



ROOFING CORPORATION

technical bulletin

TO: All Region Managers, Plant Managers, National Account Managers, Sales Representatives, Account Executives, and Atlanta Sales

FROM: Ed Todd, Director, Product Development
Residential Roofing Products

DATE: March 24, 2009

SUBJECT: Trinity ERD Product Evaluation Report
Atlas Asphalt Shingle Product Line

The following Trinity ERD Product Evaluation Report is prepared to include the current product testing and evaluation credentials, installation methods and systems. This report covers virtually all circumstances wherein asphalt shingles may be the desired and or optional roof covering materials, and indicates the performance characteristics of the various choices within the Atlas asphalt shingle product line.



EXTERIOR RESEARCH & DESIGN, LLC.

Certificate of Authorization #9503

353 CHRISTIAN STREET, UNIT #13

OXFORD, CT 06478

PHONE: (203) 262-9245

FAX: (203) 262-9243

EVALUATION REPORT

Atlas Roofing Corporation
2000 River Edge Parkway
Atlanta, GA 30328

Evaluation Report A12620.12.08-R3

FL9792-R4

Date of Issuance: 12/18/2008

Revision 3: 02/24/2012

SCOPE:

This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: Atlas Asphalt Roof Shingles

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein. For HVHZ, shingles shall be labeled in accordance with Miami-Dade requirements.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 02/24/2012. This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client.

CERTIFICATION OF INDEPENDENCE:

1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing

Sub-Category: Asphalt Shingles

Compliance Statement: Atlas Asphalt Roof Shingles, as produced Atlas Roofing Corporation, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Section</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2007
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2006
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2007
1507.2.7.1, R905.2.6.1	Wind Resistance	TAS 107	1995
1523.6.5.1	Wind Driven Rain	TAS 100	1995

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ATI (TST 1558)	Wind Driven Rain	TAS 100	01/30/1998
PRI (TST 5878)	Wind Driven Rain	TAS 100	07/09/2003
PRI (TST 5878)	Physical Properties	ATL-021-02-01	04/08/2005
PRI (TST 5878)	Wind Driven Rain	TAS 100	01/31/2005
PRI (TST 5878)	Wind Driven Rain	ATL-020-02-01	02/03/2005
PRI (TST 5878)	Physical Properties	ASTM D3462	05/02/2005
PRI (TST 5878)	Physical Properties	ATL-035-02-01	10/12/2007
PRI (TST 5878)	Wind Driven Rain	ATL-036-02-01	02/28/2008
PRI (TST 5878)	Wind Resistance	ATL-054-02-01	04/29/2010
PRI (TST 5878)	Wind Driven Rain	ATL-053-02-01	05/03/2010
PRI (TST 5878)	Physical Properties	ATL-055-02-01	05/12/2010
PRI (TST 5878)	Wind Resistance	ATL-054-02-01	04/29/2010
PRI (TST 5878)	Wind Resistance	ATL-056-02-01	06/21/2010
PRI (TST 5878)	Wind Driven Rain	ATL-020-02-01; Addendum	09/09/2011
PRI (TST 5878)	Physical Properties	ATL-021-02-01; Addendum	09/09/2011
PRI (TST 5878)	Wind Resistance	ATL-079-02-01	02/17/2012
PRI (TST 5878)	Wind Driven Rain	ATL-081-02-01	02/17/2012
PRI (TST 5878)	Wind Resistance	ATL-081-02-02	02/17/2012
UL (TST 1740)	Wind Resistance	TAS 107	06/09/1999
UL (TST 1740)	Wind Resistance	02NK6989	03/04/2002
UL (TST 1740)	Wind Resistance	05CA03322	05/06/2005
UL (TST 1740)	Wind Resistance	TAS 107	09/15/2005
UL (TST 1740)	Wind Resistance	TAS 107 / 02NK6989	03/04/2002
UL (TST 1740)	Physical Properties	ASTM D3462 / R4052	09/17/2002
UL (TST 1740)	Physical Properties	ASTM D3462 / R4052	03/02/2006
UL (TST 1740)	Wind Resistance	07CA26303	08/31/2007
UL (TST 1740)	Physical Properties	ASTM D3462 / R4052	11/14/2007
UL (TST 1740)	Wind Classification	07NK22063	04/29/2008
Miami-Dade (CER 1592)	HVHZ Compliance	07-0927.06	04/10/2008
Miami-Dade (CER 1592)	HVHZ Compliance	09-0114.01	03/11/2009
Miami-Dade (CER 1592)	HVHZ Compliance	10-0519.03	08/04/2010
Miami-Dade (CER 1592)	HVHZ Compliance	10-0519.04	08/04/2010
Atlas Roofing	Trade Name Documentation	Trade Name Documentation	02/03/2012
Atlas Roofing	Trade Name Documentation	Trade Name Documentation	02/07/2012
Atlas Roofing	Trade Name Documentation	Trade Name Documentation	02/23/2012
UL (QUA 1743)	Quality Control	Inspection Report; R4052	01/18/2012
UL (QUA 1743)	Quality Control	Inspection Report; R4052	02/08/2012

