Product Approval
USER: Public User

Atlas

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

Back Next

CREEK
TECHNICAL SERVICES, LLC

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

EVALUATION REPORT

FLORIDA BUILDING CODE 7TH EDITION (2020)

Issued February 11, 2021

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

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
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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
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PRI Construction Materials Technologies (TST5878)	ATL-144-02-01	ASTM D 3161	2016
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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.

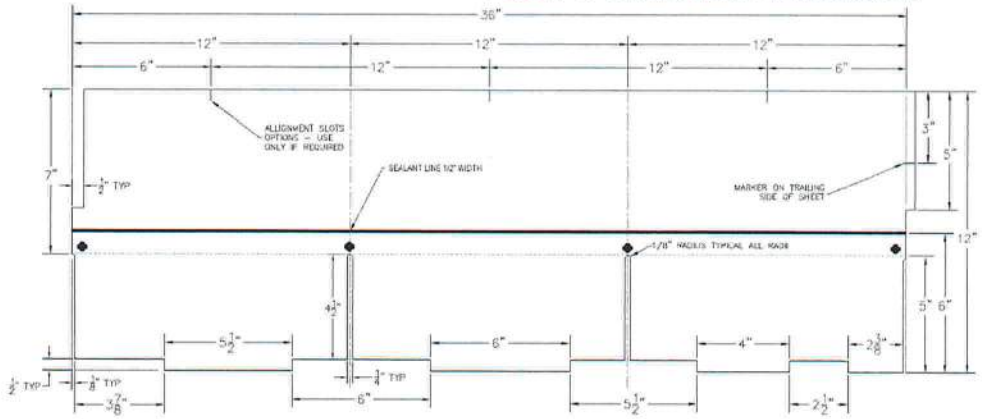

Figure 1. Legend 4 Nail Pattern (Non-HVHZ only)

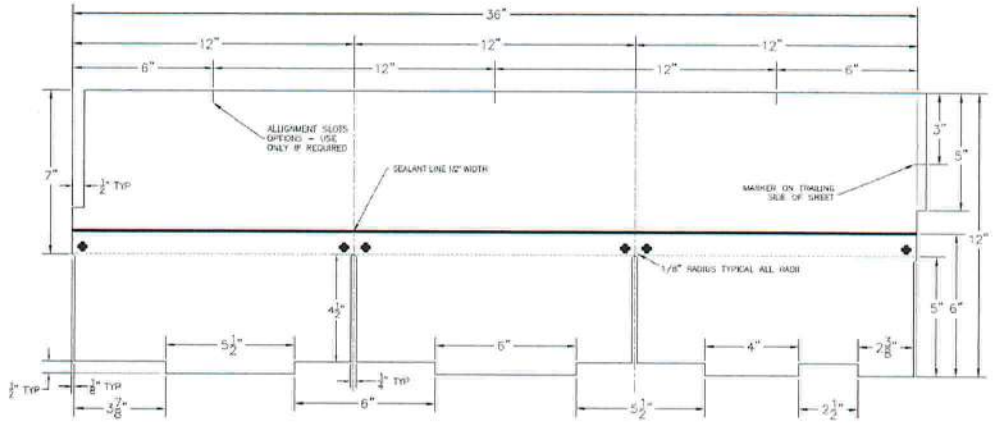

Figure 2. Legend 6 Nail Pattern

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.

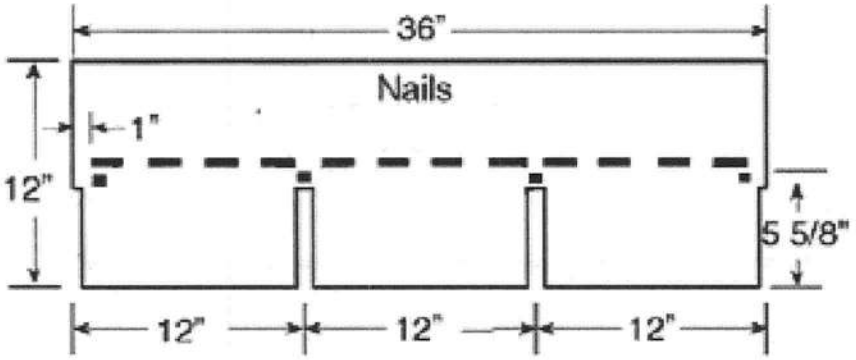

Figure 3. GlassMaster® 30 & Tough-Master® 20 4 Nail Pattern (Non-HVHZ only)

