FL #	FL21350-R4
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Atlas Roofing Corporation
Address/Phone/Email	2000 RiverEdge Parkway Suite 800 Atlanta, GA 30328 (770) 946-4571 mcollins@atlasroofing.com
Authorized Signature	Meldrin Collins mcollins@atlasroofing.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Underlayments
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest
Florida License	PE-74021
Quality Assurance Entity	Intertek Testing Services NA, Inc. - QA Entity
Quality Assurance Contract Expiration Date	12/31/2023
Validated By	Steven M. Urich, PE Validation Checklist - Hardcopy Received
Certificate of Independence	FL21350_R4_COI_ATL16001.4 2020 FBC Eval Summit Underlayments Final.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1507.1.1
Product Approval Method	Method 2 Option B

Date Submitted	01/10/2021
Date Validated	01/10/2021
Date Pending FBC Approval	01/21/2021
Date Approved	04/13/2021

Summary of Products

FL #	Model, Number or Name	Description
21350.1	Summit 60 and Summit 180 Underlayments	Mechanically attached, synthetic underlayments used as an alternative to ASTM D 226 Type II underlayment.
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** N/A **Other:** See evaluation report for limits of use.		**Installation Instructions** FL21350_R4_II_ATL16001.4 2020 FBC Eval Summit Underlayments Final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes **Evaluation Reports** FL21350_R4_AE_ATL16001.4 2020 FBC Eval Summit Underlayments Final.pdf Created by Independent Third Party: Yes

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CREEK
TECHNICAL SERVICES, LLC

Certificate of Authorization No. 29824
17520 Edinburgh Drive
Tampa, FL 33647
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Issued January 10, 2021

Manufacturer: ATLAS ROOFING CORPORATION
2000 Riveredge Parkway, Suite 800
Atlanta, GA 30328
(770) 612-6267
www.atlasroofing.com

Manufacturing Locations: Hebei, China

Quality Assurance: Intertek Testing Services NA Inc. (QUA1673)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1507.1.1
Properties: Physical properties

REFERENCES

Entity	Report No.	Standard	Year
Intertek Testing Services NA, Inc. (EVL11327)	CCRR-1038	AC 188	2012
Intertek Testing Services NA, Inc. (EVL11327)	CCRR-1038	ASTM D 226	2009
Intertek Testing Services NA Ltd. (TST1509)	141128020SHJ-BP-1	AC 188	2012
		ASTM D 4869	2016
PRI Construction Materials Technologies (TST5878)	ATL-238-020-1	TAS 117(B)	2020
PRI Construction Materials Technologies (TST5878)	117T0023	ASTM D 4533	2015
		ASTM D 5035	2011(2019)
PRI Construction Materials Technologies (TST5878)	117T0025	ASTM D 4533	2015
		ASTM D 5035	2011(2019)

PRODUCT DESCRIPTION

Summit 60 A mechanically attached, synthetic underlayment used an alternative to ASTM D 226, Type II roofing underlayments with a minimum tear strength per ASTM D 4533 of 15 pounds, a minimum tensile strength per ASTM D 5035 of 20 pounds/inch, and meets liquid water transmission test of Section 8.6 of ASTM D 4869. The roll is available in 48-inch wide x 250-ft long format and weighs approximately 23 lbs.

Summit 180 A mechanically attached, synthetic underlayment used an alternative to ASTM D 226, Type II roofing underlayments with a minimum tear strength per ASTM D 4533 of 15 pounds, a minimum tensile strength per ASTM D 5035 of 20 pounds/inch, and meets liquid water transmission test of Section 8.6 of ASTM D 4869. The roll is available in 48-inch wide x 250-ft long format and weighs approximately 30 lbs.

APPLICATION INSTRUCTIONS

Deck Type: The roof deck shall be constructed of closely fitted, solid sheathing for new or existing construction. Sheathing shall be installed in accordance with FBC requirements. Roof decks shall have no more than 1/8" gap at abutting joints.

Attachment method: Underlayment shall be attached in accordance with the FBC and manufacturer's installation instructions. The underlayment is installed starting at the eave, with the length of the roll parallel to the eave with the printed side facing up. All side laps shall be installed to shed water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions. Minimum application temperature shall be 50°F.

1507.1.1 Exception: Equivalency of 1-inch diameter plastic cap nails where the ultimate design wind speed, V_{ult}, equals or exceeds 170mph has been demonstrated for Summit 60 and Summit 180 by increasing the attachment density by a factor of 3.

Allowable roof coverings: Mechanically fastened roof coverings as prescribed in FBC Section 1507.1.1 and Table 1507.1.1.1 shall be permitted.

