



EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: U.S. Ply, Inc.
 PO Box 11740
 Fort Worth, TX 76110
 (866) 787-4759
www.usply.com

Issued August 11, 2020

Manufacturing Plants: Tuscaloosa, AL

Quality Assurance: UL LLC (QUA9625)

SCOPE

Category: Roofing
Subcategory: Built-Up Roofing
Code Edition: Florida Building Code, 7th Edition (2020) including High-Velocity Hurricane Zones (HVHZ)
Code Sections: 1504.3.1, 1507.6.5, 1507.10.2, 1515.1.1
Properties: Wind Resistance, Physical Properties

PRODUCT DESCRIPTION

Products	Description
USP Base Sheet	USP Base Sheet is an ASTM D 4601, Type II base sheet used as a mechanically fastened or adhered base sheet in a variety of built-up roofing applications.
USP Type IV Fiberglass Felt	USP Type IV Fiberglass Felt is an ASTM D 2178, Type IV ply sheet used in hot mopped built-up roofing applications.
USP Premium Type VI Fiberglass Felt	USP Premium Type VI Fiberglass Felt is an ASTM D 2178, Type VI ply sheet used in hot mopped built-up roofing applications.
USP Mineral Cap Sheet	USP MINERAL CAP SHEET is an ASTM D 3909 asphalt roll roofing product surfaced with mineral granules for use in a variety of built-up roofing applications.

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
Miami-Dade BCCO (CER1592)	11-0104.07	FM 4470	2016
Miami-Dade BCCO (CER1592)	11-0104.08	FM 4470	2016
Miami-Dade BCCO (CER1592)	11-0414.07	FM 4470	2016
PRI Construction Materials Technologies (TST6049)	BWR-505-02-01	ASTM D 2178	2015
PRI Construction Materials Technologies (TST6049)	BWR-506-02-01	ASTM D 2178	2015
PRI Construction Materials Technologies (TST6049)	BWR-508-02-01	ASTM D 4601	2004(2012)E1
PRI Construction Materials Technologies (TST6049)	BWR-530-02-01	ASTM D 4601	2004(2012)E1
PRI Construction Materials Technologies (TST6049)	BWR-539-02-01	ASTM D 3909	2014
PRI Construction Materials Technologies (TST6049)	MSA-006-02-01	ASTM D 4897	2001(2009)
PRI Construction Materials Technologies (TST6049)	MSA-018-02-01	FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST6049)	USP-014-02-01	FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST6049)	USP-015-02-01	FM 4474(D)	2011
		TAS 114(J)	2011

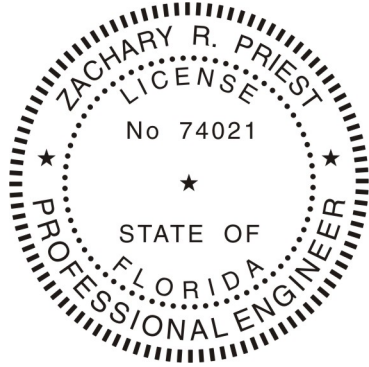


LIMITATIONS

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.
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. 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. 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 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.
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.



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.

APPENDICES

- 1) APPENDIX A – Installation (1 page)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (6 pages)