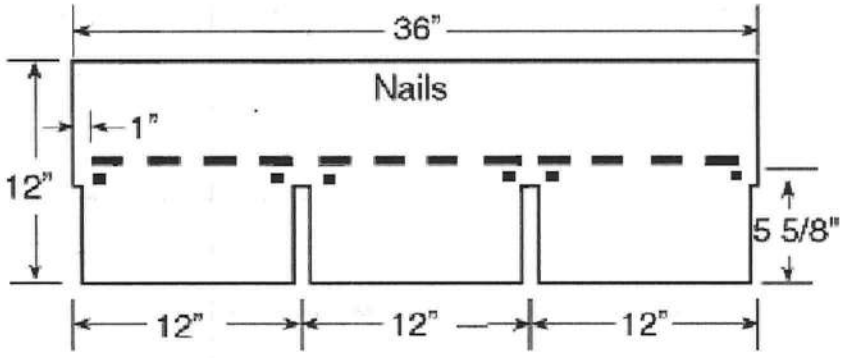

Figure 4. GlassMaster® 30 & Tough-Master® 20 6 Nail Pattern

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.

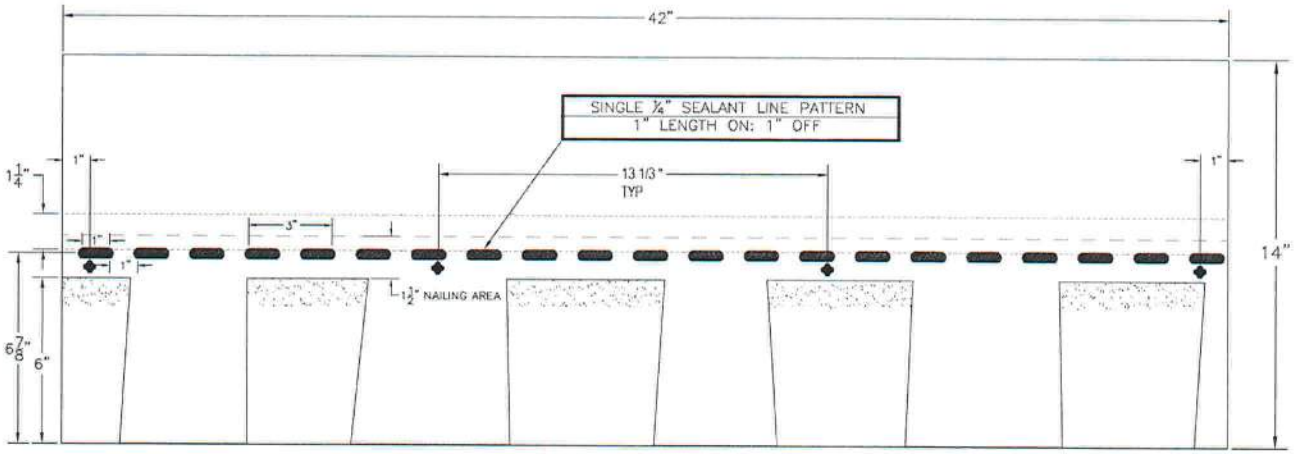

Figure 5. ProLAM™ Architectural Shingle 4 Nail Pattern (non-HVHZ only)

