



**EVALUATION REPORT**

**FLORIDA BUILDING CODE, 7<sup>TH</sup> EDITION (2020)**

**Manufacturer:** U.S. Ply, Inc.  
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 Fort Worth, TX 76110  
 (866) 787-4759  
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*Issued August 11, 2020*

**Manufacturing Plants:** Tuscaloosa, AL

**Quality Assurance:** UL LLC (QUA9625)

**SCOPE**

**Category:** Roofing  
**Subcategory:** Built-Up Roofing  
**Code Sections:** 1504.3.1, 1507.6.5, 1507.10.2, 1515.1.1  
**Properties:** Wind Resistance, Physical Properties

**PRODUCT DESCRIPTION**

Products	Description
<b>USP Base Sheet</b>	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.
<b>USP Type IV Fiberglass Felt</b>	USP Type IV Fiberglass Felt is an ASTM D 2178, Type IV ply sheet used in hot mopped built-up roofing applications.
<b>USP Premium Type VI Fiberglass Felt</b>	USP Premium Type VI Fiberglass Felt is an ASTM D 2178, Type VI ply sheet used in hot mopped built-up roofing applications.
<b>USP Mineral Cap Sheet</b>	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**

Entity	Report No.	Standard	Year
FM (TST1867)	3004059	FM 4470	2016
FM (TST1867)	3012321	FM 4470	2016
FM (TST1867)	3014751	FM 4470	2016
FM (TST1867)	3020703	FM 4470	2016
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 (TST5878)	BWR-505-02-01	ASTM D 2178	2015
PRI Construction Materials Technologies (TST5878)	BWR-506-02-01	ASTM D 2178	2015
PRI Construction Materials Technologies (TST5878)	BWR-508-02-01	ASTM D 4601	2004(2012)E1
PRI Construction Materials Technologies (TST5878)	BWR-530-02-01	ASTM D 4601	2004(2012)E1
PRI Construction Materials Technologies (TST5878)	BWR-539-02-01	ASTM D 3909	2014
PRI Construction Materials Technologies (TST5878)	MSA-006-02-01	ASTM D 4897	2001(2009)
PRI Construction Materials Technologies (TST5878)	MSA-018-02-01	FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	USP-014-02-01	FM 4474(B)	2011
		TAS 114(D)	2011
PRI Construction Materials Technologies (TST5878)	USP-015-02-01	FM 4474(D)	2011
		TAS 114(J)	2011
UL LLC (TST9628)	R20817	UL 1897	2012
UL LLC (TST9628)	R11662	ASTM D 4601	2004(2012)E1
		ASTM D 2178	2015



## LIMITATIONS

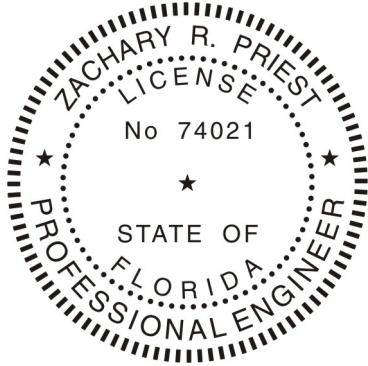
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1. This evaluation report is not use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
4. Foam plastic insulation shall be installed in accordance with the FBC Section 2603.4 and 2603.6.
5. 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.
6. The minimum roof slope shall be 1/4:12 for new construction.
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. 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. For mechanically fastened systems, a field withdrawal resistance test (ANSI/SPRI FX-1 or TAS 105) 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 (ASTM E 907, FM LPDS 1-52, ANSI/SPRI IA-1, or TAS) 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. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

### COMPLIANCE STATEMENT

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The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7<sup>th</sup> Edition (2020) 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

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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