INSTALLATION

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

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

Component	Product	Installation Detail
Fastening Systems	Dekfast 12	#12 fastener for steel decks
	Dekfast 14	#14 fastener for steel or concrete decks
	Dekfast Galvalume Steel 3" Round	3" diameter, round Galvalume® steel plate
	Dekfast Galvalume Steel Hex	2 7/8" x 3 1/4" hexagonal Galvalume® steel plate
	Dekfast Recessed Galvalume Steel Hex	2 7/8" x 3 1/4" hexagonal Galvalume® steel plate
	Dekfast System ES #12 Steel	Pre-assembled #12 fastener and 3" round Galvalume® steel plate
	Firestone All Purpose Fastener	#14 fastener for steel decks
	Firestone Heavy Duty Fastener	#15 fastener for steel or concrete decks
	Firestone Hexagonal Plate	2 7/8" x 3 3/8" hexagonal plate
	OMG #12 Standard Hex Head	#12 fastener for steel decks
	OMG G-2 Plate	3 1/2" diameter round Galvalume® AZ55 Steel Plate
	OMG Heavy Duty Fastener	#14 fastener for steel or concrete decks
	OMG Strap Toggle	1/4" diameter x 2" long toggle bolt for steel decks
	OMG Plastic Plate	3" round Polypropylene plate
	OMG #12 Standard Roofgrip	#12 fastener for steel decks
	OMG 3" Round Plate	3" round Galvalume® steel plate
	OMG Recessed Metal Plate	3" round Galvalume® steel plate
	TRUFAST #12 DP Fastener	#12 fastener for steel decks
	TRUFAST #12 DPH Fastener	#12 HWH fastener for steel decks
	TRUFAST #14 HD Fastener	#14 fastener for steel or concrete decks
TRUFAST 3" Metal Insulation Plate	3" round stress plate	
Insulation Adhesives	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 20-40 lbs/100 ft ²
Membrane Adhesives	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 20-40 lbs/100 ft ²
Insulation Boards	ACFoam II	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	ACFoam Composite	Adhered boards shall be a maximum 4 ft x 4 ft
	ENRGY 3	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	EnergyGuard High Density Fiberboard	Min. 1/2-inch thick;
	EnergyGuard Perlite	Min.3/4-inch thick;
	Fesco Board	Min.3/4-inch thick;
	Fesco Foam	Min. 1.5-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Firestone ISO 95+ Composite	Min. 1.5-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft
	Firestone ISO 95+ GL	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	Georgia Pacific DensDeck	Min. 1/4-inch thick;
	Multi-Max FA-3	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
Thermarroof Composite-3	Min. 1.5-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
Base Sheets	USP Base Sheet	Min. 4-inch side laps
Cellular Lightweight Concrete	Min. 300 psi Cellular Lightweight Concrete	Slurry coat min. 1/8-inch thick; Min. 1-inch thick EPS board (1 lbs/ft ³); Min. 2-inch top coat

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 assembly. Installation requirements shall be as noted in the [APPROVED ASSEMBLIES](#) and [INSTALLATION](#) section of this report.

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>Steel Deck</i>	Min. 22 ga, Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC; 0.5% Vented for <i>LWIC</i> applications only. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	<i>F<#></i>	<#> #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
	<i>G<#></i>	Min. Grade <#> of <i>Steel Deck</i>
	<i>L<#></i>	Max. span of <#> ft
	<i>P</i>	Min. 5/8-inch diameter puddle welds at each flute used to secure the deck to the structural supports
	<i>S<#></i>	1/4 "-14 HWH x7/8" self-drilling screws or equivalent fastener secured <#>-inch o.c. along the panel side laps
	<i>W</i>	3/4-inch O.D. flat washer used with indicated fastener
	<i>Wood Deck</i>	HVHZ: Min. 19/32-inch thick APA Span-Rated plywood or wood plank for new construction The following nomenclature is used to further describe the <i>As Tested</i> condition:
<i>T<#></i>	Min. <#>-inch thickness of the plywood or wood plank	
<i>L<#></i>	Max. span of <#> inches	
<i>0.113-<#1>/<#2></i>	0.113-inch x 2-3/8-inch ring shank nails; Secured <#1> of fasteners at all intermediate supports and at the number <#2> of fasteners at the perimeter of each board	
<i>Composite</i>	One of more layers in any combination of: -ACFoam Composite -Thermarroof Composite-3 -ISO 95+ Composite -Fesco Foam	
<i>DensDeck</i>	Min. 1/4-inch Georgia-Pacific DensDeck	
<i>Fasteners and Plates</i>	Any of the following fasteners and plates: -Dekfast 12 or Dekfast 14 with Dekfast Galvalume Steel Hex Plate -Firestone All Purpose Fastener or Heavy Duty Fastener with Hexagonal Plate -OMG #12 Standard Roofgrip, OMG Heavy Duty, OMG #12 Standard Hex Head or Strap Toggle with OMG 3" Round, OMG G-2 or OMG Recessed Metal Plate -Dekfast 12 or Dekfast 14 with Dekfast Galvalume 3" Round Plate -Dekfast System ES #12 Steel -TRUFAST #12 DP Fastener or TRUFAST #14 HD Fastener with TRUFAST 3" Metal Insulation Plate	
<i>HA Base</i>	One ply of USP Base Sheet fully bonded in ASTM D 312, Type IV hot asphalt	
<i>HA Cap</i>	One ply of USP MINERAL CAP SHEET fully bonded in ASTM D 312, Type IV hot asphalt applied in the EVT range at a rate of 25-30 lbs/100 ft ²	
<i>HA Ply</i>	Two or more plies of USP Type IV Fiberglass Felt or USP Premium Type VI Fiberglass Felt fully bonded in ASTM D 312, Type IV hot asphalt	
<i>HA Surface</i>	Flood coat of hot asphalt applied at a rate of 60 lbs/100 ft ² plus fully embedded gravel applied at a rate of 400 lbs/100 ft ²	