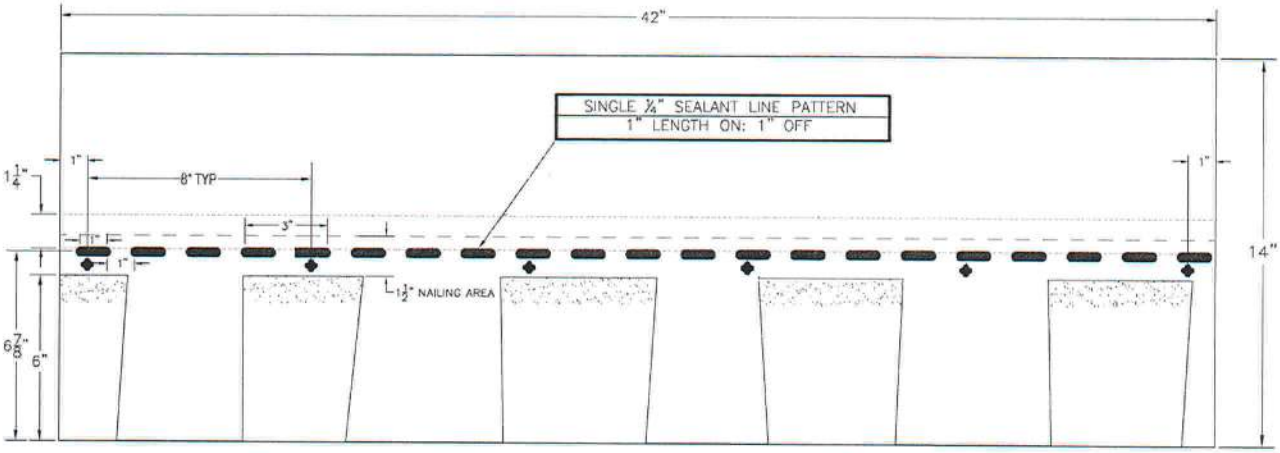

Figure 6. Pro-LAM™ Architectural Shingle 6 Nail Pattern

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.

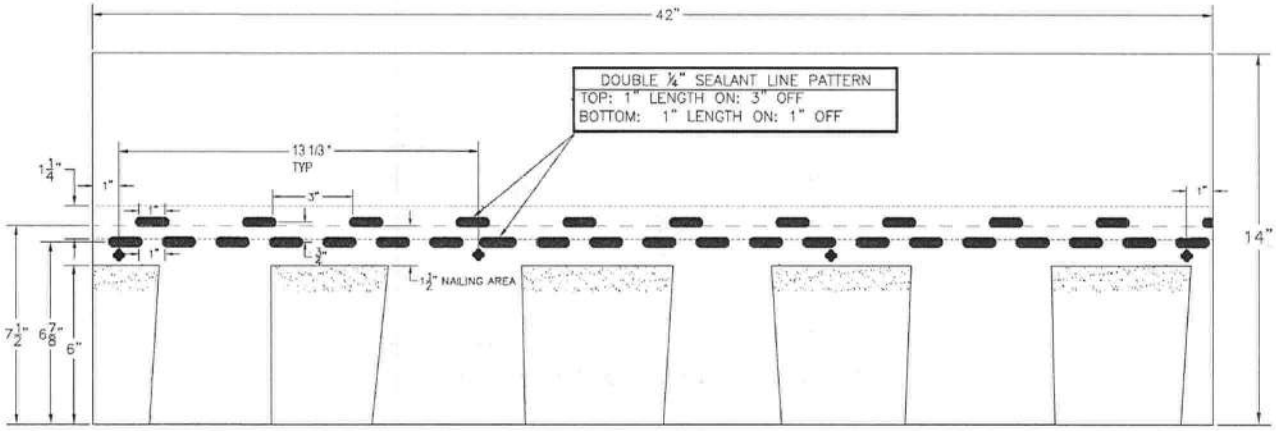

Figure 7. Pinnacle® Pristine and StormMaster® Shake 4 Nail Pattern (Non-HVHZ only)