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- 1) APPENDIX A – Installation (2 page)
- 2) APPENDIX B – Nomenclature and Approved Assemblies (12 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 DF-#12-PH3	#12 fastener; Min.0.75-inch penetration through the top rib of the steel deck
	Dekfast DF-#14-PH3	#14 fastener; Min. 0.75-inch penetration through the top rib of the steel deck or wood deck. Min. penetration 1-inch into concrete deck.
	Dekfast PLT-R-3	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 Polymer GypTec	For use in gypsum and cementitious wood fiber deck; Min. 1.5-inch embedment
	OMG 3-in. GypTec Plate	3-inch round Galvalume® steel plate for use with Polymer GypTec fasteners
	OMG CD-10 Fastener	Min. penetration 1-inch into concrete deck.
	OMG Heavy Duty Fastener	#14 fastener; Min. 0.75-inch penetration through the top rib of the steel deck or wood deck. Min. penetration 1-inch into concrete deck.
	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; Min.0.75-inch penetration through the top rib of the steel deck
	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
	TRUFAST TL Fastener	For use in gypsum and cementitious wood fiber deck
	TRUFAST 3" TL Insulation Plate	3-inch round Galvalume® steel plate with reinforcing ribs for use with TL fasteners; Min. 1.5-inch embedment
TRUFAST Twin Loc-Nail Assembled Fastener	Min. 1.8-inch shank; Base sheet fastener with integrated 2.7-inch diameter plate and locking staple.	
Insulation Adhesives	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 20-40 lbs/100 ft <sup>2</sup>
	ICP Adhesives CR-20	Applied in 2.5 to 3.5-inch wide continuous ribbons; Max. 12-inch o.c.
	Insta-Stik Roofing Adhesive	Applied in 1-inch wide continuous ribbons; Max. 12-inch o.c.
	Millennium One Step Foamable Adhesive	Applied in 1/2 to 3/4-inch wide continuous ribbons; Max. 12-inch o.c.
	OMG OlyBond 500	Applied in 3/4 to 1-inch wide continuous ribbons; Max. 12-inch o.c.
Membrane Adhesives	ASTM D 312, Type IV asphalt	Fully adhered within the EVT range at a rate of 20-40 lbs/100 ft <sup>2</sup>



Component	Product	Installation Detail
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
	EPS	Min 0.5-inch; Adhered boards shall be a maximum 4-ft x 4-ft
	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
	Georgia Pacific DensDeck Prime	Min. 1/4-inch thick
	H-Shield	Min. 0.5-inch thick; Min. 20 psi polyisocyanurate board with various facers; Adhered boards shall be a maximum 4-ft x 4-ft
	Multi-Max FA-3	Min. 1/2-inch thick; Min. 20 psi; Adhered boards shall be a maximum 4 ft x 4 ft
	Structodek High Density Fiberboard	Min. 0.5-inch thick
Thermarof Composite-3	Min. 1.5-inch thick; Adhered boards shall be a maximum 4 ft x 4 ft	
USG SECUROCK Gypsum-Fiber Roof Board	Min. 0.25-inch thick gypsum roof board with fiber reinforcement	
Base Sheets	USP Base Sheet	Min. 4-inch side laps
Ply Sheets	USP Type IV Fiberglass Felt	Min. 4-inch side laps
	USP Premium Type VI Fiberglass Felt	
Cap Sheets	USP Mineral Cap 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 <sup>3</sup> ); Min. 2-inch top coat
	Min. 200 psi Celcore	
	Min. 200 psi Elastizell	
	Min. 200 psi Mearlcrete	