LIMITATIONS

1) This evaluation report is not for use in the HVHZ.
2) Fire Classification is not within the scope of this evaluation.
3) Wind uplift resistance is not within the scope of this evaluation.
4) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
5) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
6) Roof slope limitations shall be in accordance with FBC requirements.
7) Contact the manufacturer when installing at temperatures below the minimum application temperature.
8) The underlayment may be used as described in other current FBC product approval documents.
9) Roof coverings shall not be adhered directly to the underlayment. Roof coverings shall be mechanically fastened through the underlayment to the roof deck.
10) The underlayment shall be exposed on the roof deck for a maximum 30 days unless otherwise stated.
11) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) as evidenced in the referenced documents submitted by the named manufacturer.

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Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT

CREEK
TECHNICAL SERVICES, LLC

Certificate of Authorization No. 29824
17520 Edinburgh Drive
Tampa, FL 33647
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Issued January 10, 2021

Manufacturer: ATLAS ROOFING CORPORATION
2000 Riveredge Parkway, Suite 800
Atlanta, GA 30328
(770) 612-6267
www.atlasroofing.com

Manufacturing Locations: Hebei, China

Quality Assurance: Intertek Testing Services NA Inc. (QUA1673)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1507.1.1
Properties: Physical properties

REFERENCES

Entity	Report No.	Standard	Year
Intertek Testing Services NA, Inc. (EVL11327)	CCRR-1038	AC 188	2012
Intertek Testing Services NA, Inc. (EVL11327)	CCRR-1038	ASTM D 226	2009
Intertek Testing Services NA Ltd. (TST1509)	141128020SHJ-BP-1	AC 188	2012
		ASTM D 4869	2016
PRI Construction Materials Technologies (TST5878)	ATL-238-020-1	TAS 117(B)	2020
PRI Construction Materials Technologies (TST5878)	117T0023	ASTM D 4533	2015
		ASTM D 5035	2011(2019)
PRI Construction Materials Technologies (TST5878)	117T0025	ASTM D 4533	2015
		ASTM D 5035	2011(2019)

PRODUCT DESCRIPTION

Summit 60 A mechanically attached, synthetic underlayment used an alternative to ASTM D 226, Type II roofing underlayments with a minimum tear strength per ASTM D 4533 of 15 pounds, a minimum tensile strength per ASTM D 5035 of 20 pounds/inch, and meets liquid water transmission test of Section 8.6 of ASTM D 4869. The roll is available in 48-inch wide x 250-ft long format and weighs approximately 23 lbs.

Summit 180 A mechanically attached, synthetic underlayment used an alternative to ASTM D 226, Type II roofing underlayments with a minimum tear strength per ASTM D 4533 of 15 pounds, a minimum tensile strength per ASTM D 5035 of 20 pounds/inch, and meets liquid water transmission test of Section 8.6 of ASTM D 4869. The roll is available in 48-inch wide x 250-ft long format and weighs approximately 30 lbs.

APPLICATION INSTRUCTIONS

Deck Type:	The roof deck shall be constructed of closely fitted, solid sheathing for new or existing construction. Sheathing shall be installed in accordance with FBC requirements. Roof decks shall have no more than 1/8" gap at abutting joints.
Attachment method:	Underlayment shall be attached in accordance with the FBC and manufacturer's installation instructions. The underlayment is installed starting at the eave, with the length of the roll parallel to the eave with the printed side facing up. All side laps shall be installed to shed water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions. Minimum application temperature shall be 50°F. *1507.1.1 Exception:* Equivalency of 1-inch diameter plastic cap nails where the ultimate design wind speed, V_{ult}, equals or exceeds 170mph has been demonstrated for Summit 60 and Summit 180 by increasing the attachment density by a factor of 3.
Allowable roof coverings:	Mechanically fastened roof coverings as prescribed in FBC Section 1507.1.1 and Table 1507.1.1.1 shall be permitted.

LIMITATIONS

1) This evaluation report is not for use in the HVHZ.
2) Fire Classification is not within the scope of this evaluation.
3) Wind uplift resistance is not within the scope of this evaluation.
4) Installation of the evaluated product shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
5) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
6) Roof slope limitations shall be in accordance with FBC requirements.
7) Contact the manufacturer when installing at temperatures below the minimum application temperature.
8) The underlayment may be used as described in other current FBC product approval documents.
9) Roof coverings shall not be adhered directly to the underlayment. Roof coverings shall be mechanically fastened through the underlayment to the roof deck.
10) The underlayment shall be exposed on the roof deck for a maximum 30 days unless otherwise stated.
11) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) as evidenced in the referenced documents submitted by the named manufacturer.

