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EVALUATION REPORT

Atlas Roofing Corporation
2000 River Edge Parkway
Atlanta, GA 30328

Evaluation Report A12630.12.08-HVHZ-R6
FL11915-R3
Date of Issuance: 12/23/2008
Revision 6: 12/04/2012

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 (HVHZ).

DESCRIPTION: Atlas Roof Underlayments (HVHZ)

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

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 7.

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 12/04/2012. 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 for which the evaluation reports are being issued.
 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.

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ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Compliance Statement: Atlas Roof Underlayments, as produced by Atlas Roofing Corporation, have demonstrated compliance with the following sections of the Florida Building Code (HVHZ) 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:

Section	Property	Standard	Year
1518.4, RAS 115, RAS 118, RAS 119, RAS 120	Physical Properties	ASTM D226	2006
1507.2.4, 1507.2.9.2, 1507.5.3	Physical Properties	ASTM D1970	2001
1518.4, RAS 115, RAS 118, RAS 119, RAS 120	Physical Properties	ASTM D2626	2004
1518.4, RAS 115, RAS 118, RAS 119, RAS 120	Physical Properties	ASTM D6380	2003
1523.1.1	Physical Properties	TAS 110	2000
1523.6.5.2.1	Physical Properties	TAS 103	1995
TAS 110	Accelerated Weathering	ASTM D4798	2001

3. REFERENCES:

Entity	Examination	Reference	Date
Atlas	Traceability	Cross-Listing	03/11/2009
PR1 (TST 5878)	TAS 103	NEI-006-02-01	08/12/2003
PR1 (TST 5878)	TAS 103 / ASTM D4798	NEI-045-02-01	05/10/2007
PR1 (TST 5878)	ASTM D226	ATL-033-02-01	08/16/2007
PR1 (TST 5878)	Tensile Adhesion / LTA	NEI-046-02-01	09/17/2007
PR1 (TST 5878)	ASTM D1970	NEI-029-02-01	10/19/2007
PR1 (TST 5878)	TAS 103 / ASTM D4798	NEI-045-02-01	03/17/2008
PR1 (TST 5878)	TAS 103 / ASTM D4798	NEI-053-02-01	04/30/2008
PR1 (TST 5878)	ASTM D1970	NEI-062-02-01	01/14/2009
PR1 (TST 5878)	TAS 103 / ASTM D4798	NEI-076-02-01	02/14/2011
PR1 (TST 5878)	ASTM D1970 / ASTM D4798	ATL-088-02-01	08/29/2012
PR1 (TST 5878)	ASTM D1970	ATL-089-02-01	08/29/2012
UL (TST 1740)	TAS 103	ATL-090-02-01	08/29/2012
UL (TST 1740)	ASTM D1970	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D1970	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D2626	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D4869	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D6757	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D6380	02-NK40952	02/27/2003
UL (TST 1740)	ASTM D6757	08CA18320	04/25/2008
ICC-ES (EVL 2396)	IBC Compliance	ESR-1783	06/01/2011
ICC-ES (EVL 2396)	IBC Compliance	ESR-3123	12/01/2011
Miami-Dade (CER 1592)	HVHZ Compliance	08-1006.03	01/28/2009
Miami-Dade (CER 1592)	HVHZ Compliance	10-0413.03	07/21/2010
Miami-Dade (CER 1592)	HVHZ Compliance	11-1110.12	02/09/2012
Polyfoam Products	Tensile Adhesion	Polyfoam List	04/02/2009
UL, LLC. (QUA9625)	Quality Control	File No. TSDY.R14902	07/19/2008
UL, LLC. (QUA9625)	Quality Control	File No. R25794	02/06/2009
UL, LLC. (QUA9625)	Quality Control	Inspection Report	02/22/2012
UL, LLC. (QUA9625)	Quality Control	MLA, R25794	07/06/2012

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4. PRODUCT DESCRIPTION:

