CREEK
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EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: KEMPER SYSTEM AMERICA INC.
1200 North America Drive
West Seneca, NY 14224
(800) 541-5455
http://www.kemper-system.com

Issued April 8, 2021

Quality Assurance: FM Approvals (QUA1860)

SCOPE

Category: Roofing
Subcategory: Liquid Applied Roof Systems
Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3, 1507.15.2, 1515.1.1 , 1515.1.4, 1523.1.1, 1523.6.2, 1523.6.3
Properties: Wind Resistance

REFERENCES

Entity	Report No.	Standards (Year)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-001	TAS 114(J) (2011); FM 4474(D) (2011)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-003	TAS 114(D) (2011); FM 4474(B) (2011)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-004	TAS 114(D) (2011); FM 4474(B) (2011)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-005	TAS 114(D) (2011); FM 4474(B) (2011)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-006	TAS 114(D) (2011); FM 4474(B) (2011)
Atlantic & Caribbean Roof Consulting, LLC (TST4671)	17-008	TAS 114(D) (2011); FM 4474(B) (2011)
FM Approvals (TST1867)	3024195	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	3027446	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	3031405	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	3039130	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	3048085	FM 4470 (2016); FM 4474 (2011)
FM Approvals (TST1867)	3053219	FM 4470 (2016); FM 4474 (2011)
PRI Construction Materials Technologies (TST5878)	KPS-001-02-01	ASTM C 836 (2015); ASTM C 957 (2015); ASTM D 5147; TAS 110 (2000)
PRI Construction Materials Technologies (TST5878)	KPS-006-02-01	ASTM C 794 (2015a); ASTM D 570 (98(2010)e1); ASTM D 635 (2014); 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 (2015)
PRI Construction Materials Technologies (TST5878)	KPS-007-02-01	ASTM C 836 (2015); ASTM C 957 (2015); 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 (2015)
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	TAS 114(D) (2011); FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	1517T0002	ASTM D 93 (2015); ASTM D 562 (2010(2014)); ASTM D 1475(2013); ASTM D 1644 (2001(2017))
PRI Construction Materials Technologies (TST5878)	1517T0003	ASTM D 4541 (2017)
PRI Construction Materials Technologies (TST5878)	1517T0004	TAS 114(D) (2011); FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	1517T0005	TAS 114(D) (2011); FM 4474(B) (2011)
PRI Construction Materials Technologies (TST5878)	1517T0006	TAS 114(J) (2011); FM 4474(D) (2011)

PRODUCT DESCRIPTIONS

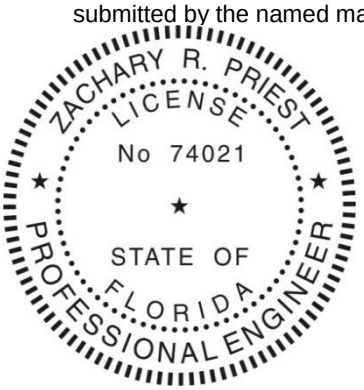
Use	Products	Description
Primer	Kempertec AC Primer	A quick-curing, high bonding primer used between prepared substrates and KEMPEROL systems comprised of a two-component, cold liquid-applied Polymethyl Methacrylate (PMMA) resin consisting of Component A (resin) and Component B (catalyst powder).
	Kempertec EP Primer	High bonding primer used between prepared substrates and KEMPEROL systems comprised of a solvent free, two-component, cold applied liquid epoxy resin.
	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 D Primer	High bonding primer used between prepared substrates and KEMPEROL systems comprised of a solvent free, high solids, two-component, cold applied liquid polyurethane.
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.
	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.
	Kemperol AC Speed FR	Polymethyl Methacrylate (PMMA) membrane composed of Component A and Component B (Catalyst Powder) and reinforced with Kemperol 120 Fleece.
Reinforcements	Kemperol 120 Fleece	120 g/m^2 polyester fleece reinforcement.
	Kemperol 165 Fleece	165 g/m^2 polyester fleece reinforcement.
	Kemperol Reinforcement Strip	Minimum 4-inch wide, 0.15 oz./ft^2 polyester polyester fabric.
Roof Coating over Liquid Applied Membrane	Kemperdur Deko 2KS-FR	A two-component urethane, solvent-based smooth roofing coating
	Kemperdur BSF-R Finish	A single-component, water based, cold liquid applied acrylic resin coating.
	Kemperdur TC	A three-component polyurethane, mineral filled, self-leveling traffic roof coating