### 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>BUR</i>	All plies fully bonded in ASTM D 312, Type IV hot asphalt using one of the following combinations: <ol style="list-style-type: none"> <li>1) Three or four plies of USP Type IV Fiberglass Felt or USP Premium Type VI Fiberglass Felt followed by flood coat of hot asphalt applied at a rate of 60 lbs/100 ft<sup>2</sup> plus fully embedded gravel applied at a rate of 400 lbs/100 ft<sup>2</sup>, or other approved surfacing</li> <li>2) Two or three plies of USP Type IV Fiberglass Felt or USP Premium Type VI Fiberglass Felt followed by one ply of USP Mineral Cap Sheet</li> <li>3) One ply of USP Base Sheet followed by two or three plies of USP Type IV Fiberglass Felt or USP Premium Type VI Fiberglass Felt followed by flood coat of hot asphalt applied at a rate of 60 lbs/100 ft<sup>2</sup> plus fully embedded gravel applied at a rate of 400 lbs/100 ft<sup>2</sup>, or other approved surfacing; Not for use over mechanically attached USP Base Sheet</li> <li>4) One ply of USP Base Sheet followed by one or two plies of USP Type IV Fiberglass Felt or USP Premium Type VI Fiberglass Felt followed by one ply of USP Mineral Cap Sheet; Not for use over mechanically attached USP Base Sheet</li> </ol>	
<i>CD Fasteners and Plates</i>	One of the following with concrete deck: <ul style="list-style-type: none"> <li>-OMG 3" Round Plate with OMG Heavy Duty or CD-10 fastener</li> <li>-TRUFAST 3" Metal Insulation Plate with TRUFAST #14HD fastener</li> </ul>	
<i>CR-20</i>	ICP Adhesives CR-20	
<i>Composite</i>	One of more layers in any combination of: <ul style="list-style-type: none"> <li>-ACFoam Composite</li> <li>-ISO 95+ Composite</li> <li>-Thermarroof Composite-3</li> <li>-Fesco Foam</li> </ul>	
<i>Deck Detail</i>	<i>As Tested deck construction details are described as follows:</i>	
	<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 LWIC applications only. The following nomenclature is used to further describe the <i>As Tested</i> condition.
	<i>F&lt;#&gt;</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&lt;#&gt;</i>	Min. Grade <#> of <i>Steel Deck</i>
	<i>L&lt;#&gt;</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&lt;#&gt;</i>	1/4 "x14 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>	The following nomenclature is used to further describe the <i>As Tested</i> condition:
<i>T&lt;#&gt;</i>	Min. <#>-inch thickness of the plywood or wood plank	
<i>L&lt;#&gt;</i>	Max. span of <#> inches	
<i>0.113-&lt;#1&gt;/&lt;#2&gt;</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>DensDeck</i>	Min. 1/4-inch Georgia-Pacific DensDeck	
<i>DensDeck Prime</i>	Min. 1/4-inch Georgia-Pacific DensDeck Prime	

Name	Definition
<i>Fasteners and Plates</i>	Any of the following fasteners and plates: -Dekfast DF-#12-PH3 or Dekfast DF-#14-PH3 with Dekfast PLT-R-3 or 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 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>HD Fasteners and Plates</i>	Any of the following fasteners and plates: -OMG Heavy Duty with OMG 3" Round Plate -TRUFAST #14 HD with TRUFAST 3" Metal Insulation Plate
<i>Insta-Stik</i>	Insta-Stik Roofing Adhesive
<i>Insulation</i>	One or more layers or combinations of roofing insulation listed in this report or <i>approved</i> under rule 61G20-3, such as gypsum, perlite, polyisocyanurate, polystyrene, or wood fiberboard. Insulation shall be preliminarily secured unless otherwise noted.
<i>Insulation Fasteners</i>	Any of the following fasteners and plates: -Dekfast DF-#12-PH3 or Dekfast DF-#14-PH3 with Dekfast PLT-R-3 or Galvalume Steel Hex plate -Firestone All-Purpose Fastener and Firestone Hexagonal Plate -OMG #12 Standard Roofgrip, OMG Heavy Duty, or Strap Toggle with OMG 3" Galvalume Steel 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>ISO</i>	One or more layers in any combination of: -ACFoam II -Multi-Max FA-3 -ISO 95+ GL
<i>ISO I</i>	One or more layers in any combination of: -ACFoam II -H-Shield -ISO 95+ GL
<i>ISO II</i>	One or more layers in any combination of: -ACFoam II -ACFoam III -H-Shield -ISO 95+ GL -Multi-Max FA-3
<i>LWIC</i>	Poured-in-place Cellular Lightweight Concrete with encapsulated insulation board
<i>MDP</i>	Maximum Design Pressure
<i>OB500</i>	OMG OlyBond 500
<i>OSFA</i>	Millennium One Step Foamable Adhesive
<i>Recover</i>	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. For mechanically fastened roof assemblies, the existing roof insulation thickness may be contributory in meeting the minimum insulation thickness requirements for a given assembly.
<i>SD Fasteners and Plates</i>	One of the following with steel deck: -OMG 3" Round Plate with OMG #12 Standard Roofgrip or Heavy Duty fastener -TRUFAST 3" Metal Insulation Plate with TRUFAST #12 DP or #14 HD fastener
<i>SECUROCK</i>	Min. 1/4-inch SECUROCK Gypsum-Fiber Roof Board