- 4.1 #15 SPECIFICATION FELT is an ASTM D226 Type I asphalt-saturated organic felt.
- 4.2 #30 SPECIFICATION FELT is an ASTM D226 Type II asphalt-saturated organic felt.
- 4.3 #43 BASE SHEET is an ASTM D2626 asphalt-saturated and coated organic felt.
- 4.4 GORILLA GUARD® is a glass mat reinforced, asphalt-saturated roofing underlayment that meets the performance requirements for an ASTM D226, Type I organic felt.
- 4.5 WEATHERMASTER™ GRANULAR ICE & WATER PROTECTION is an ASTM D1970 self-adhering, glass mat reinforced, granular surfaced, SBS modified roof underlayment.
- 4.6 WEATHERMASTER™ POLYSEAL is an ASTM D1970 self-adhering, poly-fabric surfaced, high-temp, SBS modified roof underlayment.
- 4.7 WEATHERMASTER™ TU ULTRA is a TAS 103 / ASTM D1970 self-adhering, woven polyester surfaced, SBS modified tile underlayment.
- 4.8 WEATHERMASTER™ GRANULAR SE is a self-adhering, non-woven-fiberglass reinforced, granule surfaced, SBS modified roof underlayment.
- 4.9 WEATHERMASTER™ GRANULAR SE 200 is a self-adhering, non-woven-fiberglass reinforced, granule surfaced, SBS modified roof underlayment.
- 4.10 WEATHERMASTER™ POLYSEAL SE is a self-adhering, non-woven-fiberglass reinforced, poly-fabric surfaced, SBS modified roof underlayment.
- 4.11 #55 SMOOTH ROLL ROOFING is an ASTM D6380, Class S / ASTM D224 asphalt-saturated organic roll roofing sheet that meets the performance requirements of ASTM D2626.
- 4.12 SLATE/TILE UNDERLAYMENT is an ASTM D6380, Class M asphalt-saturated organic roll roofing sheet.
- 4.13 #90 MINERAL SURFACE ROLL ROOFING is an ASTM D6380, Class M asphalt-saturated organic roll roofing sheet.

5. LIMITATIONS:

- 5.1 Fire Classification is not part of this Laboratory Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.
- 5.2 #15 SPECIFICATION Felt and Gorilla Guard can be used in any approved prepared roof assemblies where ASTM D226, Type I underlayment is specified and installed with prescribed approved fasteners and fastener densities.
- 5.3 #30 SPECIFICATION Felt can be used in any approved prepared roof assemblies where ASTM D226, Type II underlayment is specified and installed with prescribed approved fasteners and fastener densities.
- 5.4 #43 Base Sheet and #55 Smooth Roll Roofing can be used in any approved prepared roof assemblies where ASTM D2626 underlayment is specified and installed with prescribed approved fasteners and fastener densities.
- 5.5 WeatherMaster™ Granular Ice & Water Protection, WeatherMaster™ Polyseal, WeatherMaster™ TU, WeatherMaster™ Granular SE and WeatherMaster™ Granular SE 200 can be used in any approved prepared roof assemblies where ASTM D1970 underlayment is specified.
- 5.6 WeatherMaster™ TU Ultra and WeatherMaster™ Polyseal SE can be used in any approved prepared roof assemblies where TAS 103 underlayment is specified.
- 5.7 #55 Smooth Roll Roofing can be used in any approved prepared roof assemblies where ASTM D6380 Class S / ASTM D224 underlayment is specified.

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5.8 State/Tile Underlayment and #90 Mineral Surface Roll Roofing can be used in any approved prepared roof assemblies where ASTM D6380, Class M underlayment is specified and installed with prescribed adhesives (e.g., D312, type IV hot asphalt).