LIMITATIONS

1. Fire classification is not within the scope of this evaluation.
2. Foam plastic insulation shall be separated from the building interior in accordance with the FBC 2603.4 except when that which is provided in FBC 2603.4.1 or 2603.6 applies.
3. 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.
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 assembly. 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 (February 2020).
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. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been digitally signed and sealed by Zachary R. Priest, PE, on 4/8/2021.

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
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Zachary R. Priest, P.E.
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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.

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.

APPENDICES

1) APPENDIX A – Installation (2 page)
2) APPENDIX B – Nomenclature and Approved Assemblies (11 pages)

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
Fasteners & Plates	Dekfast #12 DP Fastener	Min. 3/4-inch penetration through the top rib of the steel deck
	Dekfast #14 Fastener	
	Dekfast #15 Fastener	
	Dekfast Galvalume Steel Hex Plates	2⅞-inch x 3¼-inch hex plate
	Dekfast Galvalume Steel 3 in. Round	3-inch dia. round plate
	OMG #12 Standard Fastener	Min. 3/4-inch penetration through the top rib of the steel deck
	OMG #14 Heavy Duty Fastener	
	OMG 3 in. Galvalume Steel Plate	3-inch dia. round plate
	Trufast #12 DP Fastener	Min. 3/4-inch penetration through the top rib of the steel deck
	Trufast #14 HD Fastener	
	Trufast #15 EHD Fastener	
	Trufast 3 in. Metal Insulation Plate	3-inch dia. round plate
Insulation & Cover Boards	ACFoam-II (Atlas Roofing)	Min. 20 psi; Adhered boards shall be a maximum 4-ft x 4-ft
	DensDeck Prime (Georgia-Pacific)	Min. 1/4-inch thick
	DEXcell Cement Board (National Gypsum)	Min. 7/16-inch thick
	ENRGY 3 (Johns Manville)	Min. 0.5-inch thick
	H-Shield (Hunter Panels)	Min. 20 psi; Adhered boards shall be a maximum 4-ft x 4-ft
	H-Shield CG (Hunter Panels)	
	ISO 95+ GL (Firestone BP)	Min. 0.5-inch thick
	PermaBase (National Gypsum)	
	SECUROCK Cement Roof Board (USG)	
	Sopraboard (SOPREMA)	Min. 1/8-inch thick
Insulation Adhesives	ASTM D 312, Type IV Asphalt	Fully adhered within the EVT range at a rate of 25-40 lbs/100 ft^2
	Insta Stik Quik Set Insulation Adhesive	Applied in minimum 0.75 to 1-inch wide continuous ribbons
	Millennium One Step Foamable Adhesive	
	Millennium PG-1 Pump Grade Adhesive	
	OMG OlyBond 500	
Mod-Bit Plies	Elastobase (Polyglass)	Min. 4-inch wide side laps
	Elastoflex S6G (Polyglass)	Min. 3.5-inch wide side laps
	Elastoflex S6G FR (Polyglass)	Min. 3.5-inch wide side laps
	Elastoflex SA P FR (Polyglass)	Min. 3-inch wide side laps
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 EP 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 EP5 Primer	
	Kempertec D Primer	Mixed a ratio of 2:1 (Component A:Component B) and applied at a rate of 0.61 gal/100-ft^2.
Reinforcement Strip	Kemperol Reinforcement Strip	The reinforcement strip is laid into the wet primer over the insulation board joints followed by additional primer applied over the strips. Alternately, the reinforcement strips are laid into the wet Kemperol Liquid Membrane Systems over the insulation board joints followed by additional Kemperol Liquid Membrane applied over the strips.

