



EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer: ATLAS ROOFING CORPORATION
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Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1507.1.1, 1518.4, 1523.1.1, 1523.6.5.2.1
Properties: Physical properties

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST6049)	ATL-033-02-01	ASTM D 226	2009
PRI Construction Materials Technologies (TST6049)	ATL-068-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	ATL-068-02-01	ASTM D 4798	2011(2016)
PRI Construction Materials Technologies (TST6049)	ATL-068-02-01	TAS 110	2000
PRI Construction Materials Technologies (TST6049)	ATL-069-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	ATL-090-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST6049)	ATL-149-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	ATL-164-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	BWR-533-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST6049)	BWR-543-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	MSA-004-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	MSA-007-02-01	UL 1897	2012
PRI Construction Materials Technologies (TST6049)	MSA-026-02-01	ASTM D 1970	2015a
PRI Construction Materials Technologies (TST6049)	WRMI-011-02-01	ASTM 1970	2015a
PRI Construction Materials Technologies (TST6049)	MSA-007-02-01	UL 1897	2012
PRI Construction Materials Technologies (TST6049)	MSA-030-02-01	ASTM D 1970	2015a
UL LLC (TST1740)	02-NK40952	ASTM D 1970	2015a
UL LLC (TST1740)	02-NK40952	ASTM D 226	2009
UL LLC (TST1740)	02-NK40952	ASTM D 2626	2004(2012)E1
UL LLC (TST1740)	02-NK40952	ASTM D 4869	2016
UL LLC (TST1740)	02-NK40952	ASTM D 6380	2003 (2013)

PRODUCT DESCRIPTION

#15 Specification Felt	ASTM D 226, Type I asphalt saturated organic felt underlayment for use in the HVHZ and non-HVHZ.
#30 Organic Saturated Felt	ASTM D 4869, Type II asphalt saturated organic felt underlayment <u>for use in the non-HVHZ only.</u>
#30 Specification Felt	ASTM D 226, Type II asphalt saturated organic felt underlayment for use in the HVHZ and non-HVHZ.
#43 Base Sheet	ASTM D 2626 asphalt saturated and coated, non-perforated, organic felt underlayment for use in the HVHZ and non-HVHZ.
#90 Mineral Surface Roll Roofing	ASTM D 6380, Class M asphalt-saturated organic roll roofing sheet for use in the HVHZ and non-HVHZ.
Gorilla Guard® EVERFELT 30	Asphalt-saturated organic felt underlayment reinforced with glass fiber that meets the performance requirements of ASTM D 226, Type I for use in the HVHZ and non-HVHZ.
Slate/Tile Underlayment	ASTM D 6380, Class M asphalt-saturated organic roll roofing sheet for use in the HVHZ and non-HVHZ.
WeatherMaster® Ice and Water 100	ASTM D 1970 SBS modified, self-adhering underlayment reinforced with a fiberglass mat and a granular surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a release film, which is removed during installation.
WeatherMaster® Ice and Water 200	ASTM D 1970 SBS modified, self-adhering underlayment reinforced with a fiberglass mat and a granular surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a split-release film, which is removed during installation.
WeatherMaster® Ice and Water 216	ASTM D 1970 SBS modified, self-adhering underlayment reinforced with a fiberglass mat and a granular surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a split-release film, which is removed during installation.
WeatherMaster® Flexible Ice and Water	ASTM D 1970 SBS modified, self-adhering underlayment with plastic film surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a split-release film, which is removed during installation.
WeatherMaster® Pro-Grade Ice and Water	ASTM D 1970 SBS modified, self-adhering underlayment with a fiberglass mat reinforcement and a poly-fabric surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a release film, which is removed during installation.
WeatherMaster® Tile	TAS 103 SBS modified, self-adhering underlayment with a fiberglass mat reinforcement and a poly-fabric surface for use in the HVHZ and non-HVHZ. The self-adhesive side is covered with a release film, which is removed during installation.

APPLICATION METHOD

Installation shall be in accordance with the published manufacturer's installation instructions, the FBC, and the requirements below.