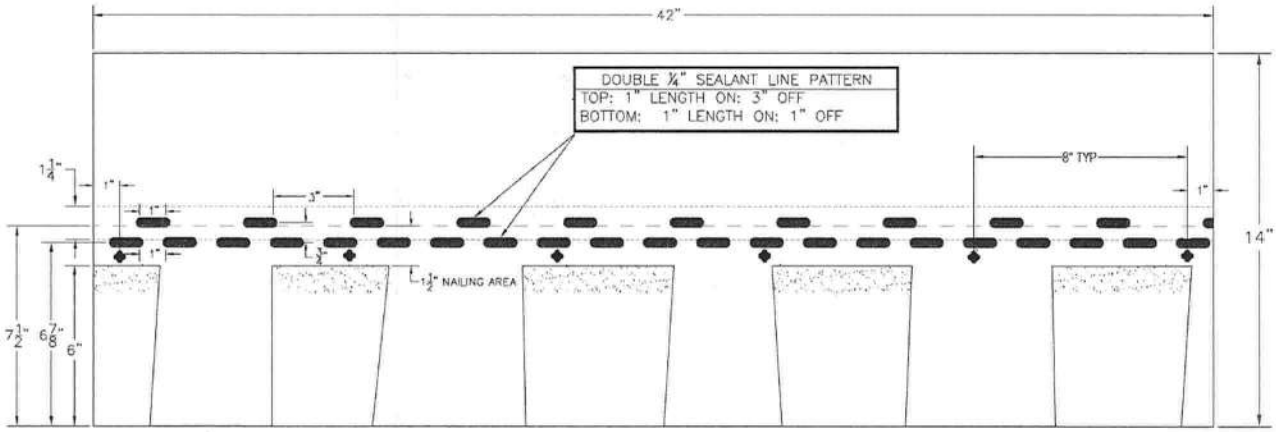

Figure 8. Pinnacle® Pristine and StormMaster® Shake 6 Nail Pattern

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.

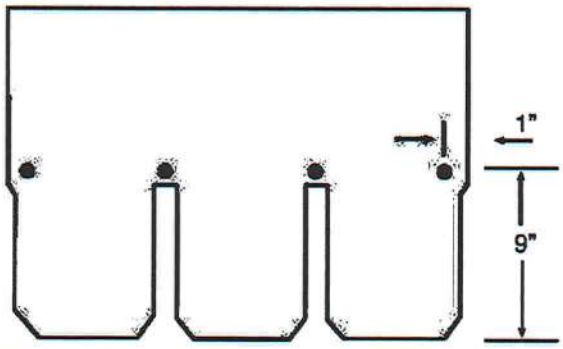

Figure 9. StormMaster® Slate 4 Nail Pattern

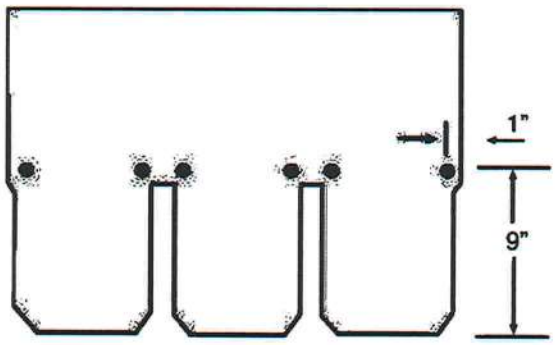

Figure 10. StormMaster® Slate 6 Nail Pattern

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.

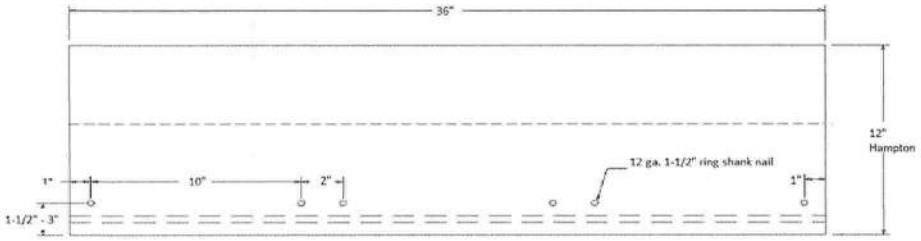

Figure 11. Pro-Cut® Starter Strip

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.