APPENDIX A

Component	Product	Installation Detail
Membrane	Kemperol Reflect 2K FR	The liquid membrane is installed with a mix ratio of 2.55:1 (Component A:Component B), and applying 2/3rd of the mixture as the base coat. One ply of Kemperol 165 Fleece is rolled into and saturated by the wet base coat and the remaining the 1/3rd of the Kemperol Reflect 2K FR combined mixture is immediately applied to complete the membrane. The finished membrane shall fully encapsulate the Kemperol 165 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 (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 Kemperol 165 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 2/3rd of the mixture as the base coat. One ply of Kemperol 120 Fleece is rolled into the wet base coat and the remaining the 1/3rd of the Kemperol AC Speed FR combined mixture is immediately applied to complete the membrane. The finished membrane shall fully encapsulate the Kemperol 120 Fleece. The 15kg Kemperol AC Speed FR work pack shall yield 60-ft^2 of installed membrane.
Coatings	Kemperdur Deko 2KS-FR	Mixed at a ratio of 1:1 (Component A: Component B) and applied to the cured membrane a rate of 0.75 gal/100-ft^2. Alternately, the coating is applied to the cured membrane at a rate of 1 gal/100-ft^2 with silica sand or roofing granules broadcast into the wet coating. Following a 24h curing period, excess sand or granules are swept away from the surface and a second coat is applied at a rate of 0.75 gal/100-ft^2.
	Kemperdur BSF-R Finish	Applied to the cured membrane a rate of 0.75 gal/100-ft^2.
	Kemperdur TC	Mixed a ratio of 3:1:4 (Component A: Component B: Component C) and trowel applied at a rate of 57.3 lb/100-ft^2 with silica sand or roofing granules broadcast into wet coating. Following a 24h curing period, excess sand or granules are swept away from the surface and Kemperdur BSF-R Finish is applied at a rate of 1.25 gal/100-ft^2.

NOMENCLATURE

The following naming conventions are utilized to specify products in the APPROVED ASSEMBLIES section of this report. Refer to the nomenclature below when deciphering the allowable products for use in the selected roof system. Installation requirements shall be as noted in the APPROVED ASSEMBLIES and INSTALLATION section of this report.

Name	Definition		
As Tested	Information provided to the report user based on the as tested condition of the roof system		
AP Plates & Fasteners	Any one of the following: -Dekfast Galvalume Steel Hex plate and Dekfast #12 DP, Dekfast #14 or Dekfast #15 HS fasteners -OMG 3-inch Galvalume Steel Plate and OMG #12 Standard or OMG #14 Heavy Duty fasteners -Trufast 3-inch Metal Insulation Plate and Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD fasteners		
Deck Detail	*As Tested* deck construction details are described as follows:		
	Concrete Deck	Min. f'_c = 2,500 psi at 28 days	
	Steel Deck	Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for *LWIC* applications only. The following nomenclature is used to further describe the *As Tested* condition.	
		F<#>	<#> #12-24 HWH self-drilling screws or equivalent fastener at each flute used to secure the deck to the structural supports; Min. 1/4-inch penetration
		G<#>	Min. Grade <#> of *Steel Deck*
		L<#>	Max. span of <#> ft
		P	Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports
		S<#>	1/4”-14 HWH x7/8” self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
		W	3/4-inch O.D. flat washer used with indicated fastener
	Wood Deck	APA Span-Rated 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
Dekfast Hex Plates & Fasteners	Dekfast #14 or Dekfast #15 Fasteners with Dekfast Galvalume Steel Hex Plates		
Dekfast Round Plates & Fasteners	Dekfast #14 or Dekfast #15 Fasteners with Dekfast Galvalume 3-in Round Plates		
DensDeck Prime	Min. 1/4-inch Georgia-Pacific DensDeck Prime		
Insulation	Any *Approved* roofing insulation board under Rule 61G20-3		
IS-IA	Insta Stik Quik Set Insulation Adhesive		
Kemperdur Coatings	Any one of the following: Kemperdur Deko 2KS-FR Kemperdur BSF-R Finish Kemperdur TC		
MDP	Maximum Design Pressure		