### 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.
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.

<b>Assembly System Numbers and Definitions</b>	
<a href="#">C-A-#</a>	Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
<a href="#">C-AM-#</a>	Assemblies with Adhered Membranes over Fastened Insulation over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i> )
<a href="#">C-M-#</a>	Mechanically Fastened Assemblies over <i>Concrete Deck</i> (New, Existing, or <i>Recover</i> )
<a href="#">CW-A-#</a>	Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)
<a href="#">CW-AM-#</a>	Assemblies with Adhered Membranes over Fastened Insulation over Cementitious Wood Fiber Deck (New or Existing)
<a href="#">G-A-#</a>	Assemblies with All Layers Adhered over Gypsum Deck (Existing)
<a href="#">LC-A-#</a>	Lightweight Concrete Assemblies with All Layers Adhered over <i>Concrete Deck</i> (New or Existing)
<a href="#">LC-M-#</a>	Mechanically Fastened Lightweight Concrete Assemblies over <i>Concrete Deck</i> (New or Existing)
<a href="#">LS-M-#</a>	Mechanically Fastened Lightweight Concrete Assemblies over <i>Steel Deck</i> (New or Existing)
<a href="#">R-A-#</a>	<i>Recover</i> Assemblies with All Layers Adhered
<a href="#">S-AM-#</a>	Assemblies with Adhered Membranes over Fastened Insulation over <i>Steel Deck</i> (New, Existing, or <i>Recover</i> )
<a href="#">S-M-#</a>	Mechanically Fastened Assemblies over <i>Steel Deck</i> (New, Existing, or <i>Recover</i> )
<a href="#">W-M-#</a>	Mechanically Fastened Assemblies over <i>Wood Deck</i> (New or Existing)

<b>Assemblies with All Layers Adhered over Concrete Deck (New or Existing)</b>							
System No.	Primer	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	<i>MDP</i> (psf)
C-A-1	ASTM D 41	Min. 1.5-inch <i>ISO</i>	ASTM D 312, Type IV hot asphalt	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>BUR</i>	<b>-45</b> <b>(Lim. 9)</b>
C-A-2	-	Min.. 1.5-inch, min. 1.25 pcf ASTM C578 EPS board	<i>CR-20</i>	<i>DensDeck</i> , <i>DensDeck Prime</i> or <i>SECUROCK</i>	<i>CR-20</i>	<i>BUR</i>	<b>-87.5</b> <b>(Lim. 9)</b>
C-A-3	-	-	-	-	-	<i>BUR</i>	<b>-90</b> <b>(Lim. 9)</b>



Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Primer	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
C-A-4	ASTM D 41	Min. 1.5-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-90 (Lim. 9)
C-A-5	-	Min. 1.5-inch ISO	-	Min 1-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-90 (Lim. 9)
C-A-6	-	-	-	-	-	BUR	-90 (Lim. 9)
C-A-7	OPTIONAL ASTM D 41	OPTIONAL Min. 1.5-inch ISO 95+ GL or ACFoam II	Insta-Stik	Min. 1/2-inch Structodek High Density Fiberboard; DensDeck or SECUROCK	Insta-Stik	BUR	-112.5 (Lim. 9)
C-A-8	OPTIONAL ASTM D 41	OPTIONAL Min. 1.5-inch ISO II	CR-20	Min. 1/2-inch Structodek High Density Fiberboard; DensDeck; DensDeck Prime or SECUROCK	CR-20	BUR	-117.5 (Lim. 9)
C-A-9	ASTM D 41	OPTIONAL Min. 1.5-inch ISO I	OB500	DensDeck or SECUROCK	OB500	BUR	-120 (Lim. 9)
C-A-10	ASTM D 41	-	-	Min. 3/4-inch Fesco Board	OB500	BUR	-120 (Lim. 9)
C-A-11	OPTIONAL ASTM D 41	OPTIONAL Min. 1.5-inch ISO I	OSFA	Min. 1/2-inch Structodek High Density Fiberboard	OSFA	BUR	-127.5 (Lim. 9)
C-A-12	-	OPTIONAL Min. 1.5-inch ISO I	OB500	DensDeck or SECUROCK	OB500	BUR	-10 (Lim. 9)
C-A-13	ASTM D 41	OPTIONAL Min. 1.5-inch ISO I	OSFA	DensDeck or SECUROCK	OSFA	BUR	-157.5 (Lim. 9)
C-A-14	ASTM D 41	-	-	-	-	BUR	-177.5 (Lim. 9)
C-A-15	-	Min.. 1.5-inch, min. 1.5 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-180 (Lim. 9)
C-A-16	ASTM D 41	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	BUR	-187.5 (Lim. 9)
C-A-17	OPTIONAL ASTM D 41	OPTIONAL Min. 1.5-inch ISO II	CR-20	Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	-187.5 (Lim. 9)
C-A-18	ASTM D 41	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-232.5 (Lim. 9)
C-A-19	-	OPTIONAL Min. 1.5-inch ISO I	OSFA	DensDeck or SECUROCK	OSFA	BUR	-232.5 (Lim. 9)
C-A-20	-	-	-	Min. 3/4-inch Fesco Board	OB500	BUR	-232.5 (Lim. 9)

Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	Primer	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
C-A-21	-	Min. 1.5-inch, min. 2.0 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-240 (Lim. 9)
C-A-22	OPTIONAL ASTM D 41	OPTIONAL Min. 1.5-inch ISO II	CR-20	DensDeck; DensDeck Prime or SECUROCK	CR-20	BUR	-262.5 (Lim. 9)
C-A-23	ASTM D 41	-	-	-	-	BUR	-267.5 (Lim. 9)
C-A-24	ASTM D 41	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	DensDeck, DensDeck Prime or SECUROCK	ASTM D 312, Type IV hot asphalt	BUR (Not with USP Mineral Cap Sheet)	-302.5 (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	Roof Cover	MDP (psf)	
C-AM-1	Insulation	Simultaneously secured with top layer	Min. 3/4-inch Fesco Board	CD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	BUR	-30 (Lim. 9)	
C-AM-2	Insulation	Simultaneously secured with top layer	DensDeck or DensDeck Prime	CD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	BUR	-45 (Lim. 9)	
C-AM-3	Insulation	Simultaneously secured with top layer	SECUROCK or Min. 1-inch Structodek High Density Fiberboard	CD Fasteners and Plates at a rate of 1 per 4 ft <sup>2</sup>	BUR	-45 (Lim. 9)	
C-AM-4	Min. 1.5-inch Composite	Insulation Fasteners at a rate of 1 per 2 ft <sup>2</sup>	OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)	
C-AM-5	Min. 1.5-inch Composite	CD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	OPTIONAL DensDeck; DensDeck Prime or SECUROCK; Min. 1/2-inch Structodek High Density Fiberboard; Min. 1.5-inch ISO 95+ GL or AC Foam II followed by min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)	
C-AM-6	Min. 1.5-inch ISO over OPTIONAL Preliminarily Secured Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Insulation Fasteners at a rate of 1 per 2 ft <sup>2</sup>	Min. 1/2-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)	

Assemblies with Adhered Membranes over Fastened Insulation over <i>Concrete Deck (New, Existing, or Recover)</i>						
System No.	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Roof Cover	MDP (psf)
C-AM-7	Min. 1.5-inch <i>ISO</i> over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	<i>CD Fasteners and Plates</i> at a rate of 1 per 2 ft <sup>2</sup>	<i>DensDeck; DensDeck Prime</i> or <i>SECUROCK</i> ; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-8	Min. 1.5-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 3.2 ft <sup>2</sup>	<i>DensDeck</i> or Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-9	Min. 2-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 4 ft <sup>2</sup>	<i>DensDeck</i> or Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-10	Min. 1.5-inch <i>Composite</i>	Simultaneously secured with top layer	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	<i>Insulation Fasteners</i> at a rate of 1 per 2 ft <sup>2</sup>	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-11	Min. 1.5-inch <i>ISO</i> over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	<i>CD Fasteners and Plates</i> at a rate of 1 per 2 ft <sup>2</sup>	<i>DensDeck, DensDeck Prime</i> or <i>SECUROCK</i>	<i>OB500</i> or <i>CR-20</i>	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-12	Min. 2-inch <i>ISO</i> over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	<i>CD Fasteners and Plates</i> at a rate of 1 per 4 ft <sup>2</sup>	<i>DensDeck</i> or <i>SECUROCK</i> ; Min. 3/4-inch Fesco Board	<i>OB500</i> or <i>CR-20</i>	<i>BUR</i>	<b>-45 (Lim. 9)</b>
C-AM-13	<i>Insulation</i>	Simultaneously secured with top layer	Min. 1/2-inch <i>SECUROCK</i>	<i>CD Fasteners and Plates</i> at a rate of 1 per 1.8 ft <sup>2</sup>	<i>BUR</i>	<b>-60 (Lim. 7)</b>
C-AM-14	Min. 2-inch <i>ISO</i> over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	<i>HD Fasteners and Plates</i> at a rate of 1 per 1.6 ft <sup>2</sup>	<i>DensDeck, DensDeck Prime</i> or <i>SECUROCK</i> ; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	<i>BUR</i>	<b>-67.5 (Lim. 7)</b>

