CREEK
TECHNICAL SERVICES, LLC

Certificate of Authorization No. 29824
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EVALUATION REPORT

FLORIDA BUILDING CODE 7TH EDITION (2020)

Issued August 3, 2020

Manufacturer: ALPHA PROTECH ENGINEERED PRODUCTS, INC.
301 South Blanchard Street
Valdosta, GA 31601
(229) 242-1931
http://www.alphaprotech.com

Manufacturing Locations: Valdosta, GA

Quality Assurance: RADCO, Inc. (QUA1990)

SCOPE

Category: Roofing
Subcategory: Underlayments
Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1507.1.1, 1518.2, 1518.4
Properties: Physical properties

REFERENCES

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	AEP-009-02-01	ASTM D 4533	2015
PRI Construction Materials Technologies (TST5878)	AEP-017-02-01	ASTM D 226	2009
		ASTM D 4869	2016
PRI Construction Materials Technologies (TST5878)	AEP-022-02-01	ASTM D 4533	2015
PRI Construction Materials Technologies (TST5878)	AEP-023-02-01	ASTM D 4533	2015
		ASTM D 226	2009
		ASTM D 4869	2016
PRI Construction Materials Technologies (TST5878)	AEP-023-02-02	ASTM D 5034	1995
PRI Construction Materials Technologies (TST5878)	20T0001	ASTM D 4533	2015
		ASTM D 226	2009
PRI Construction Materials Technologies (TST5878)	20T0002	ASTM D 4533	2015
		ASTM D 226	2009
PRI Construction Materials Technologies (TST5878)	20T0003	AC 188	2012
PRI Construction Materials Technologies (TST5878)	20T0004	AC 188	2012
PRI Construction Materials Technologies (TST5878)	20T0006	ASTM D 226	2009
PRI Construction Materials Technologies (TST5878)	20T0007	ASTM D 226	2009
PRI Construction Materials Technologies (TST5878)	20T0008	ASTM D 5035	2011(2019)
		ASTM D 4869	2016
RADCO, Inc (TST1987)	RAD-5212	AC 188	2012
RADCO, Inc (TST1987)	RAD-4987	ASTM D 4533	2015
Ramtech Laboratories, Inc. (TST6127)	13075-04-08	AC 188	2012

PRODUCT DESCRIPTION

REX™ SynFelt	A mechanically attached, woven polypropylene underlayment (nominal weight = 2.56 lb/100ft^{t2}) used an alternative to ASTM D 226, Type I and 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.
TECHNOply	A mechanically attached, woven polypropylene underlayment (nominal weight = 2.05 lb/100ft^2) used an alternative to ASTM D 226, Type I and 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.
TECHNO SB 25	A mechanically attached, woven polypropylene underlayment (nominal weight = 2.2 lb/100ft^2) used an alternative to ASTM D 226, Type I and Type II and ASTM D 4869, Type II and IV 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.
TECHNO SB 50	A mechanically attached, woven polypropylene underlayment (nominal weight = 2.00 lb/100ft^2) used an alternative to ASTM D 226, Type I and Type II and ASTM D 4869, Type II and IV 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.
TECHNO SB Ultra	A mechanically attached, woven polypropylene underlayment (nominal weight = 5.5 lb/100ft^2) used an alternative to ASTM D 226, Type I and Type II and ASTM D 4869, Type II and IV 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.

APPLICATION INSTRUCTIONS

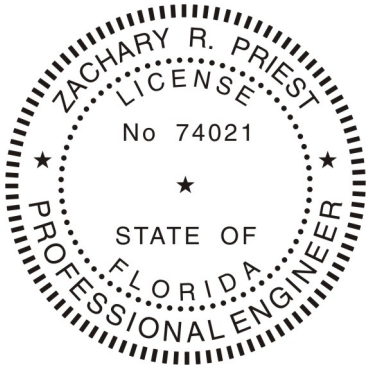
Deck Type:	The roof deck shall be constructed of closely fitted, solid sheathing for new or existing construction. New construction in the HVHZ shall be min. 19/32 in. plywood. Sheathing shall be installed in accordance with FBC requirements. Roof decks shall have no more than 1/8" gap at abutting joints.
Attachment method: (Non-HVHZ):	Underlayment shall be attached in accordance with the FBC Section 1507.1.1, Table 1507.1.1.1 and manufacturer's installation instructions
Attachment method (HVHZ):	Underlayment shall be installed with a minimum 4-inch head lap and minimum 6-inch end lap and be fastened as specified in FBC Section 1518.2.
Allowable roof coverings: (Non-HVHZ)	Mechanically attached roof systems as prescribed in FBC Table 1507.1.1.1.
Allowable roof coverings: (HVHZ)	Mechanically attached asphalt shingles, composite shingles, metal roof panels and shingles, or wood shakes and shingles

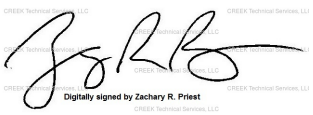
LIMITATIONS

1) Fire Classification is not within the scope of this evaluation.
2) Wind uplift resistance 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) 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.
5) The roof deck shall be constructed of closely fitted sheathing for new or existing construction. Roof deck shall be installed in accordance with FBC requirements.
6) Roof slope limitations shall be in accordance with FBC requirements.
7) All underlayments shall be installed with the roll length parallel to the eave, starting at the eave, and lapped in success courses installed up the deck in a manner that effectively sheds water from the deck. End laps shall be staggered between courses in accordance with the manufacturer's application instructions.
8) 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) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.





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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