2021.01.10
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Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT

FL #	FL16305-R10
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Atlas Roofing Corporation
Address/Phone/Email	2000 RiverEdge Parkway Suite 800 Atlanta, GA 30328 (770) 946-4571 mcollins@atlasroofing.com
Authorized Signature	Meldrin Collins mcollins@atlasroofing.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest
Florida License	PE-74021
Quality Assurance Entity	PRI Construction Materials Technologies, LLC
Quality Assurance Contract Expiration Date	12/31/2024
Validated By	Steven M. Urich, PE Validation Checklist - Hardcopy Received
Certificate of Independence	FL16305_R10_COI_ATL13002.10 2020 FBC Eval Shingles final.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D 3161	2016
ASTM D 3462	2010
ASTM D 7158	2019
TAS 100	1995
TAS 107	2020

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	02/11/2021
Date Validated	02/11/2021
Date Pending FBC Approval	02/22/2021
Date Approved	04/13/2021

Summary of Products

FL #	Model, Number or Name	Description
16305.1	Atlas Shingles	Fiberglass reinforced laminated asphalt shingles
Limits of Use **Approved for use in HVHZ:** Yes **Approved for use outside HVHZ:** Yes **Impact Resistant:** N/A **Design Pressure:** N/A **Other:** See evaluation report for limits of use		**Installation Instructions** FL16305_R10_II_ATL13002.10 2020 FBC Eval Shingles final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes **Evaluation Reports** FL16305_R10_AE_ATL13002.10 2020 FBC Eval Shingles final.pdf Created by Independent Third Party: Yes

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CREEK
TECHNICAL SERVICES, LLC

Registry No. 29824
17520 Edinburgh Dr
Tampa, FL 33647
(813) 480-3421

EVALUATION REPORT **FLORIDA BUILDING CODE 7TH EDITION (2020)**

Manufacturer: ATLAS ROOFING CORPORATION
2000 Riveredge Parkway, Suite 800
Atlanta, GA 30328
(770) 612-6267

Issued February 11, 2021

Manufacturing Plants: Hampton, GA
Meridian, MS
Dangerfield, TX
Ardmore, OK
Franklin, OH

Quality Assurance: PRI Construction Materials Technologies, LLC
(QUA9110)

SCOPE

Category: Roofing
Subcategory: Asphalt Shingles
Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.1.1, 1507.2.5, 1507.2.7.1, 1523.6.5.1
Properties: Physical properties, Wind Resistance, Wind Driven Rain

PRODUCT DESCRIPTION

Legend (Ardmore)	ASTM D 3161, Class F fiberglass reinforced, 3-tab asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
GlassMaster® 30 (Ardmore & Hampton)	ASTM D 3161, Class F fiberglass reinforced, 3-tab asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
Tough-Master® 20 (Ardmore & Hampton)	ASTM D 3161, Class F fiberglass reinforced, 3-tab asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
Pro-Cut® Hip & Ridge (Ardmore & Hampton)	ASTM D 3161, Class F fiberglass reinforced, hip and ridge asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
Pro-Cut® Starter Strip (Ardmore & Hampton)	ASTM D 3161, Class F fiberglass reinforced, starter asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
ProLAM™ Architectural (Hampton, Franklin & Meridian)	ASTM D 3161, Class F & ASTM D 7158, Class H fiberglass reinforced, laminated architectural asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
Pinnacle® Pristine, Pinnacle® Pristine Lifetime w/Scotchgard (Dangerfield, Hampton, Franklin & Meridian)	ASTM D 3161, Class F & ASTM D 7158, Class H fiberglass reinforced, laminated architectural asphalt shingle with two, dashed, thermally-activated, self-sealing sealant stripes that complies with ASTM D 3462.
StormMaster® Hip & Ridge (Ardmore)	ASTM D 3161, Class F fiberglass reinforced, hip and ridge modified asphalt shingle with a dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.

StormMaster® Shake (Dangerfield)	ASTM D 3161, Class F & ASTM D 7158, Class H fiberglass reinforced, laminated architectural modified asphalt shingle with two, dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.
StormMaster® Slate (Ardmore)	ASTM D 3161, Class F & ASTM D 7158, Class H fiberglass reinforced, laminated architectural modified asphalt shingle with two, dashed, thermally-activated, self-sealing sealant stripe that complies with ASTM D 3462.