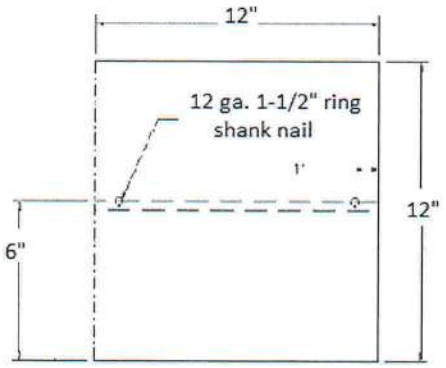

Figure 12. Pro-Cut® Hip & Ridge and StormMaster® Hip & Ridge

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

MSA Quick Felt

FL #	FL17188-R5
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Mid-States Asphalt & Cant Strip, Inc.
Address/Phone/Email	1637 51st Ave Tuscaloosa, AL 35401 (205) 394-3078 moises@msaroof.com
Authorized Signature	Moises Rached moises@msaroof.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	UL LLC
Quality Assurance Contract Expiration Date	01/22/2022
Validated By	Steven M. Urich, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL17188_R5_COI_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D 1970	2015
ASTM D 226	2009
ASTM D 4533	2015
ASTM D 4869	2016

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	09/24/2020
Date Validated	09/25/2020
Date Pending FBC Approval	09/30/2020
Date Approved	12/15/2020

Summary of Products

FL #	Model, Number or Name	Description
17188.1	MSA Quick-Felt	Synthetic underlayment alternative to ASTM D 226 Type I and Type II for use in steep slope roofing

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** FL17188_R5_II_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Verified By: Zachary R. Priest 74021 Created by Independent Third Party: Yes **Evaluation Reports** FL17188_R5_AE_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Created by Independent Third Party: Yes
17188.2	MSA Quick-Felt Deck-Guard	Synthetic underlayment alternative to ASTM D 226 Type I and Type II for use in steep slope roofing
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** FL17188_R5_II_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes **Evaluation Reports** FL17188_R5_AE_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Created by Independent Third Party: Yes
17188.3	MSA Quick-Felt Ultra Defense	Synthetic underlayment alternative to ASTM D 226 Type I for use in steep slope roofing
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** FL17188_R5_II_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes **Evaluation Reports** FL17188_R5_AE_MSA14001.5 2020 FBC Eval Syn Underlayment final.pdf Created by Independent Third Party: Yes

Back Next

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CREEK
TECHNICAL SERVICES, LLC

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

EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Issued September 24, 2020

Manufacturer: MID-STATES ASPHALT AND CANT STRIP, INC.
1637 51st Street
Tuscaloosa, AL 35401
(800) 489-2391
http://www.midstatesasphalt.com

Manufacturing Plants: Nashik, India
Quigdao, China
Truro, Nova Scotia, Canada

Quality Assurance: UL LLC (QUA9625)

SCOPE

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

REFERENCES

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	RTX-002-02-01	ICC-ES AC 188	2012
PRI Construction Materials Technologies (TST5878)	MSA-038-02-01	ASTM D 4533	2015
PRI Construction Materials Technologies (TST5878)	MSA-050-02-01	ASTM D 226	2009
		ASTM D 4869	2016
		ASTM D 4533	2015
PRI Construction Materials Technologies (TST5878)	MSA-059-02-01	ASTM D 226	2009
		ASTM D 4869	2016
		ASTM D 1970	2015a
PRI Construction Materials Technologies (TST5878)	1085T0012	ASTM D 4533	2015
		ASTM D 5035	2011(2019)

PRODUCT DESCRIPTION

MSA Quik-Felt

MSA Quick-Felt is a woven polypropylene mechanically attached underlayment for use in steep slope roofing as an alternative to ASTM D 226, Type II with a with a weight of 24lbs per roll, 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.

MSA Quik-Felt Ultra-Defense

MSA Quick-Felt Ultra-Defense is a breathable, synthetic, mechanically attached underlayment for use in steep slope roofing as an alternative to ASTM D 226, Type I with a weight of 10lbs per roll, a 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.

MSA Quik-Felt Deck-Guard

MSA Quick-Felt Deck-Guard is a woven polypropylene mechanically attached underlayment for use in steep slope roofing as an alternative to ASTM D 226, Type II with a weight of 17lbs per roll, 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.