Name	Definition
OB500	OMG Olybond 500 Adhesive
OSFA	Millennium One Step Foamable Adhesive
PG-1	Millennium PG-1 Pump Grade Adhesive
Recover	Where assemblies are used to recover an existing roof, the existing roof shall consist of only one layer of roofing, i.e. recovering a previously recovered roof is not permitted. Recover roofing shall be conducted in compliance with FBC Section 1511 outside of the HVHZ and FBC Section 1521 within the HVHZ.
Trufast Plates and Fasteners	Trufast #12 DP Fasteners and Trufast 3-inch metal insulation plates

APPROVED ASSEMBLIES

The following notes shall be observed when using the assembly tables below.

1. Allowable pressures were calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to **LIMITATIONS** and **NOMENCLATURE** sections 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 assembly.
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.

Assembly System Numbers and Definitions	
C-#	Assemblies over *Concrete Deck* (New or Existing)
R-#	*Recover* Assemblies
S-#	Assemblies over *Steel Deck* (New or Existing)
W-#	Assemblies over *Wood Deck* (New or Existing)

Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)								
System No.	Base Insulation/Vapor Barrier	Base Attachment	Top Insulation	Top Attachment	Primer	Membrane	Coating	*MDP (psf)*
C-1	Min. 1.5-inch ACFoam-II or H-Shield	Secured with top layer	1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-52.5 (Lim. 7)**
C-2	Min. 2-inch H-Shield or ACFoam-II	Secured with top layer	1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.33-ft^2	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-60 (Lim. 7)**
C-3	Min. 1.5-inch ACFoam-II or H-Shield CG	Secured with top layer	*DensDeck Prime*	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
C-4	Min. 2-inch H-Shield or ACFoam II	Secured with top layer	0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
C-5	Min. 2-inch H-Shield or ACFoam II	Secured with top layer	0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.45-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-75 (Lim. 7)**

Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)								
System No.	Base Insulation/Vapor Barrier	Base Attachment	Top Insulation	Top Attachment	Primer	Membrane	Coating	*MDP (psf)*
C-6	Min. 2-inch H-Shield	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-190 (Lim. 9)**
C-7	Min. 1.5-inch ACFoam-II, ISO 95+ GL, or ENRGY 3	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-190 (Lim. 9)**
C-8	Min. 2-inch H-Shield	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec AC Primer with Kemperol Reinforcement Strip	Kemperol AC Speed FR	-	**-190 (Lim. 9)**
C-9	Min. 2-inch ISO 95+ GL over Firestone APP 160 torch adhered over deck primed with ASTM D 41 primer	*OB500* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500* applied at max. 12-inch o.c. ribbons	Kempertec AC Primer with Kemperol Reinforcement Strip	Kemperol AC Speed FR	-	**-190 (Lim. 9)**
C-10	Min. 1.5-inch ACFoam-II, ISO 95+ GL, or ENRGY 3	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec AC Primer with Kemperol Reinforcement Strip	Kemperol AC Speed FR	-	**-190 (Lim. 9)**
C-11	0.5-inch PermaBase installed bottom side up under Kempertec EP Primer with Kemperol Reinforcement Strip	*OSFA* applied at max. 6-inch o.c. ribbons	Min. 2-inch H-Shield or ACFoam II under 0.5-inch PermaBase	*OSFA* applied at max. 6-inch o.c. ribbons	Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-195 (Lim. 9)**
C-12	0.5-inch PermaBase installed bottom side up under Kempertec EP Primer with Kemperol Reinforcement Strip	*OSFA* applied at max. 6-inch o.c. ribbons	Min. 2-inch H-Shield or ACFoam II under 1/8-inch Sopraboard or 0.5-inch PermaBase	*OSFA* applied at max. 6-inch o.c. ribbons	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-195 (Lim. 9)**

Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)								
System No.	Base Insulation/Vapor Barrier	Base Attachment	Top Insulation	Top Attachment	Primer	Membrane	Coating	*MDP (psf)*
C-13	Min. 1.5-inch ACFoam-II over deck primed with ASTM D 41 Primer	ASTM D 312, Type IV Asphalt	*DensDeck Prime*	ASTM D 312, Type IV Asphalt	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-202.5 (Lim. 9)**
C-14	Min. 2-inch ISO 95+ GL over OPTIONAL Firestone APP 160 torch adhered over deck primed with ASTM D 41 primer	*OB500* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-240 (Lim. 9)**
C-15	Min. 2-inch ISO 95+ GL over Firestone APP 160 torch adhered over deck primed with ASTM D 41 primer	*OB500* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-240 (Lim. 9)**
C-16	Min. 1.5-inch H-Shield over Elastoflex SG6 or Elastoflex SG6 FR torch adhered over deck primed with ASTM D 41 primer	*OSFA* spaced 12-inch o.c.	SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-292.5 (Lim. 7)**
C-17	Min. 1.5-inch H-Shield over Elastoflex SG6 or Elastoflex SG6 FR torch adhered over deck primed with ASTM D 41 primer	*OSFA* spaced 12-inch o.c.	SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-292.5 (Lim. 7)**
C-18	Min. 1.5-inch H-Shield over Elastoflex SG6 or Elastoflex SG6 FR torch adhered over deck primed with ASTM D 41 primer	*OSFA* spaced 12-inch o.c.	SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec AC Primer with Kemperol Reinforcement Strip	Kemperol AC Speed FR	-	**-292.5 (Lim. 7)**

Assemblies with Adhered Membranes over *Concrete Deck* (New or Existing)								
System No.	Base Insulation/Vapor Barrier	Base Attachment	Top Insulation	Top Attachment	Primer	Membrane	Coating	*MDP (psf)*
C-19	Min. 1.5-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-382.5 (Lim. 9)**
C-20	-	-	-	-	Kempertec EP Primer or Kempertec EP5 Primer	Kemperol Reflect 2K FR	-	**-502.5 (Lim. 9)**
C-21	-	-	-	-	Kempertec AC Primer	Kemperol AC Speed FR	-	**-502.5 (Lim. 9)**

***Recover* Assemblies**							
System No.	*Deck Detail*	Insulation/ Cover Board	Insulation/CoverBoard Attachment	Primer	Membrane	Coating	*MDP* (psf)
R-1	*Steel Deck (G33, F1, L6, S24)*	1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-52.5 (Lim. 7)**
R-2	*Concrete Deck*	Min. 1.5-inch ACFoam-II or H-Shield under 1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-52.5 (Lim. 7)**
R-3	Existing smooth surfaced BUR	-	-	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-52.5 (Lim. 9)**
R-4	*Concrete Deck*	Min. 2-inch H-Shield CG or ACFoam II under 1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.33-ft^2	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-60 (Lim. 7)**
R-5	*Steel Deck (G33, F1, L6, S24)*	*DensDeck Prime*	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
R-6	*Concrete Deck*	Min. 1.5-inch ACFoam-II or H-Shield under *DensDeck Prime*	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**

