



EVALUATION REPORT

FLORIDA BUILDING CODE, 6TH EDITION (2017)

Manufacturer: OWENS CORNING ROOFING AND ASPHALT LLC *Issued October 11, 2017*
1 Owens Corning Parkway
Toledo, OH 43657
(800) 438-7465
www.owenscorning.com

Manufacturing Location: Brentwood, NH
Houston, TX

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Sections: 1504.3.1, 1507.1.1
Properties: Physical properties

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	NEI-039-02-01	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	NEI-042-02-01REV2	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	NEI-045-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST5878)	NEI-045-02-01	ASTM G 155	2005a
PRI Construction Materials Technologies (TST5878)	NEI-053-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST5878)	NEI-053-02-01	ASTM G 155	2005a
PRI Construction Materials Technologies (TST5878)	NEI-093-02-02	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	OCF-213-02-01	ASTM D 1623	2009
PRI Construction Materials Technologies (TST5878)	OCF-237-02-01	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	OCF-252-02-01	ASTM D 4798	2001
PRI Construction Materials Technologies (TST5878)	OCF-252-02-01	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	OCF-253-02-02	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	OCF-272-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST5878)	OCF-296-02-02	ICC-ES AC 188 ¹	2012
		ICC-ES AC 48	2012
PRI Construction Materials Technologies (TST5878)	OCF-297-02-01.1	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	OCF-318-02-01	ASTM D 1970	2015
PRI Construction Materials Technologies (TST5878)	OCF-320-02-01	TAS 103	1995
PRI Construction Materials Technologies (TST5878)	OCF-320-02-01	ASTM G 155	2005a
PRI Construction Materials Technologies (TST5878)	OCF-321-02-01	ASTM D 1623	2009
PRI Construction Materials Technologies (TST5878)	OCF-322-02-01	UL 1897	2012
PRI Construction Materials Technologies (TST5878)	OCF-355-02-01	UL 1897	2012

¹Determined to be equivalent to ASTM D 226-09, Type I and II

PRODUCT DESCRIPTION AND LIMITS OF USE

WeatherLock® G
(Brentwood, NH)

WeatherLock® G is an ASTM D 1970 self-adhesive underlayment constructed from SBS modified asphalt, a fiberglass mat reinforcement and surfaced with granules. The product is supplied in 2-sq. rolls with nominal dimensions of 3-ft x 66.7-ft.

WeatherLock® G is permitted to be used as prescribed in FBC Section 1507.1.1 for mechanically attached roofing coverings. Exposure on the roof deck shall be limited to a maximum 30 days.

WeatherLock® Mat
(Brentwood, NH or
Houston, TX)

WeatherLock® Mat is an ASTM D 1970 self-adhesive underlayment constructed from SBS modified asphalt with a fiberglass mat reinforcement. The product is supplied in 1-sq. rolls with nominal dimensions of 3-ft x 33.3-ft and 2 sq. rolls with nominal dimensions of 3-ft x 66.7-ft.

WeatherLock® Mat is permitted to be used as prescribed in FBC Section 1507.1.1 for mechanically attached roof coverings. Exposure on the roof deck shall be limited to a maximum 30 days.

WeatherLock® Metal
(Brentwood, NH)

WeatherLock® Metal is an ASTM D 1970 self-adhesive underlayment constructed from SBS modified asphalt with a fiberglass mat reinforcement and plastic film surface. The product is supplied in 2.0 sq. rolls with nominal dimensions of 3-ft x 66.7-ft.

WeatherLock® Metal is permitted to be used as prescribed in FBC Section 1507.1.1 for mechanically attached roof coverings. Exposure on the roof deck shall be limited to a maximum 90 days.

**WeatherLock®
Specialty Tile & Metal**
(Brentwood, NH or
Houston, TX)

WeatherLock® Specialty Tile & Metal is an ASTM D 1970 self-adhesive underlayment constructed from SBS modified asphalt and surfaced with a non-woven polyester fabric. The product is supplied in 2.14 sq. rolls with nominal dimensions of 3-ft x 71.3-ft.