APPLICATION

Deck Type:	The roof deck shall be constructed of closely fitted plywood sheathing for new or existing construction. Plywood deck 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 Section 1507.1.1, Table 1507.1.1.1 and the 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.
Allowable roof coverings:	Permitted to be used as prescribed in FBC Table 1507.1.1.1 with mechanically fastened roof coverings.

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 in not within 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) All underlayments shall be installed with the roll length parallel to the eave, starting at the eave, and lapped in success courses installed up the deck in a manner that effectively sheds water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions.
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

FL #	FL21580-R2
Application Type	Revision
Code Version	2020
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	Florida Metal Products Inc.
Address/Phone/Email	6940 Stuart Ave Jacksonville, FL 32254 (904) 783-8400 clark@flamco.com
Authorized Signature	FLPA Services flpaserv@yahoo.com
Technical Representative	clark jones
Address/Phone/Email	p o box 6310 jacksonville, FL 32236 (904) 783-8400 clark@flamco.com
Quality Assurance Representative	clark jones
Address/Phone/Email	p o box 6310 jacksonville, FL 32236 (904) 783-8400 clark@flamco.com
Category	Roofing
Subcategory	Roofing Accessories that are an Integral Part of the Roofing System
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	James L. Bucker, P.E.@ CBUCK Engineering
Florida License	PE-31242
Quality Assurance Entity	Keystone Certifications, Inc.
Quality Assurance Contract Expiration Date	12/31/2024
Validated By	Steven M. Urich, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL21580_R2_COI_CertificateOfIndep.pdf
Referenced Standard and Year (of Standard)	
Equivalence of Product Standards Certified By	
Sections from the Code	1708.2

Product Approval Method	Method 2 Option B
Date Submitted	09/25/2020
Date Validated	09/27/2020
Date Pending FBC Approval	10/04/2020
Date Approved	12/16/2020

Summary of Products

FL #	Model, Number or Name	Description
21580.1	1 - FLAMCO "Off-Ridge Roof Vent"	Low profile, off-ridge roof vent for pitched roofs fabricated from 26 gauge, G-90 primed, galvanized steel
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +N/A/-46 **Other:** Refer to Evaluation Report for Limitations and Conditions of Use. Refer to manufacturer's installation instructions as a supplemental guide for attachment.		**Installation Instructions** FL21580_R2_II_1_OffRidgeRoofVent_EVALREPORT.pdf Verified By: James L. Buckner, P.E. @ CBUCK Engineering P.E. #31242 Created by Independent Third Party: Yes **Evaluation Reports** FL21580_R2_AE_1_OffRidgeRoofVent_EVALREPORT.pdf Created by Independent Third Party: Yes
21580.2	2 - FLAMCO "Gooseneck Roof Vent"	Gooseneck style roof vents for sloped shingle or tile roofs fabricated from 26 gauge, G-90 primed, galvanized steel
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** +N/A/-90 **Other:** Refer to Evaluation Report for Limitations and Conditions of Use. Refer to manufacturer's installation instructions as a supplemental guide for attachment.		**Installation Instructions** FL21580_R2_II_2_GooseneckRoofVent_EVALREPORT.pdf Verified By: James L. Buckner, P.E. @ CBUCK Engineering P.E. #31242 Created by Independent Third Party: Yes **Evaluation Reports** FL21580_R2_AE_2_GooseneckRoofVent_EVALREPORT.pdf Created by Independent Third Party: Yes
21580.3	3 - FLAMCO "RV 10 Ridge Vent"	Aluminum Ridge Vents for pitched roofs fabricated from 0.025" Aluminum
Limits of Use **Approved for use in HVHZ:** No **Approved for use outside HVHZ:** Yes **Impact Resistant:** No **Design Pressure:** N/A **Other:** Refer to Evaluation Report for Limitations and Conditions of Use. Refer to manufacturer's installation instructions as a supplemental guide for attachment.		**Installation Instructions** FL21580_R2_II_3_RV10_RidgeVent_EVALREPORT.pdf Verified By: James L. Buckner, P.E. @ CBUCK Engineering P.E. #31242 Created by Independent Third Party: Yes **Evaluation Reports** FL21580_R2_AE_3_RV10_RidgeVent_EVALREPORT.pdf Created by Independent Third Party: Yes

Back Next

CBUCK Engineering

Specialty Structural Engineering

CBUCK, Inc. Certificate of Authorization #8064

Evaluation Report

FLAMCO "RV10"

Ridge Vent

Manufacturer:

Florida Metal Products, Inc.