<b>Mechanically Fastened Assemblies over Concrete Deck (New, Existing, or Recover)</b>						
System No.	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Roof Cover	MDP (psf)
C-M-1	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Min. 1.5-inch ACFoam II, ISO 95+ GL or Multi-Max FA-3	USP Base	<i>Fasteners and Plates</i> spaced 18-inch o.c. in the lap and in one (1) row in the center of the sheet	BUR	<b>-45 (Lim. 9)</b>
C-M-2	<i>Insulation</i>	-	USP Base	<i>HD Fasteners and Plates</i> spaced 6-inch o.c. in the lap and 12-inch o.c. in two (2) equally spaced, staggered rows in the center of the sheet	BUR	<b>-60 (Lim. 7)</b>
C-M-3	<i>Insulation</i>	-	USP Base	<i>HD Fasteners and Plates</i> spaced 6-inch o.c. in the lap and 6-inch o.c. in two (2) equally spaced, staggered rows in the center of the sheet	BUR	<b>-135 (Lim. 7)</b>

<b>Assemblies with All Layers Adhered over Cementitious Wood Fiber Deck (New or Existing)</b>						
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
CW-A-1	OPTIONAL Min. 2-inch ISO II	OB500	<i>DensDeck Prime</i> or <i>SECUROCK</i> or Min. 1/2-inch Structodek High Density Fiberboard	OB500	BUR	<b>-45 (Lim. 9)</b>
CW-A-2	OPTIONAL Min. 2-inch ISO II	CR-20	<i>DensDeck Prime</i> or <i>SECUROCK</i> or Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	<b>-52.5 (Lim. 9)</b>

<b>Assemblies with Adhered Membranes over Fastened Insulation over Cementitious Wood Fiber Deck (New or Existing)</b>						
System No.	Base Insulation	Base Attachment	Top Insulation	Top Attachment	Roof Cover	MDP (psf)
CW-AM-1	Min. 1-5-inch ISO I	OMG Polmer GypTec and Polymer GypTec Plate or TRUFAST TL with TL 3" Plate at a rate of 1 per 4 ft <sup>2</sup>	<i>DensDeck Prime</i> or <i>SECUROCK</i> ; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt, OB500 or CR-20	BUR	<b>-45 (Lim. 9)</b>
CW-AM-2	Min. 1-5-inch ISO I	TRUFAST Twin Loc-Nail Assembled Fastener at a rate of 1 per 2 ft <sup>2</sup>	<i>DensDeck Prime</i> or <i>SECUROCK</i> ; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt, OB500 or CR-20	BUR	<b>-45 (Lim. 9)</b>

Assemblies with All Layers Adhered over Gypsum Deck (Existing)						
System No.	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
G-A-1	Min. 1.5-inch, min. 1.25 pcf ASTM C578 EPS	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-87.5 (Lim. 9)
G-A-2	Min. 1.5-inch, min. 1.5 pcf ASTM C578 EPS	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-180 (Lim. 9)
G-A-3	OPTIONAL Min. 1.5-inch ISO II	CR-20	Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	-187.5 (Lim. 9)
G-A-4	Min. 1.5-inch, min. 2.0 pcf ASTM C578 EPS	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-240 (Lim. 9)
G-A-5	OPTIONAL Min. 1.5-inch ISO II	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-257.5 (Lim. 9)

Lightweight Concrete Assemblies with All Layers Adhered over Concrete Deck (New or Existing)							
System No.	LWIC	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
LC-A-1	Min. 200 psi Celcore, Elastzell or Mearlcrete	Min. 1.5-inch, min. 1.25 pcf ASTM C578 EPS	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-87.5 (Lim. 9)
LC-A-2	Min. 200 psi Celcore, Elastzell or Mearlcrete	OPTIONAL Min. 2-inch ISO II	CR-20	DensDeck Prime or SECUROCK; Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	-180 (Lim. 9)
LC-A-3	Min. 200 psi Celcore, Elastzell or Mearlcrete	Min. 1.5-inch, min. 1.5 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-180 (Lim. 9)

