



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: PROTECTO WRAP COMPANY
1955 S. Cherokee Street
Denver, CO 80223
(800) 759-9727
www.protectowrap.com

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Manufacturing Plants: Denver, CO

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing
Subcategory: Waterproofing
Code Edition: Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1515.1.1, 1523.6.2
Properties: Wind Resistance, Physical Properties

PRODUCT DESCRIPTION

Products	Specification	Description
Protecto Wrap Protecto Deck	ASTM D 5147 ANSI A118.10	A cold applied, 60 mil, self-adhering waterproofing membrane composed of an anti-fungal fabric top sheet and an internal reinforcement

REFERENCES

Entity	Report No.	Standard	Year
Intertek Testing Services NA, Inc. (TST6781)	103443843MID-001	ASTM E 108	2017
PRI Construction Materials Technologies (TST5878)	PWC-010-02-01	ANSI A118.10	2008
PRI Construction Materials Technologies (TST5878)	PWC-010-02-03	FM 4474(D)	2011
		TAS 114(J)	2011
PRI Construction Materials Technologies (TST5878)	PWC-010-02-04	FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	PWC-010-02-05	ASTM D5147/D5147M	2014

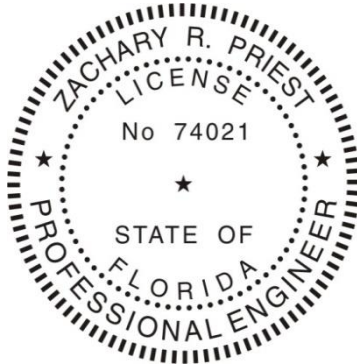
LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. The roof deck and the roof deck attachment information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
3. Installation of the evaluated products 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 minimum roof slope shall be 1/4:12 for new construction.
5. The AHJ may require integrity flood testing (ASTM D 5957) or Electric Field Vector Mapping tests of all waterproofing systems prior to placement of the overburden material. Testing, if required, should be conducted by a qualified design professional. In the HVHZ, the waterproofing system shall be flood tested in accordance with Section 1519.16.6.
6. All products listed in this report shall be manufactured under a quality assurance programs in compliance with Rule 61G20-3.
7. For assemblies containing mechanical attachment, the allowable uplift pressure for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. For perimeter and corner roof zones 2 and 3, the attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in these areas. In the HVHZ, calculations shall be conducted in compliance with RAS 117 and/or RAS 137. Outside the HVHZ, commonly used standards include RAS 117, FM LPDS 1-29, or ANSI/SPRI WD-1.
8. Reroofing applications shall be examined in accordance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ. For mechanically fastened systems, a field withdrawal resistance test (TAS 105 in the HVHZ; ANSI/SPRI FX-1 or TAS 105 in the non-HVHZ) shall be conducted by a qualified professional to ensure the fastener meets the minimum design load requirements of the system. For adhered systems, a field uplift resistance test (TAS 124 in the HVHZ; ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS 124 in the non-HVHZ) shall be conducted to confirm conformance of the existing to the minimum design loads.
9. For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the roof system is not permitted, the *MDP* for the selected roof system shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.



COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 8th Edition (2023) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 1/17/2024.

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must be verified on any
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Digitally signed by Zachary R. Priest
CREEK Technical Services, LLC

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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.

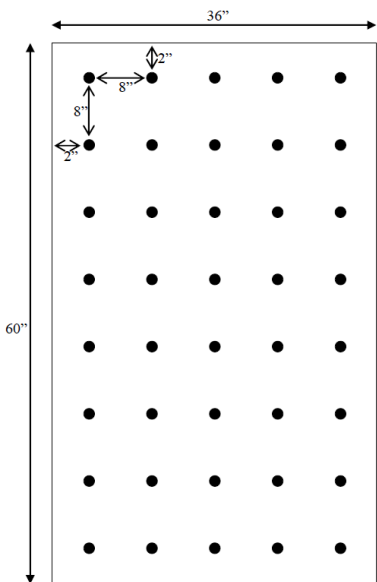
APPENDICES

- 1) APPENDIX A – Installation, Nomenclature and Approved Assemblies (2 pages)

INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report for specific installation details of a selected assembly.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Component	Product	Installation Detail
Primer	Protecto Wrap BT Primer	Applied at a rate of 200 ft ² /gal
Cover Board	National Gypsum PermaBase Cement Board	Min. 1/2-inch thick; Attached with min. 1-5/8" Type S-12 screws at a rate of 40 fasteners per 3-ft x 5-ft board as shown below. 
Base Sheet	Protecto Wrap Protecto Deck	Min. 3-inch self-adhered side laps
Mortar	Custom Building Products Pro Lite Mortar	Applied with 1/4" x 1/4" x 1/4" square notch trowel

NOMENCLATURE

The following naming conventions are utilized to specify products in the [APPROVED ASSEMBLIES](#) section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected assembly. Installation requirements shall be as noted in the [APPROVED ASSEMBLIES](#) and [INSTALLATION](#) section of this report.

Name	Definition
Concrete Deck	Designed by others in accordance with FBC requirements; Min. $f'_c = 2,500$ psi at 28 days
MDP	Maximum Design Pressure
Wood Deck	APA Span-Rated sheathing. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	$T<\#>$ Min. $<\#>$ -inch thickness of the plywood
	$L<\#>$ Max. span of $<\#>$ inches
	$N<\#1>/<\#2>$ Min. 0.113-inch diameter x 2-3/8-inch ring shank nails spaced $<\#1>$ -inch o.c. at all intermediate supports and spaced $<\#2>$ at the perimeter of each board

APPROVED ASSEMBLIES

The following notes shall be observed when using the waterproofing systems from the tables below.

1. *MDPs* were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to [LIMITATIONS](#) and [NOMENCLATURE](#) section of this evaluation when using the table(s) below.
3. Refer to [INSTALLATION](#) section of this report for installation detail when the information is not explicitly stated for the selected roof system.

Assemblies with Adhered Membranes over <i>Concrete Deck</i> (New or Existing)			
Deck Detail	Waterproofing Base Sheet	Overburden	<i>MDP</i> (psf)
Min. 2500 psi <i>Concrete Deck</i>	Protecto Deck; Self-adhered to deck primed with BT Primer	Min. 6" x 6" ANSI A137.1 Ceramic Tile adhered in Custom Building Products Pro Lite Mortar	-502.5 (Lim. 9)

Assemblies with Adhered Membranes over <i>Wood Deck</i> (New or Existing)					
Deck Detail	Thermal Barrier	Thermal Barrier Attachment	Waterproofing Base Sheet	Overburden	<i>MDP</i> (psf)
<i>T19/32, L24, N6/6</i>	PermaBase Cement Board primed with BT Primer	1-5/8" Type S-12 screws secured at a rate of 40 fasteners per 3-ft x 5-ft board	Protecto Deck; Self-adhered	Min. 6" x 6" ANSI A137.1 Ceramic Tile adhered in Custom Building Products Pro Lite Mortar	-60 (Lim. 7)

END OF REPORT