5.9 Allowable prepared roof covers applied atop Atlas Roof Underlayments (HVHZ) are follows:

Table 1: Roof Cover Options for Atlas Roof Underlayments (HVHZ)

Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Metal	Wood Shakes & Shingles	Slate
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#15 Specification Felt	Yes: 2 layers	No	No	Yes: 2 layers	Yes: 2 layers	Yes: 2 layers
#30 Specification Felt	Yes	Yes: Base Layer	Yes: Base Layer	Yes	Yes	Yes
#43 Base Sheet	Yes	Yes: Base Layer	Yes: Base Layer	Yes	Yes	Yes
Gorilla Guard	Yes: 2 layers	No	No	Yes: 2 layers	Yes: 2 layers	Yes: 2 layers
WeatherMaster Granular Ice & Water Protection	Yes	No	No	Yes	Yes	Yes
WeatherMaster Polyseal	Yes	No	No	Yes	Yes	Yes
WeatherMaster TU Ultra	Yes	Yes	Yes: Top Layer See 5.9.1	Yes	Yes	Yes
WeatherMaster Granular SE or WeatherMaster Granular SE 200	Yes	No	No	Yes	Yes	Yes
WeatherMaster Polyseal SE	Yes	Yes	Yes: Top Layer See 5.9.1	Yes	Yes	Yes
#55 Smooth Roll Roofing	Yes	Yes: Base Layer	Yes: Base Layer	Yes	Yes	Yes
State / Tile Underlayment	Yes: Top Layer	Yes: Top Layer	Yes: Top Layer See 5.9.1	No	Yes: Top Layer	Yes: Top Layer
#90 Mineral Surface Roll Roofing	Yes: Top Layer	Yes: Top Layer	Yes: Top Layer See 5.9.1	No	Yes: Top Layer	Yes: Top Layer

5.9.1 "Foam-On Tile" is limited to use of the following unless tensile adhesion / long term aging data from an accredited testing laboratory is provided.

> WeatherMaster TU Ultra: Convenience Products Touch 'n Seal StormBond Roof Tile Adhesive or Polyfoam PolyPro AH160.

> WeatherMaster Polyseal SE: Polyfoam PolyPro AH160.

> State / Tile Underlayment or #90 Mineral Surface Roll Roofing: Convenience Products Touch 'n Seal StormBond Roof Tile Adhesive, Dow TileBond or Polyfoam PolyPro AH160.

5.10 Exposure Limitations:

5.10.1 #15 Specification Felt, #30 Specification Felt, #43 Base Sheet and #55 Smooth Roll Roofing shall be covered as soon as possible after installation; exposure for more than 24 hours after installation could adversely affect performance

5.10.2 Gorilla Guard®, WeatherMaster™ Granular Ice & Water Shield, WeatherMaster™ Polyseal, WeatherMaster™ Granular SE, WeatherMaster™ Granular SE 200, Slate/Tile Underlayment and #90 Mineral Surface Roll Roofing shall not be left exposed for longer than 30-days after installation.

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- 5.10.3 WeatherMaster™ Polysal SE shall not be left exposed for longer than 90-days after installation.
- 5.10.4 WeatherMaster™ TU Ultra shall not be left exposed for longer than 180-days after installation.
- 5.11 For tile roof installations governed by RAS 118, RAS 119 and RAS 120 use is limited to the following:

Table 2: Tile System Options for Atlas Roof Underlayments per RAS 118, 119 or 120

System	Underlayment Option	Section	Reference	Atlas Product(s)
RAS 118 RAS 119 RAS 120	1	3.01A	ASTM D226, Type II	#30 Specification Felt
			ASTM D2626	#43 Base Sheet or #55 Smooth Roll Roofing
			ASTM D6380, Class M	Slate / Tile Underlayment, #90 MSR
			Anchor/Base Sheet	#30 Specification Felt, #43 Base Sheet or #55 Smooth Roll Roofing
	2	3.02D	Self-Adhered Underlayment	WeatherMaster TU Ultra, WeatherMaster Polysal SE

- 5.11.1 The standard maximum roof pitch for WeatherMaster TU Ultra or WeatherMaster Polysal SE shall be 6:12 when tiles are loaded directly to the underlayment; loading boards or battens are required on roof pitches greater than 6:12.
- 5.11.2 The standard maximum roof pitch for Slate / Tile Underlayment or #90 Mineral Surface Roll Roofing shall be dictated by RAS 118, RAS 119 or RAS 120.