Mechanically Fastened Lightweight Concrete Assemblies over Concrete Deck (New or Existing)					
System No.	LWIC	Base Sheet	Base Sheet Attachment	Roof Cover	MDP (psf)
LC-M-1	Min. 300 psi Celcore, Elastzell or Mearlcrete	USP Base	TRUFAST Twin Loc-Nail Assembled Fastener 9-inch o.c. in the lap and 9-inch o.c. in two (2) equally spaced rows and staggered in the field of the sheet	BUR	-60 (Lim. 7)

Mechanically Fastened Lightweight Concrete Assemblies over Steel Deck (New or Existing)						
System No.	Deck Detail	LWIC	Base Sheet	Base Sheet Attachment	Roof Cover	MDP (psf)
LS-M-1	G40, L6	Min. 300 psi Celcore, Elastizell or Mearlcrete	USP Base	TRUFast Twin Loc-Nail Assembled Fastener 9-inch o.c. in the lap and 9-inch o.c. in two (2) equally spaced rows and staggered in the field of the sheet	BUR	-60 (Lim. 7)

Recover Assemblies with All Layers Adhered							
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
R-A-1	BUR or mineral cap sheet	Min.. 1.5-inch, min. 1.25 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-87.5 (Lim. 9)
R-A-2	BUR or mineral cap sheet	Min. 1.5-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-90 (Lim. 9)
R-A-3	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO II	CR-20	DensDeck, DensDeck Prime or SECUROCK; Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	-117.5 (Lim. 9)
R-A-4	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO I	OB500	DensDeck or SECUROCK	OB500	BUR	-120 (Lim. 9)
R-A-5	BUR or mineral cap sheet	-	-	Min. 3/4-inch Fesco Board	OB500	BUR	-120 (Lim. 9)
R-A-6	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO I	OSFA	Min. 1/2-inch Structodek High Density Fiberboard	OSFA	BUR	-127.5 (Lim. 9)
R-A-7	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO I	OSFA	DensDeck or SECUROCK	OSFA	BUR	-157.5 (Lim. 9)
R-A-8	BUR or mineral cap sheet	Min.. 1.5-inch, min. 1.5 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-180 (Lim. 9)
R-A-9	BUR or mineral cap sheet	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	BUR	-187.5 (Lim. 9)
R-A-10	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO II	CR-20	Min. 1/2-inch Structodek High Density Fiberboard	CR-20	BUR	-187.5 (Lim. 9)
R-A-11	BUR or mineral cap sheet	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	Min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-232.5 (Lim. 9)
R-A-12	BUR or mineral cap sheet	Min.. 1.5-inch, min. 2.0 pcf ASTM C578 EPS board	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-240 (Lim. 9)

Recover Assemblies with All Layers Adhered							
System No.	Existing Roof	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
R-A-13	BUR or mineral cap sheet	OPTIONAL Min. 1.5-inch ISO II	CR-20	DensDeck, DensDeck Prime or SECUROCK	CR-20	BUR	-262.5 (Lim. 9)
R-A-14	BUR or mineral cap sheet	OPTIONAL Min. 2-inch ISO	ASTM D 312, Type IV hot asphalt	DensDeck, DensDeck Prime or SECUROCK	ASTM D 312, Type IV hot asphalt	BUR (Not with USP Mineral Cap Sheet)	-302.5 (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	Roof Cover	MDP (psf)
S-AM-1	G40, L5	Insulation	Simultaneously secured with top layer	Min. 3/4-inch Fesco Board	SD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	BUR	-30 (Lim. 9)
S-AM-2	G40, L5	Insulation	Simultaneously secured with top layer	DensDeck or DensDeck Prime	SD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	BUR	-45 (Lim. 9)
S-AM-3	G40, L5	Insulation	Simultaneously secured with top layer	SECUROCK or Min. 1-inch Structodek High Density Fiberboard	SD Fasteners and Plates at a rate of 1 per 4 ft <sup>2</sup>	BUR	-45 (Lim. 9)
S-AM-4	G40, L5	Min. 1.5-inch Composite	Insulation Fasteners at a rate of 1 per 2 ft <sup>2</sup>	OPTIONAL Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)
S-AM-5	G40, L5	Min. 1.5-inch Composite	SD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	OPTIONAL DensDeck, DensDeck Prime or SECUROCK; Min. 1/2-inch Structodek High Density Fiberboard; Min. 1.5-inch ISO 95+ GL or ACFoam II followed by min. 3/4-inch Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)
S-AM-6	G40, L5	Min. 1.5-inch ISO over OPTIONAL Preliminarily Secured Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Insulation Fasteners at a rate of 1 per 2 ft <sup>2</sup>	Min. 1/2-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)

