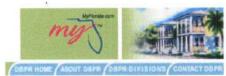
# **Business & Professional Regulation**



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Product Approval Menu > Product or Application Search > Application List > Application Detail

Application Type Code Version Application Status FL21350-R4

Revision 2020

Approved

Comments

Archived

Product Manufacturer Address/Phone/Email Atlas Roofing Corporation 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 Subcategory Roofing 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 Zachary R. Priest

**Evaluation Report** 

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

 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 Approved for use of Impact Resistant: N Design Pressure: N/ Other: See evaluation	u <b>tside HVHZ:</b> Yes /A	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





Contact Us:: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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**Product Approval Accepts:** 









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

Issued January 10, 2021

### **EVALUATION REPORT**

FLORIDA BUILDING CODE, 7TH EDITION (2020)

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	<u>Year</u> 2012
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
Interior recard derived and the contract of		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
Try conduction Materials Teamoregies (191917)		ASTM D 5035	2011(2019)
PRI Construction Materials Technologies (TST5878)	117T0025	<b>ASTM D 4533</b>	2015
Tra Conduction Materials Technologies (1010010)	100	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 48inch 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 48inch wide x 250-ft long format and weighs approximately 30 lbs.

Page 1 of 3



### 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, Vult, 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

This evaluation report is not for use in the HVHZ.

Fire Classification is not within the scope of this evaluation.

Wind uplift resistance is not within the scope of this evaluation.

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.

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.

Roof slope limitations shall be in accordance with FBC requirements.

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.

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.

10:45:10

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

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** 



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

Issued January 10, 2021

### **EVALUATION REPORT**

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Quality Assurance:

Intertek Testing Services NA Inc. (QUA1673)

SCOPE

Category:

Roofing

Subcategory:

Underlayments

**Code Sections:** 

1507.1.1

Properties:

Physical properties

### REFERENCES

Entity Intertek Testing Services NA, Inc. (EVL11327) Intertek Testing Services NA, Inc. (EVL11327) Intertek Testing Services NA Ltd. (TST1509)	Report No. CCRR-1038 CCRR-1038 141128020SHJ-BP-1	<u>Standard</u> AC 188 ASTM D 226 AC 188 ASTM D 4869	<u>Year</u> 2012 2009 2012 2016
PRI Construction Materials Technologies (TST5878) PRI Construction Materials Technologies (TST5878)	ATL-238-020-1 117T0023 117T0025	TAS 117(B) ASTM D 4533 ASTM D 5035 ASTM D 4533	2020 2015 2011(2019) 2015
PRI Construction Materials Technologies (TST5878)	11/10025	ASTM D 4035	2011(2019)

### PRODUCT DESCRIPTION

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Summit 180

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

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### 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.

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.

Roof slope limitations shall be in accordance with FBC requirements.

7) Contact the manufacturer when installing at temperatures below the minimum application temperature.

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.

Priest, P.E. eferenced documents of the service of

2021.01.10

10:45:10

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

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END OF REPORT

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# Business & Professional Regulation





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Product Approval Menu > Product or Application Search > Application List > Application Detail

POSTES OF THE

FL # FL2533-R26
Application Type Revision
Code Version 2020
Application Status Approved

Comments Archived

Product Manufacturer

Address/Phone/Email

CertainTeed, LLC (Roofing)

20 Moores Road
Malvern, PA 19355

(610) 893-5400 mark.d.harner@saint-gobain.com

Authorized Signature Mark Harner

mark.d.harner@saint-gobain.com

Technical Representative Address/Phone/Email

Quality Assurance Representative Address/Phone/Email

Category Roofing

Subcategory Modified Bitumen Roof 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 Robert Nieminen

**Evaluation Report** 

Florida License PE-59166

Quality Assurance Entity UL LLC

Quality Assurance Contract Expiration Date 09/15/2023

Validated By John W. Knezevich, PE

Validation Checklist - Hardcopy Received

Certificate of Independence <u>FL2533\_R26\_COI\_2021\_01\_COI\_NIEMINEN.pdf</u>

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM D1970	2015
	ASTM D2178	2015
	ASTM D4601	2012
	ASTM D6163	2015
	ASTM D6164	2011
	ASTM D6222	2011
	ASTM D6509	2015
	ASTM G155	2013
	FM 4470	2016
	FM 4474	2011

Equivalence of Product Standards

Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 07/23/2021 Date Validated 08/03/2021 Date Pending FBC Approval 08/07/2021 10/12/2021 Date Approved

### **Summary of Products**

FL#	Model, Number or Name	Description				
2533.1	Flintlastic Modified Bitumen Roof Systems for use in FBC non-HVHZ jurisdictions	Modified Bitumen Roof Systems				
Impact Resistar Design Pressure Other: 1.) Refer Use. 2.) The design application relates	se outside HVHZ: Yes nt: N/A	Installation Instructions FL2533 R26 II 2021 07 20 FINAL A1 ER CERTAINTEED MODBIT FL2533- R26.pdf Verified By: Robert Nieminen, PE PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL2533 R26 AE 2021 07 20 FINAL ER CERTAINTEED MODBIT FL2533- R26.pdf Created by Independent Third Party: Yes				





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**Product Approval Accepts:** 