WeatherLock® Specialty Tile & Metal is permitted to be used as prescribed in FBC Section 1507.1.1. WeatherLock® Specialty Tile & Metal is permitted to be used with adhered clay or concrete tile roofing using either ICP Adhesives Polyset AH-160 (ICP Adhesives and Sealants, Inc.) or TILE BOND™ Roof Tile Adhesive (The Dow Chemical Company). Exposure on the roof deck shall be limited to a maximum 90 days.

The maximum roof slope shall be 6:12 when used with clay or concrete tile installations without battens. Tile shall be stored on battens for roof slopes greater than 6:12. Tiles shall not be stacked greater 10 tiles per stack.

**WeatherLock® G (High
Tear)**
(Houston, TX)

WeatherLock® G (High Tear) is a self-adhered, underlayment used as an alternative to ASTM D 226, Type I or Type II roofing felt and ASTM D 1970 self-adhering polymer modified bitumen underlayment. The underlayment is composed of SBS modified asphalt with a fiberglass mat internal reinforcement and is surfaced with granules. The product is supplied with a nominal thickness of 50 mils in 1.95-sq rolls with nominal dimensions of 3-ft x 65-ft.

WeatherLock® G (High Tear) is permitted to be used as prescribed in FBC Section 1507.1.1 for mechanically attached roof coverings. Exposure on the roof deck shall be limited to a maximum 30 days.

PRODUCT APPLICATION

Min. Roof Slope: 2:12 in accordance with the FBC

Application: *All underlayments shall be installed in accordance with the FBC.*

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. Prior to beginning installation, the underlayment shall be unrolled and allowed to relax for a minimum of 3-5 minutes.

The underlayment shall be installed with the release backer removed and pressed firmly into place to ensure complete contact with the deck. The underlayment shall be installed with the roll length parallel to the eave, starting at the eave, and with minimum 3" side laps and minimum 6" end laps staggered min. 6-ft. from preceding course. Additionally, if applying WeatherLock® Specialty Tile & Metal, end laps shall be primed with ASTM D 41 primer or sealed with asphalt roof cement a minimum of 3-4 inches across the width of the lap.

It is permissible to back nail the underlayment 12-inches on-center as needed (nails shall be installed perpendicular to deck with the nail heads flush to the top surface of the underlayment). Additionally, WeatherLock® Specialty Tile & Metal shall be back nailed when installed on roof slopes greater than 3:12.

Min. Application Temperature: 40°F; *Contact the manufacturer when installing at temperatures below the minimum application temperature.*

WIND RESISTANCE

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

Underlayment System No.1 – WeatherLock Specialty Tile & Metal Only

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

Underlayment: **WeatherLock® Specialty Tile & Metal** shall be applied in accordance with manufacturer's installation instructions to the fastened deck and backnailed along the selvage with minimum 12ga., 1-1/4-inch galvanized ring shank roofing nails through *optionally primed*, 32ga. x 1-5/8-inch Ø tin caps spaced 12" o.c. The applied underlayment shall be rolled with a minimum 75lb steel roller immediately following application.

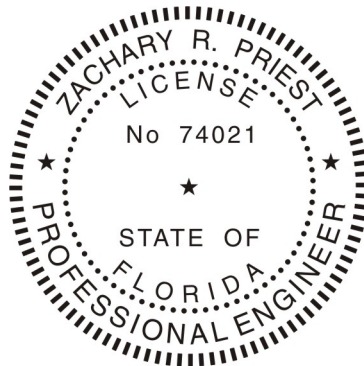
Maximum Design Pressure: -142.5 psf

GENERAL LIMITATIONS

- 1) This evaluation report is not use in the HVHZ.
- 2) Fire Classification is not within the scope of this evaluation.
- 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) The roof deck shall be constructed of closely fitted plywood sheathing for new or existing construction.
- 5) The space under the deck area shall be properly ventilated in accordance with the FBC requirements.
- 6) All side lap seams shall be installed to shed water from the deck.
- 7) The underlayment may be used as described in other current FBC product approval documents.
- 8) Design wind load pressures shall be determined for components and cladding in accordance with FBC 1609.
- 9) The roof deck shall be designed by others in accordance with FBC requirements to resist the design wind load pressures for components and cladding.
- 10) *Maximum Design Pressures* for a given underlayment shall meet or exceed the design wind loads determined for the roof assembly.
- 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 6th Edition (2017) as evidenced in the referenced documents submitted by the named manufacturer.



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