



EVALUATION REPORT

FLORIDA BUILDING CODE 8TH EDITION (2023)

Manufacturer: HENRY® A CARLISLE COMPANY
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Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing
Subcategory: Waterproofing
Code Edition: Florida Building Code 8th Edition (2023) including the High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1504.6, 1504.7, 1515.1.1, 1515.1.4, 1523.1.1, 1523.6.2, 1523.6.3
Properties: Wind Resistance, Physical Properties, Foot-Traffic

PRODUCT DESCRIPTION & APPLICATION

Henry® Pumadeq™ Waterproofing Components		
Use	Product	Description and Application
Deck	Concrete	Min. $f'_c = 2,500$ psi at 28 days
Primer	Henry® Pumadeq™ Primer 20	Polymethyl methacrylate (PMMA) primer applied at a rate of 1.0 gal/100ft ²
	Henry® GC Epoxy Primer	Two-component, epoxy sealer/primer applied at a rate of 1.0 gal/100ft ² ; May be applied to "green" concrete (min. 5 day cure)
Waterproofing Membrane	Henry® Pumadeq™ Flex 30SL	Polyurethane-modified methyl methacrylate (PUMA), elastic waterproofing membrane; Mixed with Henry® Pumadeq™ Catalyst per manufacturer's instructions; Applied in two coats to a min. 50 mils for first application and a min. 30 mils for second application, for a total of 80 mil
Flashing	Henry® Pumadeq™ Flex 31MV	In accordance with the manufacturer's current application instructions
Surfacing	Henry® Pumadeq™ Grip 40	Polyurethane-modified methyl methacrylate (PUMA), elastic waterproofing membrane; Applied at 40 mils with silica sand (#20-50, #12 Silica, or NJ0-NJ00) broadcast to refusal. Remove excess sand prior to applying additional surfacings or overburden.
	Henry® Deqcoat 50	Polymethyl methacrylate (PMMA), top surfacing; Applied in two coats for a total of 32 mil (20 mil base coat followed by a 12 mil top coat)
Insulation	EPS	Min. 40 psi <i>approved</i> expanded polystyrene (EPS) foam insulation board
	Owens Corning Foamular 600 XPS	Min. 1-inch thickness; Min. 60 psi <i>approved</i> extruded polystyrene (XPS) rigid foam insulation board
	Owens Corning Foamular NGX 600 XPS	Min. 2-inch thickness; Min. 60 psi <i>approved</i> extruded polystyrene (XPS) rigid foam insulation board
Coverboard	USG SECUROCK Cement Roof Board	Min. 0.5-inch thickness; Min. 1,000psi cement roof board
Insulation/Coverboard adhesive	Carlisle SynTec Flexible FAST Dual Cartridge Adhesive	Two-component, low-rise polyurethane adhesive; Applied in 0.75-inch to 1-inch wide ribbons;

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 Sections 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 details for the given nomenclature.

Henry® Pumadeq™ Waterproofing Assemblies over Concrete Deck (New or Existing)						
System No.	Waterproofing System			Insulation	Overburden	Max. Design Pressure (psf)
	Primer	Waterproofing Membrane	Surfacing			
C-1	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	Pumadeq™ Grip 40	-	Greenrise Technologies's Concrete Wind Uplift Paver System ¹ adhered in 2.5 to 3.5oz of 3M 550 Polyurethane Adhesive Sealant per pedestal	-45 (Lim. 9)
C-2	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	-	-	-	-502.5 (Lim. 9)
C-3	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	Pumadeq™ Grip 40 followed by Deqcoat 50	-	-	-502.5 (Lim. 9)
C-4	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	Pumadeq™ Grip 40	-	Min. 6-inch x 6-inch ANSI A137.1 tile adhered in ANSI A118.10 thin-set mortar	-502.5 (Lim. 9)
C-5	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	Pumadeq™ Grip 40	-	Min. 12-inch x 12-inch x 1.5-inch concrete pavers adhered in ASTM C270, Type S mortar	-502.5 (Lim. 9)
C-6	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	OPTIONAL Pumadeq™ Grip 40	-	Min. 2500psi structural concrete	N/A
C-7	Pumadeq™ Primer 20 or GC Epoxy Primer	Pumadeq™ Flex 30SL	OPTIONAL Pumadeq™ Grip 40	EPS or Foamular 600 XPS	Min. 2500psi structural concrete	N/A

Note(s): 1. Greenrise Technologies's Concrete Wind Uplift Paver System is comprised of the following elements: 1) 24-inch x 24-inch x 2-inch thick Concrete Wind Uplift Pavers, 2) GRT Fixed Head Pedestals (7-inch diameter polypropylene head threaded into 8-inch diameter polypropylene supporting base) and 3) One (1) 3/16-inch x 1.5-inch diameter galvanized steel washer and one (1) #9 x 1-3/4-inch Type 305 SS wood screw placed at the intersection of the four (4) paver corners with the washer engaged into the prefabricated, hidden slot of the pavers and the screw anchored into the pedestal head.

