



EVALUATION REPORT

FLORIDA BUILDING CODE, 9TH EDITION (2026)

Manufacturer: KEMPER SYSTEM AMERICA INC.
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Quality Assurance: FM Approvals (QUA1860)

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, 1519.16, 1523.1.1
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standards (Year)</u>
FM Approvals (TST1867)	3024195	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	3027446	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	3031405	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	3039130	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	3048085	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	3053219	FM 4470 (2022); FM 4474 (2020)
FM Approvals (TST1867)	PR463878	FM 4470 (2022)
PRI Construction Materials Technologies (TST5878)	KPS-001-02-01	ASTM C 836 (2018); ASTM C 957 (2017); ASTM D 5147; TAS 110 (2000)
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 (2020); ASTM D 2240 (2015); ASTM D 2843 (2019); 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)	KPS-007-02-01	ASTM C 836 (2018); ASTM C 957 (2017); ASTM C 1305 (2016); ASTM D 570 (98(2010)e1); ASTM D 573 (2004(2015)); ASTM D 751 (2006(2011)); ASTM D 4073 (2006(2013)); ASTM D 4798 (2011); ASTM D 5147 (2014); ASTM D 5602 (2011); ASTM E 96 (2024a)
PRI Construction Materials Technologies (TST5878)	KPS-008-02-01	ASTM D 70 (2009e1), ASTM D 562 (2010(2014)); ASTM D 1475 (2013); ASTM D 2196 (2015); ASTM D 2240 (2015)
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)	1517T0002	ASTM D 93 (2020); ASTM D 562 (2010(2014)); ASTM D 1475(2013); ASTM D 1644 (2001(2017))
PRI Construction Materials Technologies (TST5878)	1517T0004	TAS 114(D) (2011); FM 4474(B) (2020)
PRI Construction Materials Technologies (TST5878)	1517T0006	TAS 114(J) (2011); FM 4474(D) (2020)
PRI Construction Materials Technologies (TST5878)	1517T0013	ASTM D 903 (1998(2010)); TAS 117(B) (1995)
Trinity ERD (TST6049)	U05620.01.07-R2	TAS 114(J) (2011); FM 4474(D) (2020)



PRODUCT DESCRIPTIONS

Use	Products	Description
Alkalinity Block	Kempertec EP5 Primer	High bonding primer used between prepared substrates and KEMPEROL systems comprised of a solvent free, two-component, cold applied liquid epoxy resin.
	Kempertec EP Primer	
Primer	Kempertec AC 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).
	Kempertec EP5 Primer	High bonding primer used between prepared substrates and KEMPEROL systems comprised of a solvent free, two-component, cold applied liquid epoxy resin.
	Kempertec EP Primer	
Liquid Applied Membrane	Kemperol Reflect 2K FR	Two-component, solvent-free, liquid-applied, reinforced, polyurethane resin membrane is composed of Component A and Component B, and reinforced with Kemperol 165 Fleece or Kemperol Premium 165 Fleece.
	Kemperol 2K-PUR	Two-component, solvent-free, liquid-applied, reinforced, polyurethane resin membrane is composed of Component A and Component B, and reinforced with Kemperol 165 Fleece or Kemperol Premium 165 Fleece.
	Kemperol AC Speed FR	Polymethyl Methacrylate (PMMA) membrane composed of Component A and Component B (Catalyst Powder) and reinforced with Kemperol 120 Fleece or Kemperol Premium 120 Fleece.
Reinforcements	Kemperol 120 Fleece	120 g/m ² polyester fleece reinforcement.
	Kemperol Premium 120 Fleece	
	Kemperol 165 Fleece	165 g/m ² polyester fleece reinforcement.
	Kemperol Premium 165 Fleece	
	Kemperol Reinforcement Strip	Minimum 4-inch wide, 0.15 oz./ft ² polyester polyester fabric.