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New or Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off)  Structural concrete  New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  Structural concrete  New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  Reroof (Tear-Off)  New or Reroof (Tear-Off)  Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off)	75	Non-Insulated. Bonded Roof Cover	п	Pacavar	17:	1,
New or Reroof (Tear-Off)	70-75	Bonded Insulation, Bonded Roof Cover	A-1	Recover	Various	7 <sub>A</sub>
New or Reroof [Tear-Off]   A-1   Bonded Insulation, Bonded Roof Cover	69	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	Reroof (Tear-Off)	Existing gypsum	60
New or Reroof (Tear-Off)   A-1   Bonded Insulation, Bonded Roof Cover	69	Mech. Attached Insulation, Bonded Roof Cover	C-1	Reroof (Tear-Off)	Existing gypsum	60
New or Reroof (Tear-Off)	68	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	A-2	Reroof (Tear-Off)	Existing gypsum	6в
New or Reroof [Tear-Off]	65-67	Bonded Insulation, Bonded Roof Cover	A-1	Reroof (Tear-Off)	Existing gypsum	6A
New or Reroof (Tear-Off)   A-1   Bonded Insulation, Bonded Roof Cover	64	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	New, Reroof (Tear-Off) or Recover	Cementitious wood fiber	50
New or Reroof (Tear-Off)  New, Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off)  New or Reroof	64	Mech. Attached Insulation, Bonded Roof Cover	C-1	Reroof (Tear-Off) or Recover	Cementitious wood fiber	5c
New or Reroof (Tear-Off) New or Reroof (Tear-Off) New or Reroof (Tear-Off) or Recover New, Reroof (Tear-Off) New or R	63	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	A-2	New or Reroof (Tear-Off) or Recover	Cementitious wood fiber	5 <sub>B</sub>
New or Reroof (Tear-Off)	61-62	Bonded Insulation, Bonded Roof Cover	A-1	New or Reroof (Tear-Off)	Cementitious wood fiber	5A
New or Reroof (Tear-Off) New, Reroof (Tear-Off) or Recover New or Reroof (Tear-Off) or Recover New or Reroof (Tear-Off) or Recover New or Reroof (Tear-Off) N	60		п	Reroof (Tear-Off)	LWIC / steel	46
New or Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  Structural concrete  New, Reroof (Tear-Off) or Recover  Structural concrete  New, Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off)	60	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	Reroof (Tear-Off) or Recover	LWIC / steel	4F
New or Reroof (Tear-Off)         A-1         Bonded Insulation, Bonded Roof Cover           New or Reroof (Tear-Off)         A-2         Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Mon-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           Virual concrete         New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           Value         New, Reroof (Tear-Off)         E-2         Mon-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           Value         New, Reroof (Tear-Off)         E-2         Mech. Attached Base Insulation, Bonded Roof Cover           Value <td>55-59</td> <td>Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover</td> <td>E-2</td> <td>New or Reroof (Tear-Off)</td> <td>LWIC / steel or struct. conc.</td> <td>4E</td>	55-59	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	New or Reroof (Tear-Off)	LWIC / steel or struct. conc.	4E
New or Reroof (Tear-Off)         A-1         Bonded Insulation, Bonded Roof Cover           New or Reroof (Tear-Off)         A-2         Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         D-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off)         Recover         Mech. Attached Base Sheet, Bonded Roof Cover </td <td>52-54</td> <td>Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover</td> <td>A-2</td> <td>New or Reroof (Tear-Off)</td> <td>LWIC / steel</td> <td>4D</td>	52-54	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	A-2	New or Reroof (Tear-Off)	LWIC / steel	4D
New or Reroof (Tear-Off)         A-1         Bonded Insulation, Bonded Roof Cover           New or Reroof (Tear-Off)         A-2         Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         D-2         Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-1         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) o	50-51	Bonded Vapor Barrier, Bonded Insulation, Bonded Roof Cover	A-1	New, Reroof (Tear-Off)	LWIC / structural concrete	4c
New or Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  New or Reroof (Tear-Off) or Recover  New, Reroof (Tear-Off	43-49	Bonded Insulation, Bonded Roof Cover	A-1	New or Reroof (Tear-Off)	LWIC / structural concrete	4в
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         Y Structural concrete       New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Roof Cover         Y Structural concrete       New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Roof Cover         Y Structural concrete       New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Roof Cover         Y Structural concrete       New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Roof Cover         Y Structural concrete       New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Sheet, Bonded Roof Cover         Y S	41-42	Bonded Insulation, Bonded Roof Cover	A-1	New or Reroof (Tear-Off)	LWIC / steel	4A
New or Reroof (Tear-Off)         A-1         Bonded Insulation, Bonded Roof Cover           New or Reroof (Tear-Off)         A-2         Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         D-2         Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off)         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           Structural concrete         New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           Structural concrete         New, Reroof (Tear-Off) or Recover         E-1         Mech. Attached Base Insulation, Bonded Roof Cover           Structural concrete         New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof	40	Non-Insulated, Bonded Roof Cover	F	New or Reroof (Tear-Off)	Structural concrete	3c
New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  Structural concrete  New, Reroof (Tear-Off) or Recover  New, Reroof (	40	Bonded Temp Roof/Vapor Barrier, Bonded Insulation, Bonded Roof Cover	A-3	New or Reroof (Tear-Off)	Structural concrete	38
New or Reroof (Tear-Off)         A-1         Bonded Insulation, Bonded Roof Cover           New or Reroof (Tear-Off)         A-2         Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         C-1         Mech. Attached Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         D-2         Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover           New or Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         E-2         Non-Insulated, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Base Insulation, Bonded Roof Cover           New, Reroof (Tear-Off) or Recover         B-1         Mech. Attached Insulation, Bonded Roof Cover	30-39	Bonded Insulation, Bonded Roof Cover	A-1	New or Reroof (Tear-Off)	Structural concrete	3A
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         or Structural concrete       New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover	27-29	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	D-2	New, Reroof (Tear-Off) or Recover	Steel or Structural concrete	2c
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover         New or Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Bonded Roof Cover	22-26	Mech. Attached Insulation, Bonded Roof Cover	C-1	New, Reroof (Tear-Off) or Recover	Steel or Structural concrete	2в
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New or Reroof (Tear-Off)       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	19-22	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	B-1	New, Reroof (Tear-Off) or Recover	Steel or Structural concrete	2A
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	18	Non-Insulated, Bonded Roof Cover	F	New or Reroof (Tear-Off)	Wood	1н
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover         New, Reroof (Tear-Off)       E-2       Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	16-18	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	New, Reroof (Tear-Off) or Recover	Wood	16
New or Reroof (Tear-Off)       A-1       Bonded Insulation, Bonded Roof Cover         New or Reroof (Tear-Off)       A-2       Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       B-1       Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       C-1       Mech. Attached Insulation, Bonded Roof Cover         New, Reroof (Tear-Off) or Recover       D-2       Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	13-16	Non-Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	E-2	New, Reroof (Tear-Off)	Wood	1r
New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New, Reroof (Tear-Off) or Recover  C-1  Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	11-13	Insulated, Mech. Attached Base Sheet, Bonded Roof Cover	D-2	New, Reroof (Tear-Off) or Recover	Wood	1E
New or Reroof (Tear-Off)  New or Reroof (Tear-Off)  New, Reroof (Tear-Off)  New, Reroof (Tear-Off) A-2 Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover  New, Reroof (Tear-Off) or Recover  B-1 Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	9-10	Mech. Attached Insulation, Bonded Roof Cover	C-1	New, Reroof (Tear-Off) or Recover	Wood	10
New or Reroof (Tear-Off)  A-1 Bonded Insulation, Bonded Roof Cover  New or Reroof (Tear-Off)  A-2 Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	8	Mech. Attached Base Insulation, Bonded Top Insulation, Bonded Roof Cover	B-1	New, Reroof (Tear-Off) or Recover	Wood	<b>1</b> c
New or Reroof (Tear-Off)  A-1 Bonded Insulation, Bonded Roof Cover	6-7	Mech. Attached Anchor Sheet, Bonded Insulation, Bonded Roof Cover	A-2	New or Reroof (Tear-Off)	Wood	18
	5-6	Bonded Insulation, Bonded Roof Cover	A-1	New or Reroof (Tear-Off)	Wood	1A
	PAGE	DESCRIPTION	TYPE	APPLICATION	DECK	TABLE