Insulated Henry® Pumadeq™ Waterproofing Assemblies over Concrete Deck (New or Existing)						
System No.	Insulation	Coverboard	Waterproofing System		Overburden	Max. Design Pressure (psf)
			Primer	Waterproofing Membrane		
I-1	Min. 2-inch Owens Corning Foamular NGX 600 adhered with Carlilse SynTec Flexible FAST Dual Cartridge Adhesive applied in ribbons spaced 6-inch o.c.	Min. 0.5-inch USG SECUROCK Cement Roof Board adhered with Carlilse SynTec Flexible FAST Dual Cartridge Adhesive applied in ribbons spaced 6-inch o.c.	Pumadeq™ Primer 20	Pumadeq™ Flex 30SL	Greenrise Technologies's Concrete Wind Uplift Paver System ¹ adhered in Henry ST Primer applied in full coverage to the full bottomsides of the pedestal at a rate of 100ft ² /gal	-75 (Lim. 9)
I-2	Min. 2-inch Owens Corning Foamular NGX 600 adhered with Carlilse SynTec Flexible FAST Dual Cartridge Adhesive applied in ribbons spaced 6-inch o.c.	Min. 0.5-inch USG SECUROCK Cement Roof Board adhered with Carlilse SynTec Flexible FAST Dual Cartridge Adhesive applied in ribbons spaced 6-inch o.c.	Pumadeq™ Primer 20	Pumadeq™ Flex 30SL	Greenrise Technologies's Concrete Wind Uplift Paver System ¹ adhered in 3M Scotch-Weld Multi-Material Composite Urethane Adhesive DP6330NS applied at a minimum rate of 1.64 fl oz. per pedestal	-77.5 (Lim. 9)

Note(s): 1. Greenrise Technologies's Concrete Wind Uplift Paver System is comprised of the following elements: 1) 24-inch x 24-inch x 2-inch thick Concrete Wind Uplift Pavers, 2) GRT Fixed Head Pedestals (7-inch diameter polypropylene head threaded into 8-inch diameter polypropylene supporting base) and 3) One (1) 1/8-inch thick, 3/16-inch I.D. x 2.5-inch O.D. galvanized steel washer and one (1) #9 x 2.5-inch Type 305 SS cap head screw placed at the intersection of the four (4) paver corners with the washer engaged into the prefabricated, hidden slot of the pavers and the screw anchored into the pedestal head.

LIMITATIONS

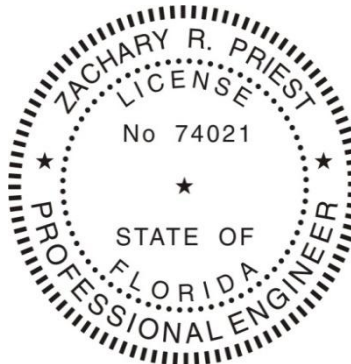
1. Fire classification is not within the scope of this evaluation.
2. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
3. Foam plastic insulation shall be installed 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. 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. Exterior elevated flooring systems listed in **APPROVED SYSTEMS** have been evaluated using ANSI/FM 4474 and TAS 114 for the uplift resistance of the overburden attachment only. Other requirements of section 3115 are not within the scope of this approval.
11. 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.
12. The minimum roof slope shall be in accordance with FBC requirements.
13. 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.
14. All products listed in this report shall be manufactured under a quality assurance programs in compliance with Rule 61G20-3.

REFERENCES

Entity	Report No.	Standard	Year
PRI Construction Materials Technologies (TST5878)	HGC-336-02-01	TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	447T0013	ANSI/FM 4474(B)	2011
		ASTM G155	2013
		ASTM D635	2014
		ASTM D2843	2016
		ASTM D1929	2016
		Physical properties	Various
PRI Construction Materials Technologies (TST5878)	447T0063	Physical properties	Various
PRI Construction Materials Technologies (TST5878)	447T0064	Physical properties	Various
PRI Construction Materials Technologies (TST5878)	447T0065	Physical properties	Various
PRI Construction Materials Technologies (TST5878)	447T0071	Physical properties	Various
PRI Construction Materials Technologies (TST5878)	447T0139	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	447T0147	ASTM E 2322	2003(2015)
PRI Construction Materials Technologies (TST5878)	447T0148	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	447T0211.1-1	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	447T0211.2-1	TAS 114(D)	2011
		ANSI/FM 4474(B)	2011
PRI Construction Materials Technologies (TST5878)	447T0214	ASTM E 2322	2003(2015)
PRI Construction Materials Technologies (TST5878)	447T0214.1	FM 4470	2016
PRI Construction Materials Technologies (TST5878)	447A0003	Physical properties	Various

COMPLIANCE STATEMENT

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



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END OF REPORT