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
Alkalinity Block	Kempertec EP5 Primer	Mixed a ratio of 2.33:1 (Component A:Component B) and applied at a rate of 0.6-0.8 gal/100-ft ² with 0.5 lb/100ft ² of surfacing sand broadcast into the wet primer at a rate of 0.5 lb/ft ² . The 5kg Kempertec EP and EP5 Primer work pack shall yield 85-ft ² of primer.
	Kempertec EP Primer	
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	Kempertec AC Primer	Applied by combining Component A (resin) and Component B (Kemperol CP Catalyst Powder at a 2% mix ratio). The 5kg Kempertec AC Primer work pack shall yield 125-ft ² of primer.
	Kempertec EP5 Primer	Mixed a ratio of 2.33:1 (Component A:Component B) and applied at a rate of 0.6-0.8 gal/100-ft ² with 0.5 lb/100ft ² of surfacing sand broadcast into the wet primer at a rate of 0.5 lb/ft ² . The 5kg Kempertec EP and EP5 Primer work pack shall yield 85-ft ² of primer.
	Kempertec EP Primer	
Liquid Applied Membrane	Kemperol Reflect 2K FR	The liquid membrane is installed with a mix ratio of 2.55:1 (Component A:Component B), and applying 2/3 rd of the mixture as the base coat. One ply of Kemperol 165 Fleece or Kemperol Premium 165 Fleece is rolled into and saturated by the wet base coat and the remaining the 1/3 rd of the Kemperol Reflect 2K FR combined mixture is immediately applied to complete the membrane. The finished membrane shall fully encapsulate the Fleece. The 12.5kg Kemperol Reflect 2K FR work pack shall yield 33-ft ² of installed membrane.
	Kemperol 2K-PUR	The liquid membrane is installed with a mix ratio of 4:1 (Component A:Component B) and roller-applied a rate 4.5 gal/100-ft ² to form a wet base coat. One ply of Kemperol 165 Fleece or Kemperol Premium 165 Fleece (smooth side facing up) is rolled into the wet resin and immediately coated with a second coat of Kemperol 2K-PUR resin applied a rate of 2 gal/100-ft ² . The finished membrane shall fully encapsulate the Fleece. The 12.5kg Kemperol 2K-PUR work pack shall yield 38-ft ² of installed membrane.
	Kemperol AC Speed FR	The liquid membrane is installed by combining Component A (resin) and Component B (Kemperol CP Catalyst Powder at a 2% mix ratio), and applying 2/3 rd of the mixture as the base coat. One ply of Kemperol 120 Fleece or Kemperol Premium 120 Fleece is rolled into the wet base coat and the remaining the 1/3 rd of the Kemperol AC Speed FR 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 Kemperol AC Speed FR work pack shall yield 60-ft ² of installed membrane.
Mod-Bit Sheets	Kemperol SBS Base Mop	Min. 4-inch wide side-laps; Min. 6-inch end laps; Side-laps shall be installed perpendicular to the direction of the steel deck ribs and parallel to the direction of the wood trusses for mechanically attached systems
	Kemperol SBS Base Torch	
	Kemperol SBS Cap Mop	
	Kemperol SBS Cap Mop FR	Min. 4-inch side-laps; Min. 6-inch end-laps;
	Kemperol SBS Cap Torch FR	

NOMENCLATURE

Name	Definition		
As Tested	Information provided to the report user based on the as tested condition of the roof system		
Deck Detail	As Tested deck construction details are described as follows:		
	Concrete Deck	Min. f'_c = 2,500 psi at 28 days	
	Wood Deck	Min. 19/32-inch thick, 40/20 span-rated, CDX plywood sheathing. The following nomenclature is used to further describe the As Tested 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 Kempertec EP5 Primer or Kempertec EP Primer	Kemperol Reflect 2K FR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-502.5 (Lim. 9)
C-2	Min 2500 psi concrete primed with Kempertec EP5 Primer or Kempertec EP Primer	Kemperol 2K-PUR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-502.5 (Lim. 9)
C-3	Min 2500 psi concrete primed with Kempertec AC Primer	Kemperol AC Speed FR	See note 6 above	-502.5 (Lim. 9)
C-4	Min 2500 psi concrete primed with Kempertec EP5 Primer or Kempertec EP Primer	Kemperol Reflect 2K FR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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-5	Min 2500 psi concrete primed with Kempertec EP5 Primer or Kempertec EP Primer	Kemperol 2K-PUR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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-6	Min 2500 psi concrete primed with Kempertec AC Primer	Kemperol AC Speed FR	Minimum 12" x 12" x 1/2" ANSI A137.1 ceramic tiles applied in ANSI A118.1 Portland Cement Mortar	-502.5 (Lim. 9)