6940 Stuart Avenue

Jacksonville, FL 32254

for

Florida Product Approval

FL 21580.3 R2

Florida Building Code 7th Edition (2020)

Method: **2 - B**

Category: **Roofing**

Sub - Category: **Roofing Accessories that are an Integral Part of the Roofing System**

Product Name: "Ridge Vent"

Product Description: Roof Vent

Attached To: Wood Deck

Prepared by:

James L. Buckner, P.E., SECB

Florida Professional Engineer # 31242

Florida Evaluation ANE ID: 1916

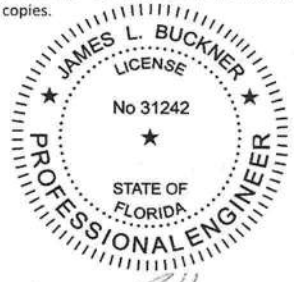
Project Manager: Diana Galloway

Report No. 20-244-RV10-ER

(Revises 17-185-RV10-ER, FL 21580.3 R1)

Date: 09 / 25 / 20

This item has been electronically signed and sealed by James L. Buckner, P.E., on this date using a Digital Signature. Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.



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Contents:

1.0 Manufacturer: **Florida Metal Products, Inc. dba FLAMCO**
6940 Stuart Avenue
Jacksonville, Florida 32254
(800) 634-8400
http://flamco.com

2.0 Manufacturing Plant: Jacksonville, Florida

3.0 Product:

3.1 **Product Name:** "RV10"
3.2 **Product Description:** Ridge Vent

4.0 Evaluation Scope:

4.1 **Compliance with the following**
Florida Building Code 7th Edition (2020)

4.2 **Evaluation Method:**
Florida Product Approval Rule 61G20-3.005 (2) (b)

4.3 **Evaluation Classification:**
Category: Roofing
Sub Category: Roofing Accessories that are an Integral part of the Roofing System

4.4 **Properties Evaluated**
Structural (Wind Resistance) Properties

4.5 **Limits of Evaluation:**
This product assembly evaluation is limited to compliance with section 4.1 to section 4.4 of this report.

5.0 Evaluated Uses:
FLAMCO "RV10" ridge vent is used as a roof ventilator.

6.0 Product Assembly Description:

6.1 **General:**
The FLAMCO "RV10" are ridge vents for pitched roofs fabricated from nominal 0.025" coated aluminum mechanically attached to Plywood Deck.

7.0 General Assembly as Evaluated:
Refer to section 15.0 of this report for product assembly components/materials & standards.

8.0 Support System:
(Design of support system is outside the scope of this evaluation.)
8.1 Type: Wood Deck
8.2 Description: 15/32" (min.) or greater plywood, or
Wood plank deck (based on minimum density/specific gravity of 0.42)

9.0 Slope:
Minimum slope shall be 2:12. (and in compliance with FBC Chapter 15 based on the type of roof covering, applicable code sections and in accordance with manufacturer's recommendations.)

10.0 Performance:

The following test protocols were performed to demonstrate compliance with the intent of the code:

10.1 **TAS-100(A)-95** - *Wind and Wind Driven Rain Resistance and/or Increased Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area.*

11.0 Code Compliance:

11.1 The product assembly described herein has demonstrated compliance with the Florida Building Code 7th Edition (2020) Section 1708.2.

12.0 Limitations and Conditions of Use:

12.1 Design of support system is outside the scope of this report. Support shall be structural framing members complying with the code and shall be designed by others.

12.2 Scope of "Limitations and Conditions of Use" for this evaluation:
This evaluation report for "State Approval" contains technical documentation, specifications and installation method(s) which include "Limitations and Conditions of Use" throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under "State Approval".

12.3 Option for application outside "Limitations and Conditions of Use"
Rule 61G20-3.005(1)(e) allows engineering analysis for "project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code". Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.

