CREEK
TECHNICAL SERVICES, LLC

Registry No. 29824
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE 9TH EDITION (2026)

Issued August 17, 2026

Manufacturer: CertainTeed LLC
20 Moores Road
Malvern, PA
(617) 498-4303
www.gcpat.com

Quality Assurance: NEMO Cert, LLC (QUA12361)

SCOPE

Category: Roofing
Subcategory: Waterproofing
Code Edition: Florida Building Code, 9th Edition (2026) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1507.15.2, 1515.1.1, 1515.1.4, 1523.1.1, 1523.6.2, 1523.6.3
Properties: Wind Resistance, Physical Properties

REFERENCES

Entity	Report No.	Standard	Year
Nemo| Etc LLC (TST6049)	4q-CTR-21-SSMBB-02.E	ASTM D6163	2021
Nemo| Etc LLC (TST6049)	4q-CTR-21-SSMBB-04.H	ASTM D4601	2004(2021)
PRI Construction Materials Technologies (TST5878)	256T0385	CAN/CGSB-37.50-M89	1989
PRI Construction Materials Technologies (TST5878)	975T0165	TAS 114(D)	2011
		ANSI/FM 4474(B)	2020
PRI Construction Materials Technologies (TST5878)	975T0165.1	TAS 114(D)	2011
		ANSI/FM 4474(B)	2020
PRI Construction Materials Technologies (TST5878)	975T0175	Physical Properties	-

PRODUCT DESCRIPTION & APPLICATION

BITUTHENE® HRA Waterproofing Components			
Use	Product	Nomenclature	Description and Application
Deck	Primed Concrete	*Primed Concrete*	Min. f'_c = 2,500 psi at 28 days; Primed with BITUTHENE® Adhesive Primer B2 LVC at a rate of 900ft^2/gal
Waterproofing Membrane	BITUTHENE® HRA	*HRA*	CAN/CGSB-37.50-M89 hot applied, rubberized asphalt waterproofing membrane; Base layer applied at a rate of 18ft^2/gal with BITUTHENE® HRA Fabric set while still hot followed by a top layer applied at a rate of 13ft^2/gal to fully encapsulate the fabric
Protection Course	BITHUTHENE® HRA PROTECTION G	*PCG*	Sanded-surfaced SBS modified bitumen sheet reinforced with an embedded fiberglass mat set hot top layer of BUTUTHENE® HRA
	BITHUTHENE® HRA PROTECTION P	*PCP*	Sanded-surfaced SBS modified bitumen sheet reinforced with an embedded polyester mat set hot top layer of BUTUTHENE® HRA

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APPROVED SYSTEMS

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

1. *Maximum Design Pressure*s were calculated using a 2:1 margin of safety per FBC Section 1504.9 and 1523.4.
2. Refer to **LIMITATIONS** section of this evaluation when using the table(s) below.
3. Refer to **PRODUCT DESCRIPTION & APPLICATION** section of this report for installation detail when the information is not explicitly stated for the selected roof system.
4. Overburden of waterproofing assembly with exterior elements, such as soil, concrete slab, independent exterior elevated flooring systems, etc., that do not form a part of the load path shall be *Approved* separate from this evaluation by the Authority Having Jurisdiction.

Assemblies with Adhered Membranes over *Primed Concrete* Deck (New or Existing)				
System No.	Waterproofing	Protection Course	Overburden	Max. Design Pressure (psf)
H1	*HRA*	*PCG* or *PCP*	See note 4	**N/A**
H2	*HRA*	*PCG*	Min. 12-inch x 12-inch x 1-inch concrete pavers set in 1-inch thick bed of ASTM C270 Type M mortar	**-502.5**
H3	*HRA*	*PCP*	Min. 12-inch x 12-inch x 1-inch concrete pavers set in 1-inch thick bed of ASTM C270 Type M mortar	**-502.5**

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LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
3. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.4 and 2603.6.
4. In the HVHZ, fastener spacing for insulation attachment is determined using a Minimum Characteristic Force (F') of 275 lbf as demonstrated via testing to TAS 105. If the field tested fastener value is below 275 lbf, then insulation attachment shall not be acceptable.
5. In the HVHZ, fastener spacing for base sheets or membrane attachment shall meet the minimum fastener resistance value and the *MDP* for the specified roof system. It is permissible for a qualified professional to submit a revised fastener spacing utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137, when the fastener resistance is found less than required.
6. In the HVHZ, if mechanical attachment through the lightweight insulating concrete to the structural deck is proposed, a field fastener withdrawal test shall be conducted in compliance with TAS 105 to determine equivalent or increased attachment densities. Revised fastener densities shall be submitted utilizing the withdrawal resistance value obtained from TAS 105 testing and calculations performed in accordance with RAS 117 and/or RAS 137.
7. **HVHZ:** For assemblies containing mechanical attachment, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117 and/or RAS 137.
   Non-HVHZ: For assemblies containing mechanical attachment or adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with RAS 117, RAS 137, or Section 2.2.10.1 FM LPDS 1-29 (February 2020).
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. **HVHZ:** For assemblies containing fully adhered or ribbon adhered attachment, or where extrapolation of the assembly is not permitted, the *MDP* for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16 without augmentation.
   Non-HVHZ: For assemblies adhered in ribbon-applied adhesive, the allowable uplift pressure for the selected assembly shall meet or exceed the minimum design loads as determined in accordance with the FBC Chapter 16. The attachment density may be increased by a qualified design professional, as necessary, to meet the design pressure requirements in the periphery zones. Calculations shall be conducted in compliance with Section 2.2.10.1 FM LPDS 1-29 (July 2022).
10. 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.
11. The minimum roof slope shall be in accordance with FBC requirements.
12. The AHJ may require integrity flood testing (ASTM D 5957) or Electric Field Vector Mapping testes 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.
13. Materials shall conform to FBC Section 1711 as well as FBC Section 1506 outside of the HVHZ and FBC Section 1517 within the HVHZ.
14. FBC Section 1504.3.1.1 is not within the scope of this evaluation.
15. All products listed in this report shall be manufactured under a quality assurance programs in compliance with Rule 61G20-3.

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COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.

This item has been digitally signed and sealed by Zachary R. Priest, PE, on 8/17/2026.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by Zachary R. Priest
2026.08.17 16:38:23 -04'00'

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

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