Name	Definition
<i>ISO</i>	One of more layers in any combination of: -ACFoam II -Multi-Max-3 -ISO 95+
<i>Insulation Fasteners</i>	Any of the following fasteners and plates: -Dekfast 12 or Dekfast 14 with Dekfast Galvalume Steel " Round or Hex plate -Firestone All-Purpose Fastener and Firestone Hexagonal Plate -OMG #12 Standard Roofgrip, OMG Heavy Duty, or Strap Toggle with OMG 3" Round Plate, Recessed Metal Plate, or G-2 Plate -TRUFAST #12 DP Fastener, TRUFAST #12 DPH Fastener, or TRUFAST #14 HD Fastener with TRUFAST 3" Metal Insulation Plate
<i>LWIC</i>	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
<i>MA Base</i>	One ply of USP Base Sheet mechanically attached as prescribed per the approved assembly
<i>MDP</i>	Maximum Design Pressure

APPROVED ASSEMBLIES

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

1. *MDPs* were calculated using a 2:1 margin of safety per FBC Section 1504.9 and 1523.4.
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-A-#	Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
C-AM-#	Assemblies with Adhered Membranes over Fastened Insulation over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i>)
C-M-#	Mechanically Fastened Assemblies over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i>)
LC-M-#	Mechanically Fastened Lightweight Concrete Assemblies over <i>Concrete Deck</i> (New or Existing)
LS-M-#	Mechanically Fastened Lightweight Concrete Assemblies over <i>Steel Deck</i> (New or Existing)
S-AM-#	Assemblies with Adhered Membranes over Fastened Insulation over <i>Steel Deck</i> (New, Existing, or <i>Recover</i>)
S-M-#	Mechanically Fastened Assemblies over <i>Steel Deck</i> (New, Existing, or <i>Recover</i>)
W-M-#	Mechanically Fastened Assemblies over <i>Wood Deck</i> (New or Existing)

Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)							
System No.	Base Insulation	Top Insulation	Insulation Attachment	Base Sheet	Ply Sheet	Surfacing or Cap Sheet	<i>MDP</i> (psf)
C-A-1	Min. 1.5-inch <i>ISO</i> over deck primed with ASTM D 41 primer	OPTIONAL Min. 1-inch EnergyGuard Perlite, EnergyGuard Perlite Recover or Fesco Board or Min. 1/2-inch EnergyGuard High Density Fiberboard	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface</i> or <i>HA Cap</i>	-45 (Lim. 9)
C-A-2	Min. 1.5-inch <i>ISO</i>	Min 1-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface</i> or <i>HA Cap</i>	-90 (Lim. 9)
C-A-3	-	-	-	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface</i> or <i>HA Cap</i>	-90 (Lim. 9)
C-A-4	-	-	-	<i>HA Base</i> over deck primed with ASTM D 41 primer	<i>HA Ply</i>	<i>HA Surface</i> or <i>HA Cap</i>	-177.5 (Lim. 9)
C-A-5	-	-	-	<i>HA Ply</i> over deck primed with ASTM D 41 primer	<i>HA Ply</i>	<i>HA Surface</i> or <i>HA Cap</i>	-267.5 (Lim. 9)