# The following notes apply to the systems outlined herein

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- -The roof system evaluation herein pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 2. Unless otherwise noted, fasteners and stress plates for insulation attachment shall be as follows. Fasteners shall be of sufficient length for the following engagements:
- with OMG 3 in. Galvalume Steel Plate or Trufast #14 HD with Trufast 3" Metal Insulation Plates. Minimum ¾-inch plywood penetration or minimum 1-inch wood plank embedment. FlintFast #14 Fastener with FlintFast 3" Insulation Plates, Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3, OMG #14 Roofgrip with Flat Bottom Plate (Accutrac), OMG HD
- Steel Deck: 34-inch steel penetration and engage the top flute of the steel deck. or Flat Bottom Plate (Accutrac), OMG #12 Standard or HD with OMG 3 in. Galvalume Steel Plate or Trufast #12 DP or Trufast #14 HD with Trufast 3" Metal Insulation Plates or. Minimum FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates, Dekfast DF-#12-PH3 or DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3, OMG #12 or #14 Roofgrip with Recessed
- Structural Concrete: FlintFast #14 Fastener with FlintFast 3" Insulation Plates, Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3, OMG #14 Roofgrip with Recessed or Flat Bottom Plate (Accutrac), OMG HD or CD-10 with OMG 3 in. Galvalume Steel Plate or Trufast #14 HD or Trufast Fluted Concrete Nail with Trufast 3" Metal Insulation Plates. Minimum 1-inch embedment. Fasteners installed with a pilot hole in accordance with the fastener manufacturer's published installation instructions
- S. Unless otherwise noted, insulation may be any one layer or combination of FBC Approved (Local or Statewide) board(s) that meet FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover.
- 4 venting or moisture levels within the LWIC and the potential effect on overlying components. Minimum 200 psi, minimum 2-inch thick FBC Approved lightweight insulating concrete may be substituted for rigid insulation board for System Types B, C or D, whereby fasteners are installed through the lightweight insulating concrete to engage the structural deck. The structural deck shall be of equal or greater type, thickness and strength to the steel and structural concrete deck listings. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction. This is a wind uplift resistance allowance and does not purport to address non-wind-uplift-related issues, such as deck
- Ģ Preliminary insulation attachment for System Type D: Unless otherwise noted, refer to Section 2.2.10.1.3 of FM Loss Prevention Data Sheet 1-29 (February 2020)
- 6 Unless otherwise noted, insulation adhesive application rates are as follows. Ribbon or bead width is at the time of application, the ribbons/beads shall expand as noted in the manufacturer's published instructions.
- Continuous 0.25 to 0.5-inch wide ribbons, 12-inch o.c. Note: HB Fuller "Millennium One Step Foamable Adhesive" may be used wherever FlintFast QS is listed
- "FlintFast LV Insulation Adhesive" (FlintFast LV) Continuous 0.5 to 0.75-inch wide ribbons, 12-inch o.c. Note: HB Fuller "Millennium PG-1 Pump Grade Adhesive" may be used wherever FlintFast LV is listed.
- Dupont "INSTA STIK Quik Set Commercial Roofing Adhesive" (Insta Stik QS): Continuous 0.75 to 1 inch wide ribbons, 12-inch o.c.
- Continuous 3-inch ribbons, 12-inch o.c.
- Continuous 2.5 to 3-inch wide ribbons, 12-inch o.c.
- Continuous 0.75-inch wide ribbons, 12-inch o.c. (PaceCart, SpotShot or Canister)
- Note: The maximum edge distance from the adhesive ribbon to the edge of the insulation board shall be not less than one-half the specified ribbons spacing. Note: When multiple layers(s) of insulation and/or coverboard are installed in ribbon-applied adhesive, boards shall be staggered from layer-to-layer

OMG OlyBond 500 Adhesive Fastener (OB500):

ICP Adhesives and Sealants "Polyset Board-Max":

"FlintFast QS Insulation Adhesive" (FlintFast QS):

Design Pressure (MDP) limitations. In no case shall these values be used to 'increase' the MDP listings in the tables, rather if MDP listing below meets or exceeds that listed for a particular system in the tables, then then thinner board listed below may be used as a drop-in for the equivalent thicker material listed in the table:

| MDP -1575 psf (Min 1 0-inch) Unless otherwise noted, all insulations are flat-stock or taper board of the minimum thickness noted. Tapered polyisocyanurate at the following thickness limitations may be substituted with the following Maximum

7.

*	HINTHAST US:	MUR	-15/.5 psi	(IVIII. 1.0-IIICII)
٧	FlintFast LV:	MDP	-157.5 psf	(Min. 1.0-inch)
V	Insta Stik QS:	MDP	-120.0 psf	(Min. 1.0-inch)
٧	Polyset CR-20:	MDP	-117.5 psf	(Min. 1.0-inch)
٧	OB500:	MDP	-45.0 psf	(Min. 0.5-inch Multi-Max FA3)
V	OB500:	MDP	-187.5 psf	(Min. 0.5-inch ISO 95+ GL)
٧	OB500:	MDP	-315.0 psf	(Min. 0.5-inch ENRGY 3)
٧	OB500:	MDP	-487.5 psf	(Min. 0.5-inch ACFoam II)

For adhered roof insulation and board-size: Unless otherwise noted, refer to Section 2.2.10.6.2 of FM Loss Prevention Data Sheet 1-29 (February 2020)