6. INSTALLATION:

- 6.1 Atlas Roof Underlayments shall be installed in accordance with Atlas published installation requirements subject to the limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and prime the substrate (if applicable).
- 6.3 Approved Assemblies:
- 6.3.1 System E(1): Underlayment mechanically fastened to deck
Deck Type 1: Wood, Non-Insulated
Deck Description: Min. 1 9/32" plywood or wood plank
Underlayment: Minimum two plies of #15 Specification Felt or Gorilla Guard® with a minimum 19" wide headlap and a minimum 6" wide end laps, mechanically fastened to deck.
Fastening: HVHZ Approved nails and tin caps 6" o.c. at lap and two equally spaced staggered rows 12" o.c. in the field.
Surfacing: HVHZ Approved asphalt shingle, non-structural metal, wood shakes & shingles or slate.

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6.3.2	System E(2):	Deck Type 1: Wood, Non-Insulated	Deck Description: Min. 19/32" plywood or wood plank	Underlayment: One or more plies of #30 Specification Felt, #43 Base Sheet or #55 Smooth Roll Roofing with minimum 4" wide head laps and a minimum 6" wide end laps, mechanically fastened to deck.	Fastening: HVHZ Approved nails and tin caps 6" o.c. at lap and two equally spaced staggered rows 12" o.c. in the field.	Surfacing: HVHZ Approved asphalt shingle, non-structural metal, wood shakes & shingles or slate.	6.3.3	System E(3):	Deck Type 1: Wood, Non-Insulated	Deck Description: Min. 19/32" plywood or wood plank	Base Layer: One or more plies of #30 Specification Felt, #43 Base Sheet or #55 Smooth Roll Roofing with minimum 4" wide head laps and a minimum 6" wide end laps, mechanically fastened to deck.	Fastening: HVHZ Approved nails and tin caps 6" o.c. at lap and two equally spaced staggered rows 12" o.c. in the field.	Top Layer: WeatherMaster™ Granular Ice & Water Shield, WeatherMaster™ Polyseal, WeatherMaster™ Granular SE or WeatherMaster™ Granular SE 200, self-adhered to the base layer with minimum 3" head laps and minimum 6" staggered end laps.	Surfacing: HVHZ Approved asphalt shingle, non-structural metal, wood shakes & shingles or slate.	6.3.4	System E(4):	Deck Type 1: Wood, Non-Insulated	Deck Description: Min. 19/32" plywood or wood plank	Base Layer: One or more plies of #30 Specification Felt, #43 Base Sheet or #55 Smooth Roll Roofing with minimum 4" wide head laps and a minimum 6" wide end laps, mechanically fastened to deck.	Fastening: HVHZ Approved nails and tin caps 6" o.c. at lap and two equally spaced staggered rows 12" o.c. in the field.	Mid Layer: (Optional) #15 Specification Felt, Gorilla Guard®, #30 Specification Felt, #43 Base Sheet or #55 Smooth Roll Roofing with minimum 3" wide head laps and minimum 6" wide end laps in full 25 lb/sq ± 15% mopping of ASTM D312, Type IV asphalt.	Top Layer: Slate/Tile Underlayment or #90 Mineral Surface Roll Roofing with minimum 3" wide head laps and minimum 6" wide end laps in full 25 lb/sq ± 15% mopping of ASTM D312, Type IV asphalt. Headlaps shall be back-nailed 12" o.c. with HVHZ Approved nails and tin caps.	Or WeatherMaster™ TU Ultra or WeatherMaster™ Polyseal SE with a minimum 4" side lap and 6" end lap.	Surfacing: HVHZ Approved asphalt shingle, non-structural metal, wood shakes & shingles, slate or tile.
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7. LABELING: 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.

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 manufacturer or the named QA entity for information on plants covered under Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY: UL LLC - QUA9625; (847) 664-3281

- END OF EVALUATION REPORT -

Exterior Research and Design, LLC.
Certificate of Authorization #9503

Evaluation Report A12630.12.08-HVHZ-R6
FL11915-R3
Revision 6: 12/04/2012
Page 7 of 7