REFERENCES

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	ATL-079-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-083-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-086-02-01 Rev 1	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-104-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-106-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-106-02-01 Rev 1	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-107-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-107-02-01.1	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-109-02-01	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-116-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-118-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-119-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-123-02-01	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-125-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-127-02-01 Rev 1	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-132-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-133-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-135-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-136-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-137-02-01 Rev 1	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-138-02-01 Rev 1	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-143-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-144-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-151-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-162-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-167-02-01	ASTM D 3161	2016
PRI Construction Materials Technologies (TST5878)	ATL-168-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-169-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-170-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-171-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-172-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-174-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-179-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-184-02-01	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-185-02-01	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-186-02-01	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-187-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-220-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-220-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-220-02-03	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-220-02-04	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-221-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-221-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-221-02-03	ASTM D 3161	2016
		TAS 107	2020

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	ATL-221-02-04	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-222-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-222-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-222-02-03	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-222-02-04	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-223-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-223-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-223-02-03	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-223-02-04	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	ATL-224-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-225-02-01	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	ATL-225-02-02	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	ATL-225-02-03	ASTM D 3161	2016
		TAS 107	2020
PRI Construction Materials Technologies (TST5878)	ATL-225-02-04	ASTM D 7158	2019
PRI Construction Materials Technologies (TST5878)	117T0021	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	117T0026	ASTM D 3462	2010A
PRI Construction Materials Technologies (TST5878)	117T0027	TAS 100	1995
PRI Construction Materials Technologies (TST5878)	117T0028	ASTM D 3161	2016
		TAS 107	2020
CREEK Technical Services LLC (ANE11669)	ATL13002.7	Calculations	2018

INSTALLATION

Legend

Basic Wind Speed (V_{ult}):	Max. 194 mph
Basic Wind Speed (V_{asd}):	Max. 150 mph
Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
Underlayment:	In accordance with FBC requirements.
Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
Installation (HVHZ):	Installed with 5-inch exposure in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached using "6 Nail Pattern" detailed below.
Installation (Non-HVHZ):	Installed with 5-inch exposure in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached using either "4 Nail Pattern" or "6 Nail Pattern" detailed below.

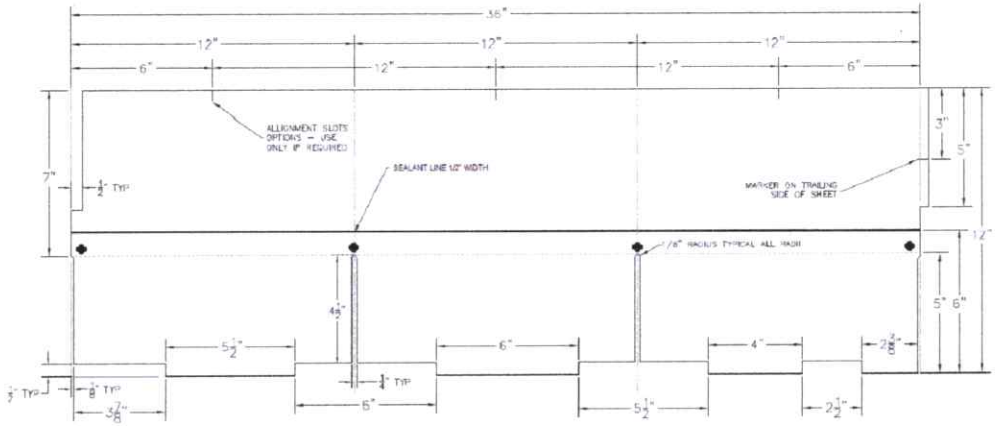

Figure 1. Legend 4 Nail Pattern (Non-HVHZ only)