***Recover* Assemblies**							
System No.	*Deck Detail*	Insulation/ Cover Board	Insulation/CoverBoard Attachment	Primer	Membrane	Coating	*MDP* (psf)
R-7	*Concrete Deck*	Min. 2-inch H-Shield or ACFoam II under 0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
R-8	*Concrete Deck*	Min. 2-inch H-Shield or ACFoam II under 0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.45-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-75 (Lim. 7)**
R-9	Existing granule mod-bit roofing over *Wood Deck*	-	-	Kempertec D Primer	Kemperol Reflect 2K FR	-	**-82.5 (Lim. 7)**
R-10	Existing granule mod-bit roofing over *Wood Deck*	-	-	Kempertec D Primer	Kemperol 2K-PUR	*Kemperdur Coatings*	**-82.5 (Lim. 7)**
R-11	Existing granule mod-bit roofing over *Wood Deck*	-	-	Kempertec AC Primer	Kemperol AC Speed FR	-	**-82.5 (Lim. 7)**
R-12	Existing granule mod-bit roofing over *Concrete Deck*	Min. 1.5-inch H-Shield under SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-292.5 (Lim. 7)**
R-13	Existing granule mod-bit roofing over *Concrete Deck*	Min. 1.5-inch H-Shield under SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-292.5 (Lim. 7)**
R-14	Existing granule mod-bit roofing over *Concrete Deck*	Min. 1.5-inch H-Shield under SECUROCK Cement Board	*OSFA* spaced 12-inch o.c.	Kempertec AC Primer with Kemperol Reinforcement Strip	Kemperol AC Speed FR	-	**-292.5 (Lim. 7)**
R-15	Existing smooth surfaced BUR over *Concrete Deck*	-	-	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-495 (Lim. 9)**
R-16	Existing smooth surfaced BUR over *Concrete Deck*	-	-	-	Kemperol Reflect 2K FR	-	**-502.5 (Lim. 9)**
R-17	Existing smooth surfaced BUR over *Concrete Deck*	-	-	Kempertec EP Primer or Kempertec EP5 Primer	Kemperol 2K-PUR	-	**-502.5 (Lim. 9)**

Assemblies with Adhered Membranes *Steel Deck* (New or Existing)								
System No.	*Deck Detail*	Insulation	Cover Board	Insulation/Coverboard Attachment	Primer	Membrane	Coating	*MDP* (psf)
S-1	*G40, F1, L6, S24*	Min. 1.5-inch ACFoam-II secured with cover board	1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-52.5 (Lim. 7)**
S-2	*G40, P, L6, S12*	Min. 2-inch H-Shield secured with *Trufast Fasteners and Plates* at a rate of one per 2 ft^2	Min. 0.5-inch SECUROCK Cement Roof Board	*OSFA* applied at max. 12-inch o.c. ribbons	Kemertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-52.5 (Lim. 7)**
S-3	*G40, F1, L6, S24*	Min. 2-inch H-Shield or ACFoam-II secured with cover board	1/8-inch Sopraboard	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.33-ft^2	Kempertec EP Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-60 (Lim. 7)**
S-4	*G40, F1, L6, S24*	Min. 1.5-inch ACFoam-II or H-Shield secured with cover board	*DensDeck Prime*	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2 (diamond in a square pattern)	Kempertec D Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
S-5	*G40, F1, L6, S24*	Min. 2-inch H-Shield or ACFoam-II secured with cover board	0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 2 ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-67.5 (Lim. 7)**
S-6	*G40, F1, L6, S24*	Min. 2-inch H-Shield or ACFoam-II secured with cover board	0.5-inch PermaBase installed bottom side up	*Dekfast Hex Plates & Fasteners* through-fastened to deck at a rate of one per 1.45-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-75 (Lim. 7)**
S-7	*G40, F2, L6, S12*	Min. 1.5-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with coverboard	Min. 0.5-inch SECUROCK Cement Roof Board	*AP Plates & Fasteners* through-fastened to deck at a rate of one per 1-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-82.5 (Lim. 7)**
S-8	*G40, F2, L6, S12*	Min. 1.5-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with coverboard	Min. 0.5-inch SECUROCK Cement Roof Board	*AP Plates & Fasteners* through-fastened to deck at a rate of one per 1-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-82.5 (Lim. 7)**
S-9	*G40, F2W, L6, S12*	Min. 2-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with *Dekfast Hex Plates & Fasteners* or *Dekfast Round Plates & Fasteners* through-fastened to deck at a rate of one per 1 ft^2	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-82.5 (Lim. 7)**