Assemblies with Adhered Membranes over Fastened Insulation over Concrete Deck (New, Existing, or Recover)								
System No.	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Base Sheet	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
C-AM-1	Min. 1.5-inch Composite	<i>Insulation Fasteners</i> at a rate of 1 per 2 ft ²	OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)
C-AM-2	Min. 1.5-inch ISO over OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board <i>Preliminarily Secured</i>	<i>Insulation Fasteners</i> at a rate of 1 per 2 ft ²	Min. 1/2-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)
C-AM-3	Min. 1.5-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 3.2 ft ²	Min. 3/4-inch EnergyGuard Perlite or Fesco Board or <i>DensDeck</i>	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)
C-AM-4	Min. 2-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 4 ft ²	Min. 3/4-inch EnergyGuard Perlite or Fesco Board or <i>DensDeck</i>	ASTM D 312, Type IV hot asphalt	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)
C-AM-5	Min. 1.5-inch Composite	-	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	<i>Insulation Fasteners</i> at a rate of 1 per 2 ft ²	<i>HA Base</i>	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)

Mechanically Fastened Assemblies over Concrete Deck (New, Existing, or Recover)							
System No.	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
C-M-1	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Min. 1.5-inch ACFoam II, Multi-Max FA-3 or ISO 95+ GL	<i>MA Base</i>	<i>Fasteners and Plates</i> spaced 18-inch o.c. in the lap and in one (1) row in the center of the sheet	<i>HA Ply</i>	<i>HA Surface or HA Cap</i>	-45 (Lim. 9)

Mechanically Fastened Lightweight Concrete Assemblies over <i>Concrete Deck</i> (New or Existing)						
System No.	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
LC-M-1	Min. 300 psi LWIC	MA Base	Simplex Turbo Tube-Lok Fasteners 9-inch o.c. in the lap and 12-inch o.c. in two (2) equally spaced rows and staggered in the field of the sheet	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)

Mechanically Fastened Lightweight Concrete Assemblies over <i>Steel Deck</i> (New or Existing)							
System No.	Deck Detail	LWIC	Base Sheet	Base Sheet Attachment	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
LS-M-1	G40, L5	Min. 300 psi LWIC	MA Base	Simplex Turbo Tube-Lok Fasteners 9-inch o.c. in the lap and 12-inch o.c. in two (2) equally spaced rows and staggered in the field of the sheet	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)

Assemblies with Adhered Membranes over Fastened Insulation over <i>Steel Deck</i> (New, Existing, or Recover)									
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Base Sheet	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
S-AM-1	G40, L5	Min. 1.5-inch Composite	Insulation Fasteners at a rate of 1 per 2 ft ²	OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	HA Base	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)
S-AM-2	G40, L5	Min. 1.5-inch ISO over OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Insulation Fasteners at a rate of 1 per 2 ft ²	Min. 1/2-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	HA Base	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)
S-AM-3	G40, L5	Min. 1.5-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 3.2 ft ²	Min. 3/4-inch EnergyGuard Perlite or Fesco Board or DensDeck	ASTM D 312, Type IV hot asphalt	HA Base	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)
S-AM-4	G40, L5	Min. 2-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 4 ft ²	Min. 3/4-inch EnergyGuard Perlite or Fesco Board or DensDeck	ASTM D 312, Type IV hot asphalt	HA Base	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)

Assemblies with Adhered Membranes over Fastened Insulation over Steel Deck (New, Existing, or Recover)									
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Base Sheet	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
S-AM-5	G40, L5	Min. 1.5-inch Composite	Simultaneously secured with top layer	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Insulation Fasteners at a rate of 1 per 2 ft ²	HA Base	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)

Mechanically Fastened Assemblies over Steel Deck (New, Existing, or Recover)								
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
S-M-1	G40, L5	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Min. 1.5-inch ISO	MA Base	Fasteners and Plates spaced 18-inch o.c. in the lap and in one (1) row in the center of the sheet	HA Ply	HA Surface or HA Cap	-45 (Lim. 9)

Mechanically Fastened Assemblies over Wood Deck (New or Existing)								
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Ply Sheet	Surfacing or Cap Sheet	MDP (psf)
W-M-1	T19/32, L24, 0.113-6/6	-	-	MA Base	12 ga. x 1-1/4-inch ring shank nails and 32 ga. x 1-5/8-inch diameter tin caps fastened 8-inch o.c. along the lap and 8-inch o.c. in two (2) equal spaced and staggered rows in the field of the roll	HA Ply	HA Surface or HA Cap	-60 (Lim. 7)

END OF REPORT