- 9. with FBC Chapter 16. Elevated pressure zones shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM For mechanically attached components or partially-bonded insulation, the maximum design pressure for the selected assembly shall meet or exceed at least the Zone 1 PRIME design pressure determined in accordance Loss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Assemblies marked with an asterisk\* carry the limitations set forth in Section 2.2.10.1 of FM Losss Prevention Data Sheet 1-29, Roofing Application Standard RAS 117 and Roofing Application Standard RAS 137. Prevention Data Sheet 1-29 (February 2020) for Zone 2/3 enhancements.
- 10. For assemblies with all components fully bonded, the maximum design pressure for the selected assembly shall meet or exceed critical design pressure determined in accordance with FBC Chapter 16. No rational analysis is permitted for these systems.
- 11. For mechanically attached components over existing decks, fasteners shall be tested in the existing deck for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with ANSI/SPRI FX-1 or Testing Application Standard TAS 105.
- 12. over existing substrates in a recover installation, the existing roof system shall be capable of resisting project design pressures on its own merit to the satisfaction of the Authority Having Jurisdiction, as documented For bonded insulation or membrane over existing substrates in a re-roof (tear off) or recover installation, the existing deck or existing roof surface shall be examined for compatibility with the adhesive to be installed. through field uplift testing. Field uplift testing shall be in accordance with ASTM E907, FM Loss Prevention Data Sheet 1-52 or Testing Application Standard TAS 124. If any surface conditions exist that bring system performance into question, field uplift testing in accordance shall be conducted on mock-ups of the proposed new roof assembly. For bonded insulation or membranea
- 13. Refer to FBC 1511 for requirements and limitations regarding recover installations. For Structural Concrete Deck or Recover Applications using System Type D, the insulation is optional. Alternatively, an FBC Approved meeting FBC 1505 and, for foam plastic, FBC Chapter 26, when installed with the roof cover in Recover applications. insulation board or coverboard may be used as a separation layer. Board products shall be preliminarily attached prior to roof cover installation (Note 5 herein). The separator component shall be documented associated by the content of the conten
- 14. Lightweight insulating concrete (LWIC) shall be cast in accordance with FBC Section 1917 to the satisfaction of the Authority Having Jurisdiction. For systems where specific LWIC is referenced, refer to current LWIC using only foaming agent (ASTM C896), water and Portland cement (ASTM C150), with no proprietary additives, in accordance with procedures adopted by Miami-Dade BCCO (FBC CER1592). Use of these listings in Product Approval for specific deck construction and limitations. Unless otherwise noted, for systems where specific LWIC is not referenced, the minimum design mix shall be 300 psi. In all cases, the minimum top-coat new construction or re-roof (tear-off) applications is at the discretion of the Designer or Record and Authority Having Jurisdiction. thickness is 2-inches. For LWIC over structural concrete, reference is made to FBC Section 1917.4.1, Point 1. For "pre-existent" LWIC references, listings were established through testing over lightweight concrete cast
- Unless otherwise noted, refer to the following references for bonded applications.

		Membrane / Adhesive Combinations	
REFERENCE	LAYER	MATERIAL	APPLICATION
	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Note:	Base ply cures overnight prior to application of the ply or cap ply.	Variable 04 Cald Descript Madified Bitumon Adhesive Brush
SBS-CA1	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	Grade at 1 gal/square
	Cap Ply:	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic GMS, Flintlastic GMS CoolStar	
BP-CA2	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	
	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
CBC CA3	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	Henry #903 Adhesive at 1.5 gal/square.
CO	Cap Ply:	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar	
вр-саз	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	
	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	UR E. Illor "Millonnium Hurricano Eorgo Mambrana Adhesive"
CBC-CA3	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	beads spaced 6-inch o.c.
(7)	Cap Ply:	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic	Communicación Actinisates (an indespina dispana)
	cap riy.	Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar	



		MEMBRANE / ADHESIVE COMBINATIONS	
REFERENCE	LAYER	MATERIAL	APPLICATION
	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
	Note:	Base ply cures overnight prior to application of the ply or cap ply.	Title Daniel Description Description Booking House Modified
SBS-CA4	Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	Bitumen Adhesive at 1 to 1.5 gal/square.
	Cap Ply:	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar	
3	Base Ply:	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20	hot arabalt at 30 M lbr/reman
br-AA	Ply:	One or more Flintglas Ply 4, Flintglas Premium Ply 6	not aspirate at 20-40 lbs/square
	Base Ply:	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	
CBC_AA	Ply:	One or more Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base	hot senhalt at 20-40 lhe/equare
200-674	Cap Ply:	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar	Incredition to to to holy advance
	Base Ply:	Flintlastic Ultra Poly SMS Base Sheet, Flintlastic Base 20 T	
SBS-TA	Ply:	One or more Flintlastic Ultra Poly SMS Base Sheet, Flintlastic Base 20 T	torch-applied
	Cap Ply:	Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar	
	Base Ply:	One or more Flintlastic APP Base T, Flintlastic STA, Flintlastic STA Plus	
APP-TA	Cap Ply:	Flintlastic STA, Flintlastic STA Plus, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR, Flintlastic GTA-FR CoolStar	torch-applied
SBS-SA-H	Base Ply:	Black Diamond Base Sheet, Flintlastic Ultra Glass SA	self-adhering (activated by overlying membrane)
	Base Ply:	Flintlastic SA PlyBase, Flintlastic SA Mid Ply	
SBS-SA	Ply:	Flintlastic SA PlyBase, Flintlastic SA Mid Ply	self-adhering
3	Cap Ply:	Flintlastic SA Cap, Flintlastic SA Cap FR CoolStar, Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar	

16. Vapor barrier options for use over structural concrete deck followed by adhesive-applied insulation carry the following Maximum Design Pressure (MDP) limitations. The lesser of the MDP listings below vs. those in Table 3A applies:

NOITAO		VAPOR BARRIER			MDP
*	PRIMER	ТҮРЕ	ATTACH	INSULATION ADHESIVE	(PSF)
VB-1.	FlintPrime QD, Karnak #108 or ASTM D41	Flintlastic SA PlyBase	Self-adhering	OB500, 12-inch o.c.	-82.5
VB-2.	None	All Weather/Empire Base Sheet, 3-inch wide side laps and 6-inch wide end laps are sealed with HB Fuller "HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", max. 6-inch o.c.	FlintFast QS or FlintFast LV, 12-inch o.c.	-82.5
VB-3.	None	Flintlastic Ultra Poly SMS Base Sheet, 3-inch wide side laps and 6-inch wide end laps are hot-air-welded, torch-welded or sealed with HB Fuller "HB Fuller "Millennium Hurricane Force Lap and Flashing Adhesive"	HB Fuller "Millennium Hurricane Force Membrane Adhesive HS", max. 6-inch o.c.	FlintFast QS or FlintFast LV, 12-inch o.c.	-82.5
VB-4.	FlintPrime QD, Karnak #108 or ASTM D41 primer	Black Diamond Base Sheet, Flintlastic Ultra Glass SA or Flintlastic SA Cap	Self-adhering	FlintFast QS or FlintFast LV, 12-inch o.c.	-97.5



