



EVALUATION REPORT

FLORIDA BUILDING CODE 8TH EDITION (2023)

Manufacturer: W. R. Meadows, Inc.
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Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Waterproofing
Code Edition: Florida Building Code, 8th Edition (2023) 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
PRI Construction Materials Technologies (TST5878)	2274T0013	ASTM C 836	2018
PRI Construction Materials Technologies (TST5878)	2274T0014	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	2274T0007	CAN/CGSB-37.50-M89	1989
PRI Construction Materials Technologies (TST5878)	2274T0021	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	1655T0009	ASTM D 6163	2016

PRODUCT DESCRIPTION & APPLICATION

HRM 714 Waterproofing Components			
Use	Product	Nomenclature	Description
Deck	Primed Concrete	<i>Primed Concrete</i>	Min. $f'_c = 2,500$ psi at 28 days; Primed with ASTM D41 at a rate of 100ft ² /gal
Waterproofing Membrane	HRM 714	<i>714</i>	CAN/CGSB-37.50-M89 hot applied, rubberized asphalt waterproofing membrane; Applied at a minimum rate of 0.72lb/ft ²
Protection Course	PC2R Protection Course	<i>PC2R</i>	ASTM D6163, Type I, smooth surfaced SBS modified bitumen sheet reinforced with an embedded fiberglass mat

HYDRALASTIC 836 SL Waterproofing Components			
Use	Product	Nomenclature	Description
Deck	Concrete	<i>Concrete</i>	Min. 2500 psi
Waterproofing Membrane	Hydralastic 836 SL	<i>836SL</i>	ASTM C 836 cold applied, elastomeric waterproofing membrane; Applied at a minimum rate of 26ft ² /gal

APPROVED SYSTEMS

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

1. *Maximum Design Pressures* 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.

HRM 714 Assemblies with Adhered Membranes over <i>Primed Concrete Deck</i> (New or Existing)				
System No.	Waterproofing	Protection Course	Overburden	Max. Design Pressure (psf)
H1	714 ¹	PC2R set in hot 714	Min. 2500 psi structural concrete slab complying with the requirements of the FBC	N/A
H2	714 ¹	PC2R set in hot 714	Drainage medium followed by min. 24-inch deep soil medium	N/A

Note(s): 1) Maximum design pressure for the uncovered waterproofing system is -343psf. The waterproofing system is only approved as stated above. This information is provided for code compliance only.

HYDRALASTIC 836 SL Assemblies with Adhered Membranes over <i>Concrete Deck</i> (New or Existing)			
System No.	Waterproofing	Overburden	Max. Design Pressure (psf)
C1	836SL ¹	Min. 2500 psi structural concrete slab complying with the requirements of the FBC	N/A
C2	836SL ¹	Drainage medium followed by min. 24-inch deep soil medium	N/A

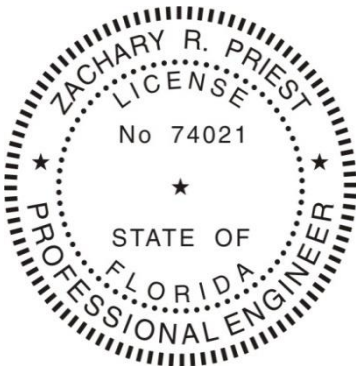
Note(s): 1) Maximum design pressure for the uncovered waterproofing system is -502.5psf. The waterproofing system is only approved as stated above. This information is provided for code compliance only.

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. All products listed in this report shall be manufactured under a quality assurance programs in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

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



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CERTIFICATION OF INDEPENDENCE

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END OF REPORT