4. PRODUCT DESCRIPTION:

- 4.1 GlassMaster® 25, GlassMaster® 30, Tough-Glass 20 and StormMaster® Slate are fiberglass reinforced, 3-tab asphalt roof shingles.
- 4.2 Pinnacle®, Pinnacle® 35, Pinnacle® Lifetime, Pinnacle® Lifetime with Scotchgard™, Pinnacle® HP, and StormMaster® Shake with Scotchgard™ (formerly StormMaster® LM) are fiberglass reinforced, laminated asphalt roof shingles.

5. LIMITATIONS:

- 5.1 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.2 Wind Classification (non-HVHZ):
 - 5.2.1 GlassMaster® 25, GlassMaster® 30, Tough-Glass 20, StormMaster® Slate, Pinnacle® HP and StormMaster® Shake with Scotchgard™ (formerly StormMaster® LM) shingles noted herein have been tested in accordance with FBC Table 1507.2.7.1 and R905.2.6.1 to UL3161, Class F, indicating the shingles are acceptable for use in all wind zones up to $V_{asf} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6.1 for installation requirements to meet this wind rating.
 - 5.2.2 GlassMaster® 25, GlassMaster® 30, Tough-Glass 20, StormMaster® Slate, Pinnacle®, Pinnacle® 35, Pinnacle® Lifetime, Pinnacle® Lifetime with Scotchgard™, StormMaster® Shake with Scotchgard™ (formerly StormMaster® LM) have been tested / examined in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D7158, Class H, indicating the shingles are acceptable for use in all wind zones up to $V_{asf} = 150$ mph ($V_{ult} = 194$ mph). Refer to Section 6.1 for installation requirements to meet this wind rating.
 - 5.2.2.1 Classification by ASTM D7158 applies to exposure category B or C and a building height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.
- 5.3 Wind Resistance (HVHZ):
 - 5.3.1 GlassMaster® 25, GlassMaster® 30, Tough-Glass 20, StormMaster® Slate, Pinnacle®, Pinnacle® 35, Pinnacle® Lifetime, Pinnacle® Lifetime with Scotchgard™, Pinnacle® HP and StormMaster® Shake with Scotchgard™ (formerly StormMaster® LM) have been tested / examined in accordance with TAS 107 and TAS 100, and are suitable for use in HVHZ. Refer to Section 6.2 for installation requirements for HVHZ.
 - 5.3.2 Shall not be installed on roof mean heights in excess of 33 feet.
- 5.4 All products in the roof assembly shall have quality assurance audit in accordance with the Florida Building Code and F.A.C. Rule 9N-3.

6. INSTALLATION:

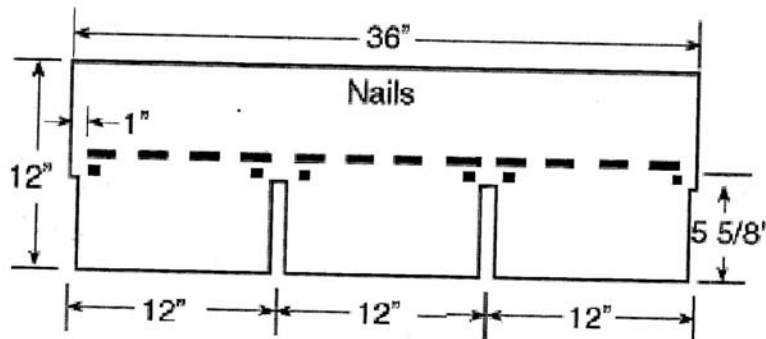
6.1 Non-HVHZ:

- 6.1.1 Underlayment:
 - 6.1.1.1 Underlayment shall be acceptable to Atlas Roofing Corporation and shall hold current Florida Product Approval, or be Locally Approved per Rule 9N-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.
- 6.1.2 Asphalt Shingles:

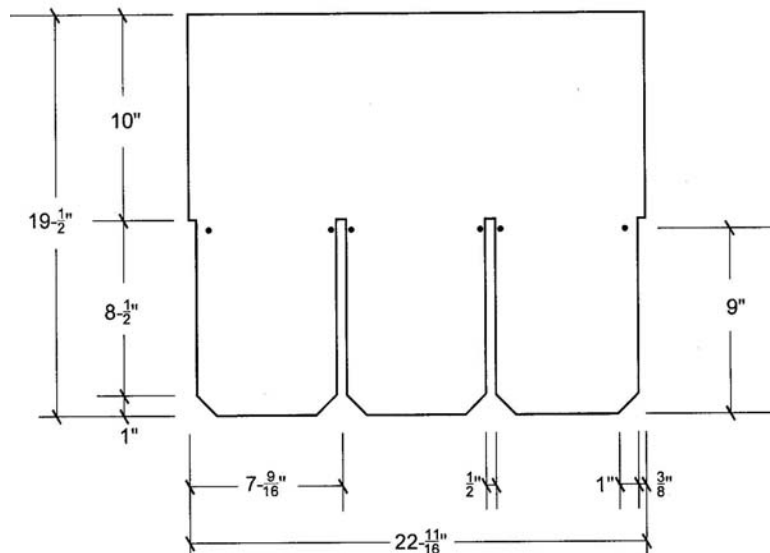
- 6.1.2.1 Installation of asphalt shingles shall comply with the manufacturer's current published instructions, using minimum four (4) nails per shingle in accordance with the requirements of FBC Sections 1507.2 or R905.2.
- 6.1.2.2 Nails and nail placement shall be in accordance with manufacturer's current published installation instructions, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.
- 6.1.2.3 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact Atlas Roofing for details.

6.2 HVHZ:

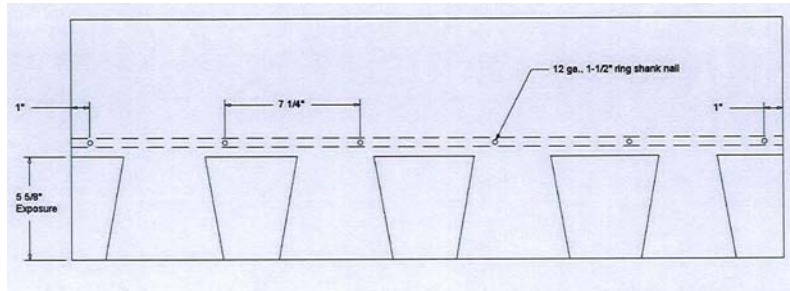
- 6.2.1 Shingles and flashings shall be installed in accordance with RAS 115.
- 6.2.2 The manufacturer shall provide clearly written application instructions to be used in conjunction with RAS 115. Should a particular section of the installation instructions conflict with RAS 115, the requirements of RAS 115 prevail.
- 6.2.3 Nail placement requirements are as detailed below.
- 6.2.3.1 GlassMaster® 25, GlassMaster® 30, Tough-Glass 20:



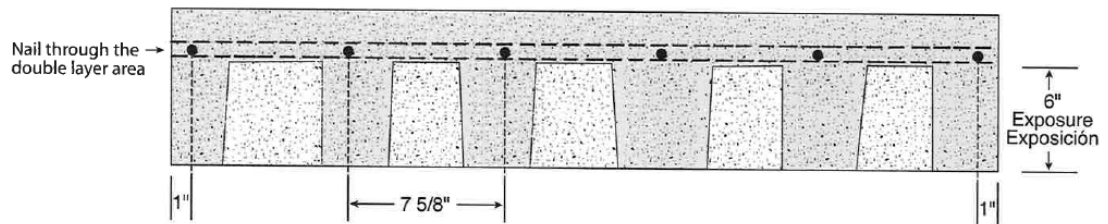
- 6.2.3.2 StormMaster® Slate:



6.2.3.3 Pinnacle[®], Pinnacle[®] 35, Pinnacle[®] Lifetime, Pinnacle Lifetime[®] with Scotchgard[™], StormMaster[®] Shake with Scotchgard[™] (formerly StormMaster LM):



6.2.3.4 Pinnacle[®] HP:



7. LABELING:

- 7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein. For HVHZ, shingles shall be labeled in accordance with HVHZ requirements.
- 7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in FBC Table 1507.2.7.1 / R905.2.6.1.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered by QA procedures

10. QUALITY ASSURANCE ENTITY:

Underwriters Laboratories – QUA1743

- END OF EVALUATION REPORT -