OPTION		VAPOR BARRIER		TOTAL PROPERTY.	MDP
*	PRIMER	Түрв	ATTACH	INSOLATION ADRESIVE	(PSF)
VB-5.	FlintPrime QD, Karnak #108 or ASTM D41 primer	Black Diamond Base Sheet, Flintlastic Ultra Glass SA or Flintlastic SA Cap	Self-adhering	FlintFast QS or FlintFast LV, 6-inch o.c.	-315.0
VB-6.	ASTM D41 or Karnak #108 Asphalt Primer	Flintlastic GTA	Torch-applied	FlintFast QS or FlintFast LV, 12-inch o.c.	-420.0
VB-7.	FlintPrime QD, Karnak #108 or ASTM D41 primer	Flintlastic Base 20 T or Flintlastic FR Cap 30 T	Torch-applied	FlintFast QS or FlintFast LV, 12-inch o.c.	-495.0

17. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

Min. 15 W-5 rated C	CONVENTIONAL SYSTEMS	Min. 15/32-ir rated CDX ph W-4 24-inch span blocked 48-ir	Min. 15/32-i W-3 rated CDX ph 24-inch span	HYBRID SYSTEMS:	Win. 15/32-ir rated CDX ph 24-inch span blocked 48-ir	Min. 15/32-i W-1 rated CDX ph 24-inch span	SELF-ADHERING SYSTEMS:	No. (		
Min. 15/32-inch APA rated CDX plywood, 24-inch span	TEMS:	Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	Min. 15/32-inch APA rated CDX plywood, 24-inch span		Min. 15/32-inch APA rated CDX plywood, 24-inch span, blocked 48-inch o.c.	Min. 15/32-inch APA rated CDX plywood, 24-inch span	TEMS:	(Note 1)	Perk	
Min. 1.5-inch FlintBoard ISO, ACFoam II, FlintBoard H ISO, H-Shield		Min. 1.5-inch FlintBoard ISO, ACFoam II, FlintBoard H ISO, H-Shield	Min. 1.5-inch FlintBoard ISO, ACFoam II, FlintBoard H ISO, H-Shield		Min. 1.5-inch FlintBoard ISO, ACFoam II, FlintBoard H ISO, H-Shield	Min. 1.5-inch FlintBoard ISO, ACFoam II, FlintBoard H ISO, H-Shield		Туре	Base Insulation	
FlintFast QS or FlintFast LV		FlintFast QS or FlintFast LV, 6- inch o.c.	FlintFast QS or FlintFast LV		FlintFast QS or FlintFast LV, 6- inch o.c.	FlintFast QS or FlintFast LV		Attach (Notes 6,7,8)		TABLE 1a: Systen
Optional additional layers of base insulation, followed by min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiher Roof Board		(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.		(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.	(Optional) Additional layer(s) of base insulation and/or min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board.		Туре	Top Insulation	TABLE 1A: WOOD DECKS – NEW CONSTRUCTION OF REROOF (TEAR-OFF) SYSTEM TYPE A-1: BONDED INSULATION, BONDED ROOF COVER
FlintFast QS or FlintFast LV		FlintFast QS or FlintFast LV, 6- inch o.c.	FlintFast QS or FlintFast LV		FlintFast QS or FlintFast LV, 6- inch o.c.	FlintFast QS or FlintFast LV		Attach (Notes 6,7,8)		OR REROOF (TEA) IDED ROOF COV
None		None	None		FlintPrime QD, Karnak #108 or ASTM D41 primer	FlintPrime QD, Karnak #108 or ASTM D41 primer		Primer		R-Off)
BP-AA, SBS- AA, SBS-TA or APP-TA		SBS-SA-H	SBS-SA-H		SBS-SA	SBS-SA		Base Ply		
(Optional) BP- AA, SBS-AA, SBS- TA or APP-TA		(Optional) BP- AA, SBS-AA, SBS- TA or APP-TA	(Optional) BP- AA, SBS-AA, SBS- TA or APP-TA		(Optional) SBS- SA	(Optional) SBS- SA		Ply	Roof Cover (Note 15)	
SBS-AA, SBS-TA or APP-TA		SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS-TA or APP-TA		SBS-SA	SBS-SA		Cap Ply		
-60.0		-97.5	-60.0		-97.5	-60.0		(psf)	SOP .	



		TABLE	TABLE 1F; WOOD DECKS – NEW CONSTRUCTION OR REROC	TABLE 1F; WOOD DECKS—NEW CONSTRUCTION OR REROOF (TEAR-OFF)	CFIAN		4 4 40 40 40	
System	Deck		Base Sheet			Roof Cover (Note 15)	(Note 15)	MDP
No.	(Note 1)	Base	Fasteners	Attach	Primer	Base Ply	Cap Ply	(psf)
W-61	Min. 19/32-inch plywood, 24-inch span	Flintlastic SA NailBase	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at min. 2-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) SBS-SA	SBS-SA	-105.0
HYBRID SYSTEMS:	TEMS:							
W-62	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-45.0*
W-63	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-52.5
W-64	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-52.5
W-65	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-60.0
W-66	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-82.5
W-67	Min. 19/32-inch plywood, 24-inch span	Glashase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	SBS-SA-H	SBS-AA, SBS- TA or APP-TA	-105.0
CONVENTIO	CONVENTIONAL SYSTEMS:							
W-68	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	9-inch o.c. at 4-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	BP-AA, SBS- AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-45.0*
W-69	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP- AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-45.0*
W-70	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	9-Inch o.c. at 2-inch lap and 18-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	АРР-ТА	-45.0*

