation instructions. Side laps shall be a minimum of 3 inches. End laps shall be a minimum of 6 inches. Shingle laps, with the upslope piece overlapping the downslope piece, shall be implemented. UV exposure on the roof deck shall be limited to a maximum of 30 days.



CONDITIONS OF USE & IDENTIFICATION

The products described in this report comply with, or are suitable alternatives to, the codes listed in this report, subject to the following conditions:

- The products as well as the installation methods must be in compliance with the applicable code, this report, and the installation instruction provided by the manufacturer. If the manufacturer's installation instructions differ from what is listed in this report, this report governs.
- This report does not supersede the local jurisdiction regulations and the final approval of the building products, materials, or systems in this report is the responsibility of the authorities having jurisdiction.
- This report is only valid if the product(s) and/or the referenced documentation/codes related to the products do not change. If there is a change in product(s) and/or the referenced documentation/codes related to the products, PRI Construction Materials Technologies, LLC must be informed and further action may be necessary to revalidate this report.
- This report, in its entirety, must be available at job sites upon request by the user or for inspection by the Building Official. A copy of this report in full shall be provided by the manufacturer or its distributors.
- The products are identified by marks bearing the report holder's name, the manufacture location, the product name, and the Seal of PRI Validation Program for Building Materials. The Seal shall indicate, at a minimum, the following:
 - a. ASTM D1970
 - b. ASTM E108 – Class A
- The products are manufactured at the locations listed in this report and are manufactured under a quality control program with inspections and/or surveillance by PRI Construction Materials Technologies, LLC.
- This report is a supplement to product certification. The products listed herein must be certified separately under the PRI Validation Program for Building Products. This report alone is not a product certification and requires separate product certification under the PRI Validation Program for Building Products to be valid.
- The current status of this report as well as a directory of certified products, including supplemental PRI Evaluation Reports, can be found at pri-group.com.

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