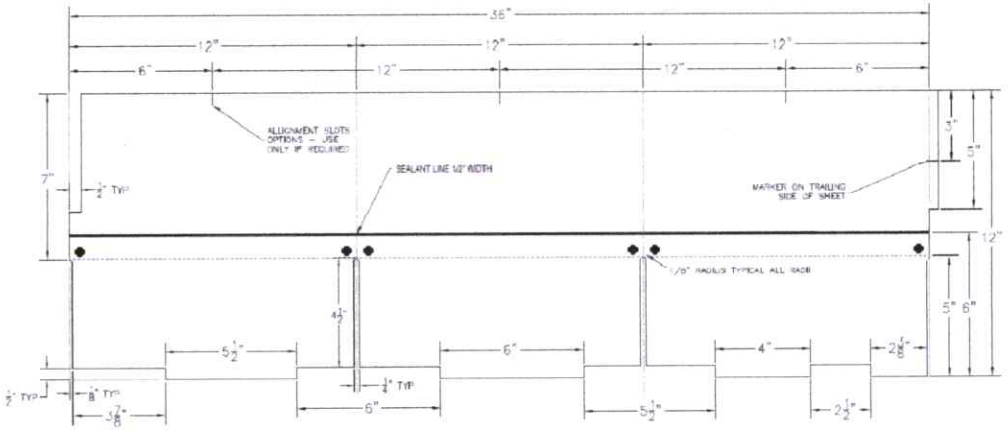

Figure 2. Legend 6 Nail Pattern

GlassMaster® 30 & Tough-Master® 20	Basic Wind Speed (V_{ult}):	Max. 194 mph
	Basic Wind Speed (V_{asd}):	Max. 150 mph
	Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
	Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
	Underlayment:	In accordance with FBC requirements.
	Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
	Installation (HVHZ):	Installed with 5-inch exposure in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached using "6 Nail Pattern" detailed below.
	Installation (Non-HVHZ):	Installed with 5-inch exposure in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached using either "4 Nail Pattern" or "6 Nail Pattern" detailed below.

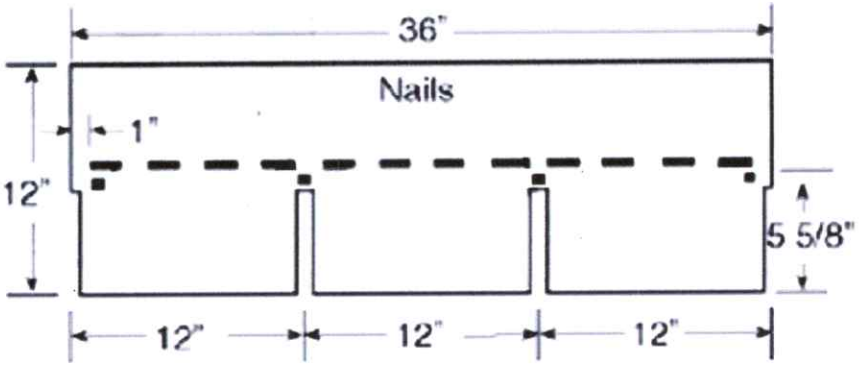

Figure 3. GlassMaster® 30 & Tough-Master® 20 4 Nail Pattern (Non-HVHZ only)

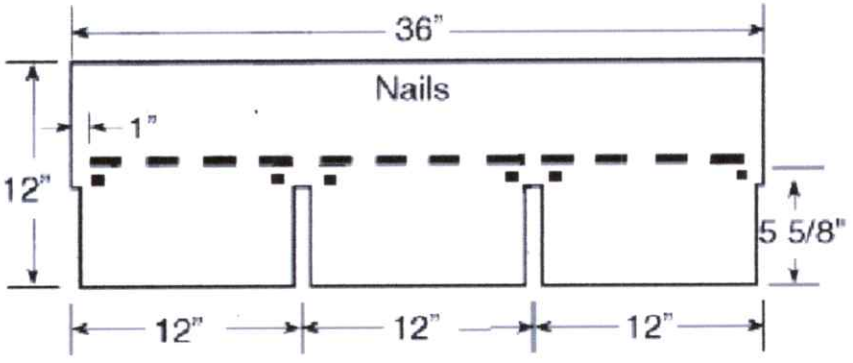

Figure 4. GlassMaster® 30 & Tough-Master® 20 6 Nail Pattern

ProLAM™ Architectural	Basic Wind Speed (V_{ult}):	Max. 194 mph
	Basic Wind Speed (V_{asd}):	Max. 150 mph
	Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
	Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
	Underlayment:	In accordance with FBC requirements.
	Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
	Installation (HVHZ):	Installed with 6 in. exposure in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached using "6 Nail Pattern" detailed below.
	Installation (Non-HVHZ):	Installed with 6 in. exposure in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached using either "4 Nail Pattern" or "6 Nail Pattern" detailed below.