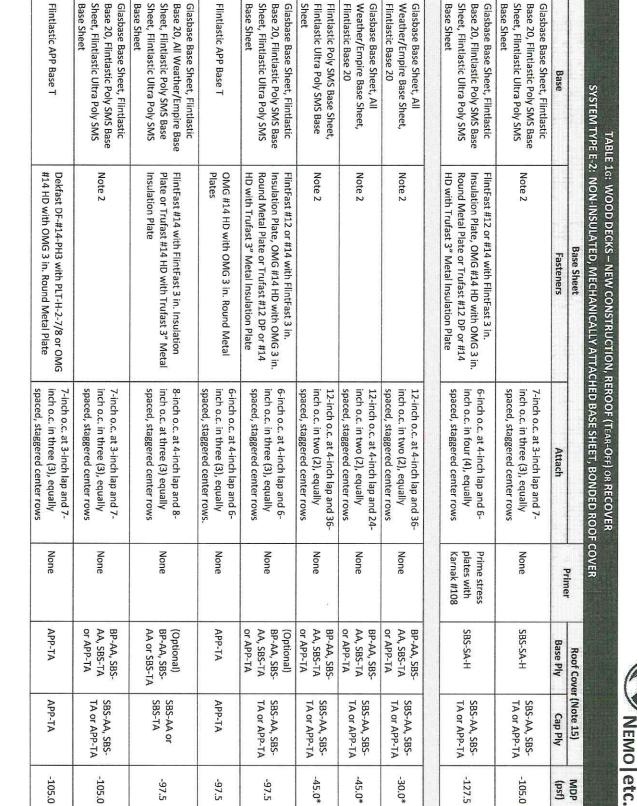


	7	TABL SYSTEM TYPE E-2: N	TABLE 1F; WOOD DECKS – NEW CONSTRUCTION OR RERC SYSTEM TYPE E-2; NON-INSULATED, MECHANICALLY ATTACHED BASE S	CTION OR REROOF (TEAR-OFF)  TACHED BASE SHEET, BONDED ROOF COVER	OVER			
System	Deck		Base Sheet		Primer	Roof Cover (Note 15)	(Note 15)	MDP
No.	(Note 1)	Base	Fasteners	Attach		Base Ply	Cap Ply	(psf)
W-71	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Min. 1-inch long, 12 ga. Simplex Metal Cap Nails	6-inch o.c. at 3-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	(Optional) BP- AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-52.5
W-72	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS- AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-52.5
W-73	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP- AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-52.5
W-74	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	9-inch o.c. at 2-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-52.5
W-75	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	8-inch o.c. at 4-inch lap and 8-inch o.c. in three (3), equally spaced, staggered center rows	None	BP-AA, SBS- AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-60.0
W-76	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120-inch shank diameter, annular ring shank nails.	6-inch o.c. at 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows	None	(Optional) BP- AA, SBS-AA or SBS-TA	SBS-AA or SBS-TA	-67.5
W-77	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	6-inch o.c. at 4-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	None	BP-AA, SBS- AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-82.5
W-78	Min. 15/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) BP- AA, SBS-AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-90.0
W-79	Min. 15/32-inch plywood, 24-inch span	Flintlastic APP Base T	Simplex MAXX Cap	6-inch o.c. at 2-inch lap and 6-inch o.c. in two (2), equally spaced, staggered center rows	None	(Optional) APP-TA	APP-TA	-90.0
W-80	Min. 19/32-inch plywood, 24-inch span	Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet	32 ga., 1-5/8-inch dia. tin caps with 11 ga. annular ring shank nails	4-inch o.c. at 3-inch lap and 4-inch o.c. in four (4), equally spaced, staggered center rows	None	BP-AA, SBS- AA, SBS-TA or APP-TA	SBS-AA, SBS- TA or APP-TA	-105.0



### W-82 W-81 System No. plywood, 24-inch span plywood, 24-inch span Min. 15/32-inch Min. 15/32-inch (Note 1) Deck Flintlastic APP Base T Glasbase Base Sheet, Flintlastic Base 20, All Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet Base SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER TABLE 1F: WOOD DECKS - NEW CONSTRUCTION OR REPOOF (TEAR-OFF) Simplex MAXX Cap Simplex MAXX Cap Fasteners **Base Sheet** 6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered 6-inch o.c. at 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows center rows Attach None None Primer (Optional) BP-AA, SBS-AA, SBS-TA or APP-TA (Optional) APP-TA Base Ply Roof Cover (Note 15) APP-TA TA or APP-TA SBS-AA, SBS-Cap Ply -105.0 -105.0 (psf)

W-87	HYBRID SYSTEMS	W-86	W-85	W-84		W-83	SELF-ADHE	No.	System	
Min. 15/32-inch plywood, 24-inch span	STEMS:	Min. 15/32-inch plywood, 24-inch span	Min. 15/32-inch plywood, 24-inch span	Min. 19/32-inch plywood, 24-inch span	Note:	APA rated, min. 7/16 CAT, 0.418 in., Exposure 1, OSB, 24-inch span	SELF-ADHERING SYSTEMS:	(Note 1)	Deck	
Glasbase Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet		Flintlastic SA NailBase	Flintlastic SA NailBase	Flintlastic SA NailBase	*For re-roof (tear-off) or recover ap be utilized to produce minimum with	Flintlastic SA NailBase		Base		TABLI SYSTEM TYPE E
FlintFast #12 or #14 with FlintFast 3 in. Insulation Plate, OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate		FlintFast #12 or #14 with FlintFast 3 in. Insulation Plate, OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	FlintFast #12 or #14 with FlintFast 3 in. Insulation Plate, OMG #14 HD with OMG 3 in. Round Metal Plate or Trufast #12 DP or #14 HD with Trufast 3" Metal Insulation Plate	Note 2	*For re-roof (teor-off) or recover applications, field withdrawal resistance testing (Note 11) shall yield minimum 109 lbf. Additional Versa-Fast Fasteners within each Ver be utilized to produce minimum withdrawal resistance. For recover installations, screws shall be of sufficient length for minimum 1" penetration through OSB sheathing.	Trufast Versa Fasteners & Plates, two (2) screws per plate at 180° from each other*		Fasteners	Base Sheet	TABLE 16: WOOD DECKS – NEW CONSTRUCTION, REROOF (TEAR SYSTEM TYPE E-2: NON-INSULATED, MECHANICALLY ATTACHED BASE SH
6-inch o.c. at 4-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows		6-inch o.c. at min. 2-inch lap and 6-inch o.c. in four (4), equally spaced, staggered center rows	6-inch o.c. at min. 2-inch lap and 6-inch o.c. in three (3), equally spaced, staggered center rows	8-inch o.c. at min. 3-inch lap and 8-inch o.c. in two (2), equally spaced, staggered center rows	$\mathfrak 11$ ) shall yield minimum 109 lbf. Additional Versa-Fast Fasteners within each Versa-Fast Plate may is shall be of sufficient length for minimum 1" penetration through OSB sheathing.	9-inch o.c. at min. 3-inch lap and 12-inch o.c. in two (2), equally spaced, staggered center rows		Attach		REROOF (TEAR-OFF) OR RECOVER HED BASE SHEET, BONDED ROOF COVER
Prime stress plates with Karnak #108		Prime stress plates with Karnak #108	Prime stress plates with Karnak #108	Prime stress plates with Karnak #108	litional Versa-Fast mum 1" penetrati	ASTM D41 primer at plates		711116	D.	COVER
SBS-SA-H		(Optional) SBS-SA	(Optional) SBS-SA	(Optional) SBS-SA	: Fasteners within on through OSB s	(Optional) Flintlastic SA Mid Ply, self- adhering		Base Ply	Roof Cove	
SBS-AA, SBS- TA or APP-TA		SBS-SA	SBS-SA	SBS-SA	each Versa-Fast heathing.	SBS-SA		Cap Ply	Roof Cover (Note 15)	
-97.5		-127.5*	-97.5*	-82.5*	Plate may	-60.0*		(psf)	MDP	