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.

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

Exposure of the underlayments shall be limited to a maximum 30 days except as follows:

- a) #15 Specification Felt, #30 Specification Felt, and #40 Base Sheet – exposure for than 24 hours may adversely affect product performance
- b) WeatherMaster® Ice and Water 100, WeatherMaster® Ice and Water 200, and WeatherMaster® Ice and Water 216 – maximum 30 days
- c) WeatherMaster® Pro-Grade Ice and Water and WeatherMaster® Flexible Ice and Water – maximum 30 days
- d) WeatherMaster® Tile – maximum 90 days

Self-adhering underlayments may be adhered to primed or unprimed plywood substrates in the non-HVHZ.

Roof coverings shall be mechanically fastened through the underlayment to the roof deck except as follows (or as indicated in other current FBC product approval documents):

- a) WeatherMaster® Pro-Grade Ice and Water or WeatherMaster® Tile – ICP Adhesives Polyset AH-160
- b) Slate/Tile Underlayment or #90 Mineral Surface Roll Roofing – Convenience Products Touch n' Seal StormBond Roof Tile Adhesive, Dow TileBond, or ICP Adhesives Polyset AH-160

Allowable Roof Coverings:

Underlayment	Asphalt Shingles	Metal Roof Panels and Shingles	Composite or Photovoltaic Shingles	Wood Shingles and Shakes	Slate Shingles	Clay and Concrete Tile
#15 Specification Felt	Y	Y	Y	Y ²	Y	N
#30 Organic Saturated Felt	Y	Y	Y	Y	Y	N
#30 Specification Felt	Y	Y	Y	Y	Y	Y
#43 Base Sheet	Y	Y	Y	N	Y	Y
#90 Mineral Surface Roll Roofing	Y ¹	N	N	N	N	Y
Gorilla Guard® EVERFELT 30	Y	Y	Y	Y ²	Y	N
Slate/Tile Underlayment	Y ¹	N	N	N	N	Y
WeatherMaster® Ice and Water 100	Y	Y	Y	N	Y	N
WeatherMaster® Ice and Water 200	Y	Y	Y	N	Y	N
WeatherMaster® Ice and Water 216	Y	Y	Y	N	Y	N
WeatherMaster® Flexible Ice and Water	Y	Y	Y	N	Y	N
WeatherMaster® Pro-Grade Ice and Water	Y	Y	Y	N	Y	N
WeatherMaster® Tile	Y	Y	Y	N	Y	Y

Notes: 1) Open valley applications per 1507.2.9.2
2) Wood shingles only

WIND RESISTANCE (NON-HVHZ ONLY)

The *Maximum Design Pressures* shown below were calculated using a 2:1 margin of safety per FBC Section 1504.9.

Underlayment System No.1 – WeatherMaster® Tile only

Roof Deck: Min. 15/32-inch CDX plywood attached to wood supports spaced a maximum 24" o.c.

Underlayment: **WeatherMaster® Tile** shall be fully adhered to the optionally primed plywood deck.

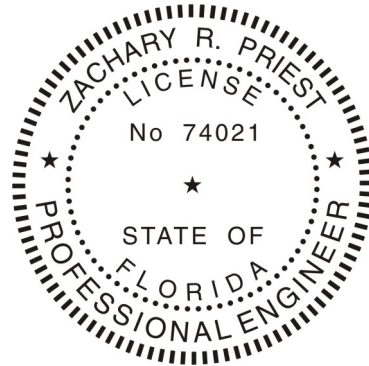
Maximum Design Pressure: -52.5 psf

LIMITATIONS

- 1) Fire Classification is not within the scope of this evaluation.
- 2) Roof slope limitations shall be in accordance with FBC requirements.
- 3) 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.
- 4) Products described within this report may be used as described in other current FBC product approval documents.
- 5) Roof coverings shall not be adhered directly to the underlayment unless otherwise approved in this or other current FBC product approval documents.
- 6) 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, 6th Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.



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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.

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END OF REPORT