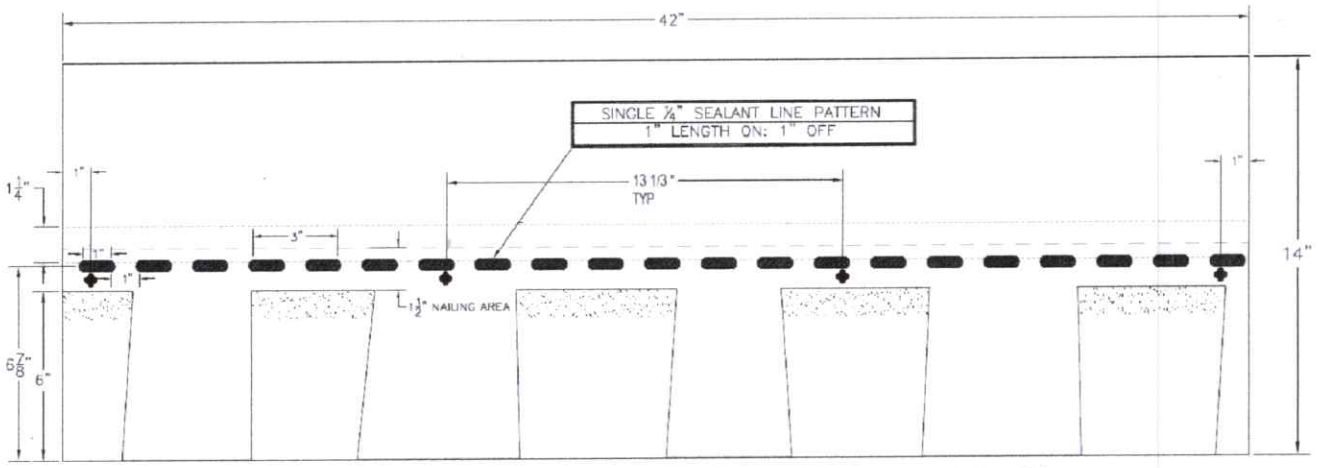

Figure 5. ProLAM™ Architectural Shingle 4 Nail Pattern (non-HVHZ only)

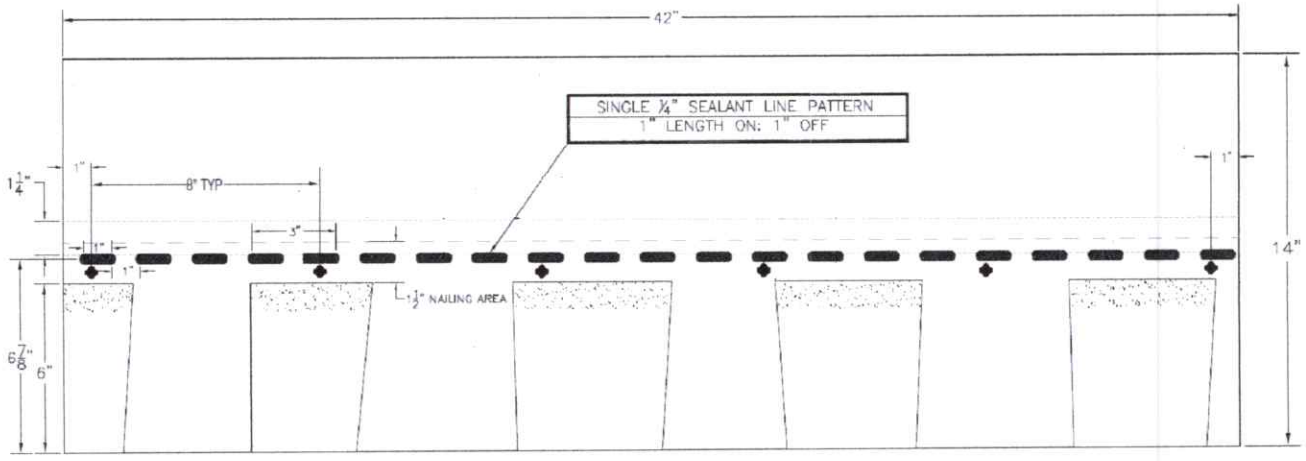

Figure 6. Pro-LAM™ Architectural Shingle 6 Nail Pattern

Pinnacle® Pristine & StormMaster® Shake	Basic Wind Speed (V_{ult}):	Max. 194 mph
	Basic Wind Speed (V_{asd}):	Max. 150 mph
	Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
	Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
	Underlayment:	In accordance with FBC requirements.
	Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
	Installation (HVHZ):	Installed with 6 in. exposure in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached using "6 Nail Pattern" detailed below.
	Installation (Non-HVHZ):	Installed with 6 in. exposure in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached using either "4 Nail Pattern" or "6 Nail Pattern" detailed below.