12.4 This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design.

12.5 This product has been evaluated to a maximum height of 33 feet.

12.6 Refer to applicable building code for ventilation requirements.

12.7 All metal components and fasteners shall be corrosion resistant in accordance with FBC.

12.8 Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.

12.9 This report does not evaluate the use of this product assembly as described in this report for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)

13.0 Quality Assurance:

The manufacturer has demonstrated compliance of products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc., (FBC Organization #QUA ID:1824).

14.0 System/Components

14.1 **"RV 10 Ridge Vent"**

14.1.1 Material:	Aluminum
14.1.2 Thickness:	0.025" (nominal, with coating)
14.1.3 Corrosion Resistance:	In compliance with FBC Section 1507.4.3: ASTM B209
14.1.4 Overall Product Dimensions (nominal):	
14.1.4.1 Length(s):	10 ft. (max.)
14.1.4.2 Width:	8-3/8 in. (± ¼" nominal)
14.1.4.3 Height:	2-1/4 in. (± ¼" nominal)

14.2 **Fastener:**

14.2.1 Base Fastener:	Attaches Roof Vent to Deck
14.2.1.1 Type:	Smooth or Ring Shank Roofing Nails
14.2.1.2 Size:	6d × 2" (Long)
14.2.1.3 Material:	Aluminum
14.2.1.4 Corrosion Resistance:	Per FBC Section 1506.5
14.2.1.5 Standard:	Per ASTM F 1667

14.3 **Roof Adhesive:**

14.3.1 Type:	Standard Heavy bodied Flashing Cement
14.3.2 Description:	Asbestos-free asphalt based roof cement
14.3.3 Application Size:	1/4" thick (min.)
14.3.4 Standard:	Per ASTM D 4586 Type I

15.0 Installation Method:

(Refer to installation method at the end of this evaluation report.)

Prepare deck opening by trimming any shingles or tiles & existing nails that may interfere with ridge vent installation. Apply roof cement to the underside, back and side flanges of the ridge vent. Cement should be a 1/4" thick and extend 2" onto roof underlayment. (Install cement in compliance with manufacturer's installation guidelines.) Position vent base flange beneath loosened shingles and align with deck opening. Attach the unit side flanges to deck with fasteners per Section 14.2 spaced 6" o.c. and 1-1/2"- 2" from each end. Apply Roofing Cement to exposed fastener heads. Minimum fastener penetration thru bottom of support, 3/16".

The FLAMCO "RV 10 Ridge Vent" shall be installed in compliance with the installation method listed in this report and applicable code sections of FBC 7th Edition (2020). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

16.0 Evaluation Reference Data:

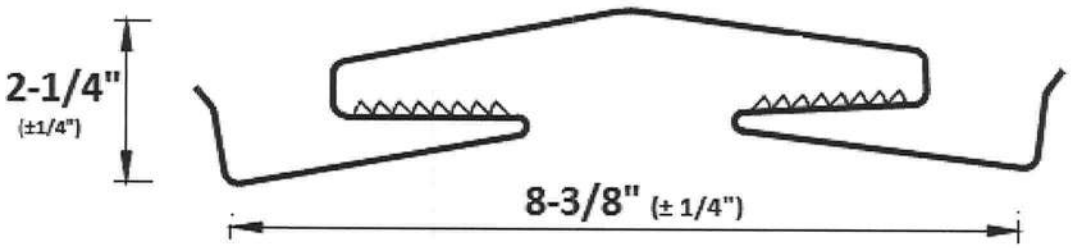
16.1 TAS 100 (A) Wind Driven Rain Test
By Fenestration Testing Laboratory, Inc. (FTL) (FBC Organization #TST ID: 1657)
Project #16-6647, Lab #9124, Dated: 11/09/16

16.2 Quality Assurance
By Keystone Certifications, Inc. (FBC Organization #: QUA 1824)
Licensee #440

16.3 Engineering Analysis
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

16.4 Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization # ANE 1916)

Florida Metal Products, Inc.
FLAMCO
"RV 10" Ridge Vent



"RV 10 Ridge Vent"
Profile View