<b>Assemblies with Adhered Membranes over Fastened Insulation over Steel Deck (New, Existing, or Recover)</b>							
System No.	Deck Detail	Base Insulation	Base Insulation Attachment	Top Insulation	Top Insulation Attachment	Roof Cover	MDP (psf)
S-AM-7	G40, L5	Min. 1.5-inch ISO over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	SD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	DensDeck; DensDeck Prime or SECUROCK; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)
S-AM-8	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 <sup>2</sup>	DensDeck or Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)
S-AM-9	G40, L5	Min. 2-inch ISO 95+ GL	Firestone All-Purpose Fastener and Hexagonal Plate at a rate of 1 per 4 ft <sup>2</sup>	DensDeck or Min. 3/4-inch EnergyGuard Perlite or Fesco Board	ASTM D 312, Type IV hot asphalt	BUR	-45 (Lim. 9)
S-AM-10	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 <sup>2</sup>	BUR	-45 (Lim. 9)
S-AM-11	G40, L5	Min. 1.5-inch ISO over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	SD Fasteners and Plates at a rate of 1 per 2 ft <sup>2</sup>	DensDeck, DensDeck Prime or SECUROCK	OB500 or CR-20	BUR	-45 (Lim. 9)
S-AM-12	G40, L5	Min. 2-inch ISO over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	SD Fasteners and Plates at a rate of 1 per 4 ft <sup>2</sup>	DensDeck or SECUROCK; Min. 3/4-inch Fesco Board	OB500 or CR-20	BUR	-45 (Lim. 9)
S-AM-13	G40, L6	Insulation	Simultaneously secured with top layer	Min. 1/2-inch SECUROCK	SD Fasteners and Plates at a rate of 1 per 1.8 ft <sup>2</sup>	BUR	-60 (Lim. 7)
S-AM-14	G40, L6	Min. 2-inch ISO over OPTIONAL Min. 3/4-inch Fesco Board or Min. 5/8-inch DensDeck	HD Fasteners and Plates at a rate of 1 per 1.6 ft <sup>2</sup>	DensDeck, DensDeck Prime or SECUROCK; Min. 3/4-inch Fesco Board; Min. 1/2-inch Structodek High Density Fiberboard	ASTM D 312, Type IV hot asphalt	BUR	-67.5 (Lim. 7)



Mechanically Fastened Assemblies over <i>Steel Deck (New, Existing, or Recover)</i>							
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Roof Cover	MDP (psf)
S-M-1	G40, L5	Min. 3/4-inch EnergyGuard Perlite or Fesco Board	Min. 1.5-inch ISO	USP Base	Fasteners and Plates spaced 18-inch o.c. in the lap and in one (1) row in the center of the sheet	BUR	-45 (Lim. 9)
S-M-2	G40, L6	Insulation	-	USP Base	HD Fasteners and Plates spaced 6-inch o.c. in the lap and 12-inch o.c. in two (2) equally spaced, staggered rows in the center of the sheet	BUR	-60 (Lim. 7)
S-M-3	G40, L6	Insulation	-	USP Base	HD Fasteners and Plates spaced 6-inch o.c. in the lap and 6-inch o.c. in two (2) equally spaced, staggered rows in the center of the sheet	BUR	-135 (Lim. 7)

Mechanically Fastened Assemblies over <i>Wood Deck (New or Existing)</i>							
System No.	Deck Detail	Base Insulation	Top Insulation	Base Sheet	Base Sheet Attachment	Roof Cover	MDP (psf)
W-M-1	T19/32, L24, 0.113-6/6	-	-	USP 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	BUR	-60 (Lim. 7)

END OF REPORT