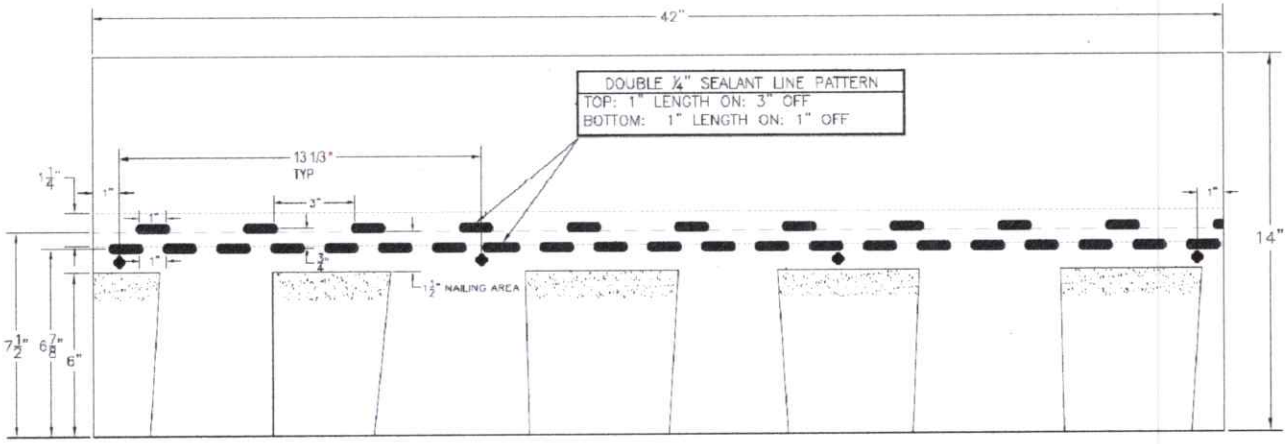

Figure 7. Pinnacle® Pristine and StormMaster® Shake 4 Nail Pattern (Non-HVHZ only)

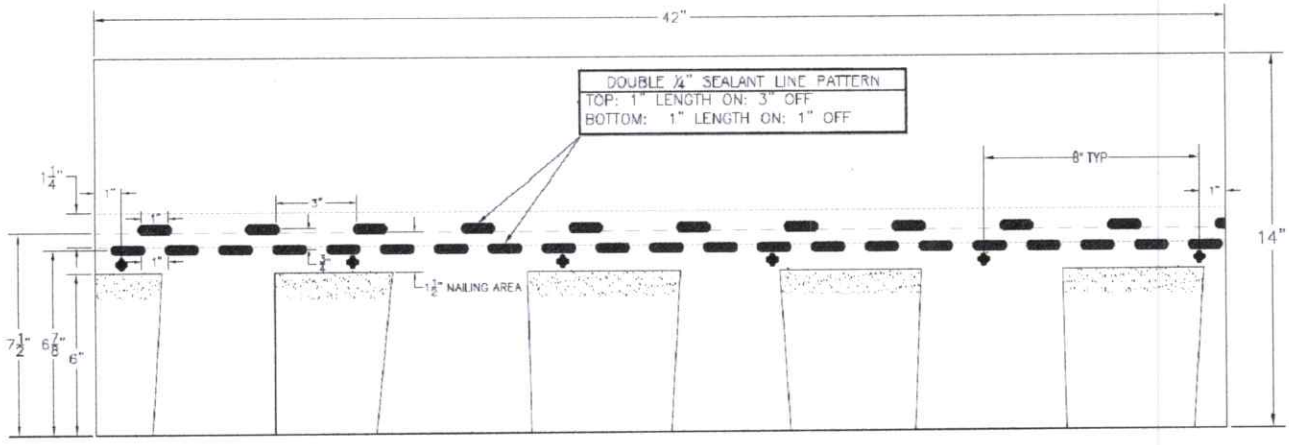

Figure 8. Pinnacle® Pristine and StormMaster® Shake 6 Nail Pattern

StormMaster® Slate

Basic Wind Speed (V_{ult}):	Max. 194 mph
Basic Wind Speed (V_{asd}):	Max. 150 mph
Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
Underlayment:	In accordance with FBC requirements.
Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
Installation (HVHZ):	Installed with 8.5 in. exposure in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached using "6 Nail Pattern" detailed below.
Installation (Non-HVHZ):	Installed with 8.5 in. exposure in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached using either "4 Nail Pattern" or "6 Nail Pattern" detailed below.