Assemblies over Concrete Deck (New or Existing)				
System No.	Deck Detail	Waterproofing System	Overburden	MDP (psf)
C-7	Min 2500 psi concrete primed with Kempertec EP5 Primer or Kempertec EP Primer	Kemperol Reflect 2K FR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	Minimum 12" x 12" x 2" concrete pavers applied in ASTM C 270, Type M Mortar	-502.5 (Lim. 9)
C-8	Min 2500 psi concrete primed with Kempertec EP5 Primer or Kempertec EP Primer	Kemperol 2K-PUR with Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	Minimum 12" x 12" x 2" concrete pavers applied in ASTM C 270, Type M Mortar	-502.5 (Lim. 9)
C-9	Min 2500 psi concrete primed with Kempertec AC Primer	Kemperol AC Speed FR	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	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-2	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			

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-3	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol AC Speed FR with Kempertec AC Primer	See note 6 above	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-4	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-5	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-6	T19/32, L24, N6/6	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol AC Speed FR with Kempertec AC 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	-52.5 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			

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-7	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-8	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-9	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol AC Speed FR with Kempertec AC Primer	See note 6 above	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-10	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			

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-11	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-12	T19/32, L24, N4/4	Kemperol SBS Base Mop	12 ga. annular ring shank nails and 32 ga., 1-5/8-inch diameter tin caps at 8-inch o.c. in the lap and three (3) equally spaced, staggered center rows	Kemperol SBS Cap Torch FR	Torch adhered	Kemperol AC Speed FR with Kempertec AC 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	-60 (Lim. 7)
				Kemperol SBS Cap Mop or Kemperol SBS Cap Mop FR	Hot asphalt applied			
W-13	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-60 (Lim. 7)
W-14	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-60 (Lim. 7)
W-15	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol AC Speed FR with Kempertec AC Primer	See note 6 above	-60 (Lim. 7)

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-16	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol Reflect 2K FR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-60 (Lim. 7)
W-17	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol 2K-PUR with Kempertec D Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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	-60 (Lim. 7)
W-18	T19/32P, L24, N6/6	Elastobase	1-1/4-inch ring shank roofing nails and 32ga., 1-5/8-inch diameter tin caps spaced 8-inch o.c. in the side laps and 8-inch o.c. in four (4) equally spaced, staggered row in the field of the roll	Elastoflex SA P FR	Self-adhered	Kemperol AC Speed FR with Kempertec AC 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	-60 (Lim. 7)
W-19	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	Kemperol Reflect 2K FR with Kempertec EP5 Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-67.5 (Lim. 7)

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-20	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	Kemperol 2K-PUR with Kempertec EP5 Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	See note 6 above	-67.5 (Lim. 7)
W-21	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	Kemperol AC Speed FR with Kempertec AC Primer	See note 6 above	-67.5 (Lim. 7)
W-22	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	Kemperol Reflect 2K FR with Kempertec EP5 Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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)
W-23	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	Kemperol 2K-PUR with Kempertec EP5 Primer; Kempertec EP5 Primer or Kempertec EP Primer applied as alkalinity block	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)

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-24	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	Kemperol AC Speed FR with Kempertec AC 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)

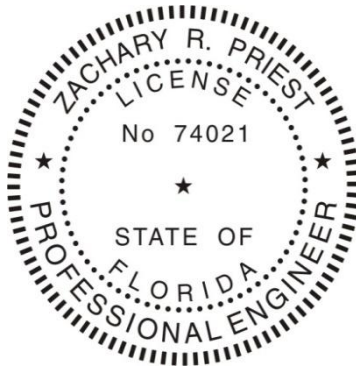


LIMITATIONS

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. 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.

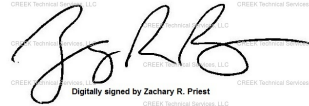
COMPLIANCE STATEMENT

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 9/17/2026.

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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.

END OF REPORT