W-97

plywood, 24-inch

Min. 19/32-inch

Base Sheet

W-96

plywood, 24-inch

Min. 19/32-inch

W-95

plywood, 24-inch

Min. 15/32-inch

W-94

plywood, 24-inch

Min. 15/32-inch

Base Sheet

span

W-93

plywood, 24-inch

Min. 15/32-inch

W-92

plywood, 24-inch

Min. 23/32-inch

span

W-91

plywood, 24-inch

Min. 23/32-inch

span

W-90

plywood, 24-inch

Min. 23/32-inch

CONVENTIONAL SYSTEMS:

W-89

plywood, 24-inch

Base Sheet

Min. 15/32-inch

W-88

plywood, 24-inch

Min. 19/32-inch

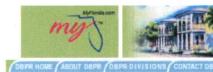
span

Base Sheet

System No.

(Note 1) Deck

## Business & Professional Regulation



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Product Approval Menu > Product or Application Search > Application List > Application Detail

FL16305-R10

Revision

2020

Approved

Comments

Application Type

**Application Status** 

Code Version

Archived

Product Manufacturer

Address/Phone/Email

Atlas Roofing Corporation 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 Zachary R. Priest

**Evaluation Report** 

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			
Impact Resistant Design Pressure:	outside HVHZ: Yes : N/A	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			





### Contact Us:: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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### **Product Approval Accepts:**













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

Issued February 11, 2021

### **EVALUATION REPORT**

FLORIDA BUILDING CODE 7TH EDITION (2020)

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, 7<sup>th</sup> 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.

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Page 1 of 11

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



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.

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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         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-221-02-01       ASTM D 3462       2010A         PRI Construction Materials Technologies (TST5878)       ATL-221-02-01       ASTM D 3462       2010A         PRI Construction Materials Technologies (TST5878)       ATL-221-02-03       ASTM D 3462       2010A         PRI Construction Materials Technologies (TST5878)       ATL-221-02-03       ASTM D 3161       2016         TAS 107       2020       ASTM D 3161       2016         TAS 107       2020	시를 전기로 있다면 보다 하다 하다 하다 하다 하다 하다 하다 하다 하는데 되었다. 그런데 하나 하는데 하다 이 등에 가는데 하다 하는데 되었다. 그런데 하는데 되었다.			
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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         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         PRI Construction Materials Technologies (TST5878)       ATL-221-02-03       ASTM D 3161       2016         ATL-3002.10       FL 16305-R910       Page 2 of 11				
PRI Construction Materials Technologies (TST5878)         ATL-220-02-03         ASTM D 3161         2016           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           PRI Construction Materials Technologies (TST5878)         ATL-221-02-03         ASTM D 3161         2016           ATL13002.10         FL 16305-R910         Page 2 of 11				
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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         ATL13002.10       FL 16305-R910       Page 2 of 11	PRI Construction Materials Technologies (1515878)	A1L-220-02-03		
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PRI Construction Materials Technologies (TST5878)  ATL-221-02-03  ASTM D 3161  TAS 107  2016  TAS 107  Page 2 of 11	PRI Construction Materials Technologies (1S15878)			
TAS 107 2020 ATL13002.10 FL 16305-R910 Page 2 of 11	PRI Construction Materials Technologies (1S15878)			
ATL13002.10 FL 16305-R910 Page 2 of 11	PRI Construction Materials Technologies (1S15878)	A1L-221-U2-U5		
A1E13002.10		EL 40205 D040	170 101	
	ATL13002.10		1000 2 T	

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.



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	<b>ASTM D 3161</b>	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	<b>ASTM D 3161</b>	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	<b>ASTM D 3161</b>	2016
		TAS 107	2020
CREEK Technical Services LLC (ANE11669)	ATL13002.7	Calculations	2018

ATL13002.10 FL 16305-R910

### INSTALLATION

Legend

Basic Wind Speed (Vult):

Max. 194 mph Max. 150 mph

Basic Wind Speed (Vasd): 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

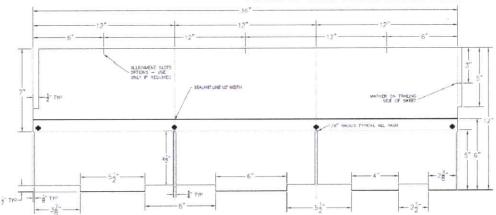


Figure 1. Legend 4 Nail Pattern (Non-HVHZ only)

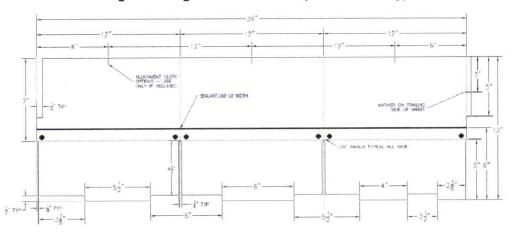


Figure 2. Legend 6 Nail Pattern

GlassMaster® 30

Tough-Master® 20

Basic Wind Speed (V<sub>ult</sub>): Basic Wind Speed (V<sub>asd</sub>):

Deck (HVHZ):

Max. 194 mph Max. 150 mph

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.

Solidly sheathed in accordance with FBC requirements.

