



EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: THE BARRETT COMPANY
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Quality Assurance: IAPMO Quality Control Consultants, LLC (QUA10385)

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, 1519.16, 1523.1.1
Properties: Wind Resistance

REFERENCES

Entity	Report No.	Standards (Year)
FM Approvals (TST1867)	3048085	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	PR463878	FM 4470 (2016)
PRI Construction Materials Technologies (TST5878)	KPS-006-02-01	ASTM C 794 (2001); ASTM D 570 (98(2010)e1); ASTM D 635 (2018); ASTM D 903 (1998(2010)); ASTM D 1929 (2016); ASTM D 2240 (2015); ASTM D 2843 (2016); ASTM D 4073 (2006(2013)); ASTM D 4798 (2011); ASTM D 5147 (2014); ASTM D 5602 (2011); ASTM D 5869 (2007a(2013)); ASTM D 7264 (2015); ASTM E 96 (2016)
PRI Construction Materials Technologies (TST5878)	1517T0001	ASTM C 297/C 297M (2016); ASTM D 903 (1998(2010)); TAS 117(A) (1995); TAS 117(B) (1995)
PRI Construction Materials Technologies (TST5878)	1517T0004	TAS 114(D) (2011); FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	1517T0006	TAS 114(J) (2011); FM 4474(D) (2011)

PRODUCT DESCRIPTIONS

Use	Products	Description
Primer	Ram Quick Flash PMMA Primer	A quick-curing, high bonding primer used between prepared substrates and KEMPEROL systems comprised of a two-component, cold liquid-applied Polymethyl Methacrylate (PMMA) resin consisting of Component A (resin) and Component B (catalyst powder).
Liquid Applied Membrane	Ram Quick Flash PMMA Membrane	Polymethyl Methacrylate (PMMA) membrane composed of Component A and Component B (Catalyst Powder) and reinforced with Ram Quick Flash PMMA Fleece or Ram Quick Flash P PMMA Fleece.
Reinforcements	Ram Quick Flash PMMA Fleece	120 g/m ² polyester fleece reinforcement.
	Ram Quick Flash P PMMA Fleece	



INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report within Appendix B for specific installation details of a selected roof system.

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

Component	Product	Installation Detail
Mortar	ANSI A118.1 Portland cement mortar	Applied with a 1/4-inch x 1/4-inch square notched trowel
	ASTM C 270, Type M mortar	Applied with a 1/2-inch x 1/2-inch square notched trowel
Primers	Ram Quick Flash PMMA Primer	Applied by combining Component A (resin) and Component B (Ram Quick Flash PMMA Catalyst at a 2% mix ratio). The 5kg Ram Quick Flash PMMA Primer work pack shall yield 125-ft ² of primer.
Liquid Applied Membrane	Ram Quick Flash PMMA Membrane	The liquid membrane is installed by combining Component A (resin) and Component B (Ram Quick Flash PMMA Catalyst at a 2% mix ratio), and applying 2/3 rd of the mixture as the base coat. One ply of Ram Quick Flash PMMA Fleece or Ram Quick Flash P PMMA Fleece is rolled into the wet base coat and the remaining the 1/3 rd of the Ram Quick Flash PMMA Membrane combined mixture is immediately applied to complete the membrane. The finished membrane shall fully encapsulate the Fleece. Surfacing sand is broadcast in the wet top coat at a rate of 0.5lbs/ft ² . The 15kg Ram Quick Flash PMMA Membrane work pack shall yield 60-ft ² of installed membrane.

NOMENCLATURE

Name	Definition	
<i>As Tested</i>	Information provided to the report user based on the as tested condition of the roof system	
<i>Deck Detail</i>	<i>As Tested</i> deck construction details are described as follows:	
	<i>Concrete Deck</i>	Min. f'_c = 2,500 psi at 28 days
	<i>Wood Deck</i>	Min. 19/32-inch thick, 40/20 span-rated, CDX plywood sheathing. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	$T<\#>P$	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. *Maximum Design Pressures (MDP)* were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to **LIMITATIONS** 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.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. *As Tested* information for roof deck construction is provided for information only. The addition of the *As Tested* deck information does not obviate the requirement for rational design of the roof deck and roof deck attachment in accordance with FBC requirements.
6. 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. The *MDP* given is for the wind uplift performance of the waterproofing assembly only.

Assemblies over Concrete Deck (New or Existing)				
System No.	Deck Detail	Waterproofing System	Overburden	MDP (psf)
C-1	Min 2500 psi concrete primed with Ram Quick Flash PMMA Primer	Ram Quick Flash PMMA Membrane	See note 6 above	-502.5 (Lim. 9)
C-2	Min 2500 psi concrete primed with Ram Quick Flash PMMA Primer	Ram Quick Flash PMMA Membrane	Minimum 12" x 12" x 1/2" ANSI A137.1 ceramic tiles applied in ANSI A118.1 Portland Cement Mortar	-502.5 (Lim. 9)
C-3	Min 2500 psi concrete primed with Ram Quick Flash PMMA Primer	Ram Quick Flash PMMA Membrane	Minimum 12" x 12" x 2" concrete pavers applied in ASTM C 270, Type M Mortar	-502.5 (Lim. 9)

Assemblies over Wood Deck (New or Existing)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation or Cap Ply	Top Insulation or Cap Ply Attachment	Membrane and Primer	Overburden	MDP (psf)
W-1	T19/32P, L24, N6/6	OPTIONAL Insulation	-	DEXcell Cement Board or SECUROCK Cement Board	#12 Standard Roofgrip and 3" Galvalume Steel Plates installed at a rate of one per 1.78ft ²	Ram Quick Flash PMMA Membrane with Ram Quick Flash PMMA Primer	See note 6 above	-67.5 (Lim. 7)

Assemblies over <i>Wood Deck</i> (New or Existing)								
System No.	Deck Detail	Base Insulation or Base Sheet	Base Insulation or Base Sheet Attachment	Top Insulation or Cap Ply	Top Insulation or Cap Ply Attachment	Membrane and Primer	Overburden	MDP (psf)
W-2	T19/32P, L24, N6/6	OPTIONAL Insulation	-	DEXcell Cement Board or SECUROCK Cement Board	#12 Standard Roofgrip and 3" Galvalume Steel Plates installed at a rate of one per 1.78ft ²	Ram Quick Flash PMMA Membrane with Ram Quick Flash PMMA Primer	Minimum 12" x 12" x 1/2" ANSI A137.1 ceramic tiles applied in ANSI A118.1 Portland Cement Mortar or Minimum 12" x 12" x 2" concrete pavers applied in ASTM C 270, Type M Mortar	-67.5 (Lim. 7)

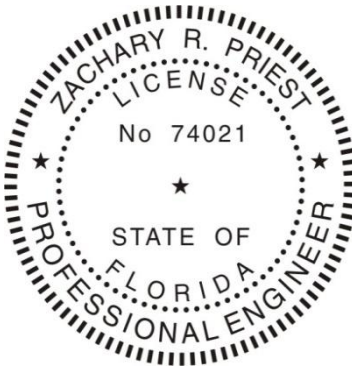


LIMITATIONS

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. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.4.1.5 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. 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.
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 1/4:12 for new construction.
12. 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.
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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Priest, PE, on 9/8/2025.

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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.

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END OF REPORT