Assemblies with Adhered Membranes *Steel Deck* (New or Existing)								
System No.	*Deck Detail*	Insulation	Cover Board	Insulation/Coverboard Attachment	Primer	Membrane	Coating	*MDP* (psf)
S-10	*G40, F2W, L6, S12*	Min. 2-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with *Dekfast Hex Plates & Fasteners* or *Dekfast Round Plates & Fasteners* through-fastened to deck at a rate of one per 1 ft^2	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-82.5 (Lim. 7)**
S-11	*G80, F2W, L6, S12*	Min. 2-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with *Dekfast Hex Plates & Fasteners* or *Dekfast Round Plates & Fasteners* through-fastened to deck at a rate of one per 1 ft^2	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-127.5 (Lim. 7)**
S-12	*G80, F2W, L6, S12*	Min. 2-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with *Dekfast Hex Plates & Fasteners* or *Dekfast Round Plates & Fasteners* through-fastened to deck at a rate of one per 1 ft^2	Min. 0.5-inch SECUROCK Cement Roof Board	*OB500*, *IS-IA*, *PG-1* or *OSFA* applied at max. 12-inch o.c. ribbons	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-127.5 (Lim. 7)**
S-13	*G80, F2W, L6, S12*	Min. 1.5-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with coverboard	Min. 0.5-inch SECUROCK Cement Roof Board	*AP Plates & Fasteners* through-fastened to deck at a rate of one per 1-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol Reflect 2K FR	-	**-150 (Lim. 7)**
S-14	*G80, F2W, L6, S12*	Min. 1.5-inch ACFoam-II, ISO 95+ GL, ENRGY 3 or H-Shield secured with coverboard	Min. 0.5-inch SECUROCK Cement Roof Board	*AP Plates & Fasteners* through-fastened to deck at a rate of one per 1-ft^2	Kempertec EP Primer or Kempertec EP5 Primer with Kemperol Reinforcement Strip	Kemperol 2K-PUR	*Kemperdur Coatings*	**-150 (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	Coatings	*MDP* (psf)
W-1	*T9/32P, 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	-	**-60 (Lim. 7)**
W-2	*T9/32P, 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	*Kemperdur Coatings*	**-60 (Lim. 7)**
W-3	*T9/32P, 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	-	**-60 (Lim. 7)**
W-4	*T9/32P, L24, N6/6*	*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	-	**-67.5 (Lim. 7)**
W-5	*T9/32P, L24, N6/6*	*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	*Kemperdur Coatings*	**-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	Coatings	*MDP* (psf)
W-A-6	*T9/32P, L24, N6/6*	*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	-	**-67.5 (Lim. 7)**
W-7	*T9/32P, 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 SG6 or Elastoflex SG6 FR	torch adhered	Kemperol Reflect 2K FR with Kempertec D Primer	-	**-82.5 (Lim. 7)**
W-8	*T9/32P, 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 SG6 or Elastoflex SG6 FR	torch adhered	Kemperol 2K-PUR with Kempertec D Primer	*Kemperdur Coatings*	**-82.5 (Lim. 7)**
W-9	*T9/32P, 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 SG6 or Elastoflex SG6 FR	torch adhered	Kemperol AC Speed FR with Kempertec AC Primer	-	**-82.5 (Lim. 7)**

END OF REPORT