Deck (Non-HVHZ): Underlayment:

Min, slope:

In accordance with FBC requirements.

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

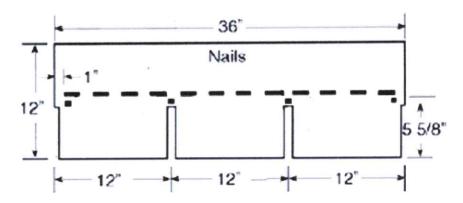


Figure 3. GlassMaster® 30 & Tough-Master® 20 4 Nail Pattern (Non-HVHZ only)

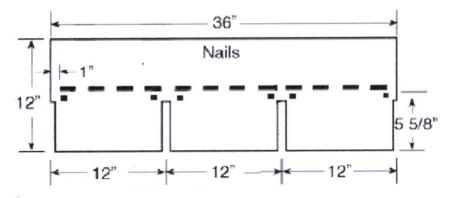


Figure 4. GlassMaster® 30 & Tough-Master® 20 6 Nail Pattern



### ProLAM™ Architectural

Basic Wind Speed (Vult):

Basic Wind Speed (Vasd): Deck (HVHZ):

Max. 194 mph Max. 150 mph

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): Underlayment:

Min, slope:

Solidly sheathed in accordance with FBC requirements.

In accordance with FBC requirements.

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

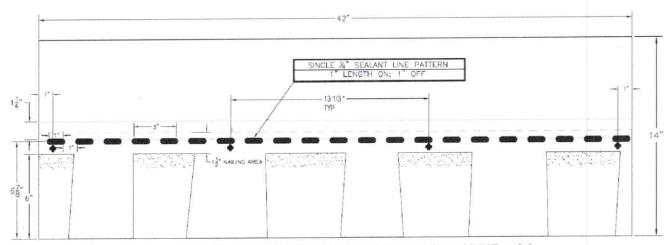


Figure 5. ProLAM™ Architectural Shingle 4 Nail Pattern (non-HVHZ only)

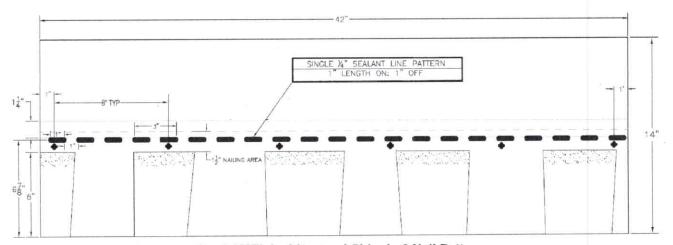


Figure 6. Pro-LAM™ Architectural Shingle 6 Nail Pattern



Pinnacle® Pristine

č.

StormMaster® Shake

Basic Wind Speed (Vult):

Basic Wind Speed (V<sub>asd</sub>): Deck (HVHZ): Max. 194 mph Max. 150 mph

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):

Underlayment: Min. slope: Solidly sheathed in accordance with FBC requirements.

In accordance with FBC requirements.

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

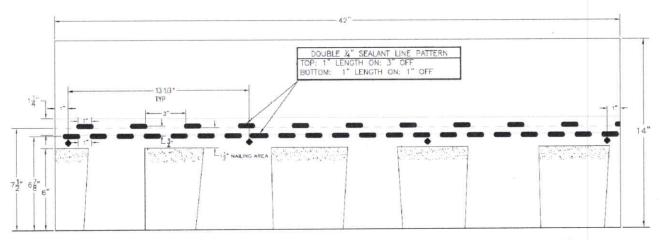


Figure 7. Pinnacle® Pristine and StormMaster® Shake 4 Nail Pattern (Non-HVHZ only)

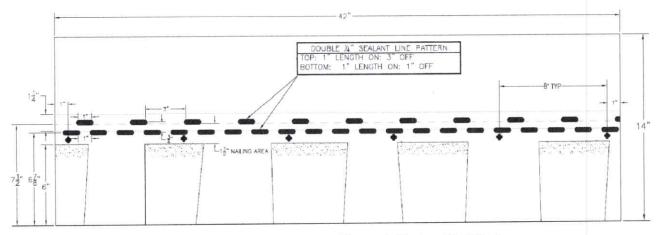


Figure 8. Pinnacle® Pristine and StormMaster® Shake 6 Nail Pattern

### StormMaster® Slate

Basic Wind Speed (Vult):

Max. 194 mph Basic Wind Speed (Vasd): Deck (HVHZ):

Max. 150 mph

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):

Underlayment: Min, slope:

Solidly sheathed in accordance with FBC requirements.

In accordance with FBC requirements.

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

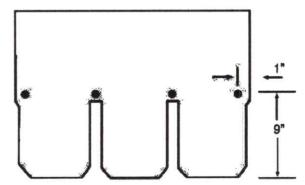


Figure 9. StormMaster® Slate 4 Nail Pattern

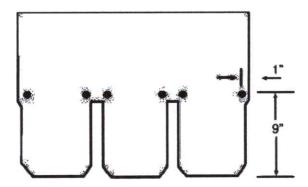


Figure 10. StormMaster® Slate 6 Nail Pattern



Pro-Cut® Starter Strip

Basic Wind Speed (Vult): Basic Wind Speed (Vasd): Max. 194 mph 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.

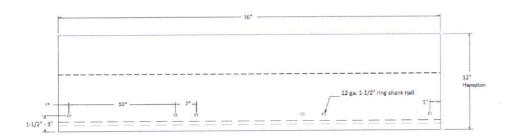


Figure 11. Pro-Cut® Starter Strip



Pro-Cut® Hip & Ridge StormMaster® Hip & Ridge

Basic Wind Speed (Vult): Basic Wind Speed (Vasd):

Deck (HVHZ):

Deck (Non-HVHZ): Underlayment: Min. slope: Installation (HVHZ and non-HVHZ):

Max. 194 mph Max. 150 mph

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.

Solidly sheathed in accordance with FBC requirements.

In accordance with FBC requirements.

2:12 and in accordance with FBC requirements.

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.

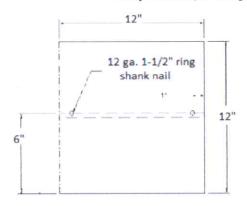


Figure 12. Pro-Cut® Hip & Ridge and StormMaster® Hip & Ridge



### 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.
- 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, 7<sup>th</sup> Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



2021.02.11

12:45:39

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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