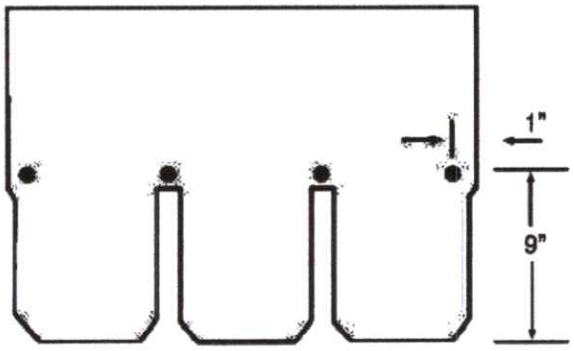

Figure 9. StormMaster® Slate 4 Nail Pattern

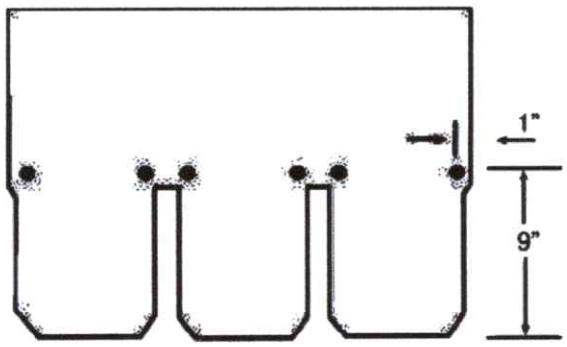

Figure 10. StormMaster® Slate 6 Nail Pattern

Pro-Cut® Starter Strip	Basic Wind Speed (V_{ult}):	Max. 194 mph
	Basic Wind Speed (V_{asd}):	Max. 150 mph
	Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
	Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
	Underlayment:	In accordance with FBC requirements.
	Min. slope:	2:12 and in accordance with FBC requirements. Contact the Atlas Roofing Corporation when installing at slope greater than 21:12.
	Installation (HVHZ):	Installed in accordance with RAS 115 and manufacturer's published installation instructions. Shingles shall be attached as shown below.
	Installation (Non-HVHZ):	Installed in accordance with FBC requirements and manufacturer's published installation instructions. Shingles shall be attached as shown below.

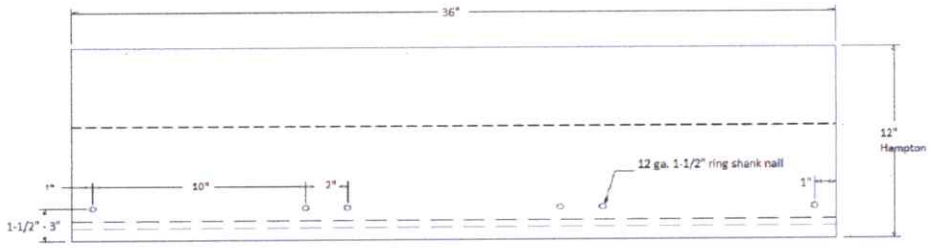

Figure 11. Pro-Cut® Starter Strip

Pro-Cut® Hip & Ridge & StormMaster® Hip & Ridge	Basic Wind Speed (V_{ult}):	Max. 194 mph
	Basic Wind Speed (V_{asd}):	Max. 150 mph
	Deck (HVHZ):	In accordance with FBC requirements; Solidly sheathed min. 19/32 in. plywood or wood plank for new construction; Min. 15/32 in. plywood existing construction.
	Deck (Non-HVHZ):	Solidly sheathed in accordance with FBC requirements.
	Underlayment:	In accordance with FBC requirements.
	Min. slope:	2:12 and in accordance with FBC requirements.
	Installation (HVHZ and non-HVHZ):	Installed with 5-5/8 inch exposure in accordance with RAS 115 (HVHZ only) and manufacturer's published installation instructions. The direction of the exposed end shall be away from the prevailing wind.

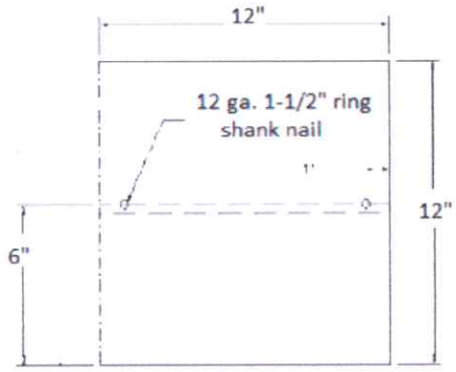

Figure 12. Pro-Cut® Hip & Ridge and StormMaster® Hip & Ridge

LIMITATIONS

1) Fire Classification is not within the scope of this evaluation.
2) The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
3) The mean roof height shall be restricted to a maximum 33 ft in the HVHZ.
4) Classification to ASTM D 7158 applies to exposure B & C with a building mean roof height of 60-ft or less.
5) Deck substrates shall be clean, dry, and free from any irregularities and debris. All fasteners in the deck shall be checked for protrusion and corrected prior to underlayment application.
6) Shingles shall be installed starting at the eave in horizontal layers such that the laps shed water from the deck.
7) Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and code compliant detail shall prevail.
8) All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.

Digitally signed by Zachary R. Priest
2021.02.11 12:45:39 -05'00'

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT