



**VersiFleece AC EPDM
VersiFleece AC TPO
VersiFleece KEE HP**

Hot Mopped Adhered Roofing System

Code Approval Guide

January 2024

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Underwriter Laboratories
Hot Mopped (Asphalt) Adhered Roofing System

Non-Combustible- ANSI/UL 790 Spread of Flame Test- Class A

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

System ID	Deck Type	Insulation/Base	Cover Board	Maximum Slope		
				VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
1	Non-Combustible	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber Roof Board	2"	1"	Unlimited
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board	2"	1"	Unlimited
3		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" Recovery Board	2"	1"	2"
4		One or more layers of the Versico Type G2 base sheet, hot mopped or mechanically fastened.	N/A	2"	1"	2"
5	Precast concrete with grouted joints	N/A	N/A	2"	1"	2"
6	Structural (poured-in-place) concrete	N/A	N/A	2"	1"	2"

Underwriter Laboratories
Hot Mopped (Asphalt) Adhered Roofing System

Combustible (1)- ANSI/UL 790 Spread of Flame Test- Class A

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope		
				VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class A						
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	2"	1"	3"
2	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	1"	2"
3	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	2"	1"	Unlimited

Underwriter Laboratories
Hot Mopped (Asphalt) Adhered Roofing System

**Existing UL Rating Retained - Non-Combustible or Combustible
(Directly over existing Class A, B or C)**

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Non-Combustible: Steel; St. Concrete; Gypsum; Tectum (Min. 2" thick)

Combustible: 7/16-in. (minimum) thick non-veneer APA-rated sheathing (oriented strand board panels, structural particleboard panels, composite panels or waferboard panels); 15/32-in. (minimum) thick plywood 3/4 in. (minimum) wood; Tectum (less than 2" thick)

System ID	Deck Type	Insulation	Cover Board	Maximum Slope		
				VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
1	Combustible or Non-Combustible	Smooth Asphalt BUR (Type III or IV Asphalt)	N/A	1/2"	1/2"	1/2"
2		Mineral Surfaced Cap Sheet	N/A	1/2"	1/2"	1/2"
3		Modified Bitumen	N/A	1/2"	1/2"	1/2"

Mechanically Fastened Membrane - Recover

Membrane Width	Spacing	Rating	Min. 22 Gauge Grade C Steel (33 ksi)		
			VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
10 Feet	6"	1-105	138293-0-0	138702-0-0	N/A

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

Securock- New Construction

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
FM Approved	Loose laid	Min. 1/4" Securock	12 (2.66 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	-	-	389427-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" Securock	8 (4 sq. ft) SecurFAST Plate	1-90	-	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	8 (4 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-75	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-90	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft)	1-150	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-270	-	-	375702-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	6" ribbons of DASH	1-90	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1/4" Securock	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	Min. 1/4" Securock	4" ribbons of DASH	1-165	-	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Steel Deck (Min. 22-Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 70 SA and Cav-Grip 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

Securock- New Construction

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Steel Deck (Min. 22-Gauge) with SureMB 90 TG or 120 TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-270	-	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" Securock	Hot Asphalt	1-270	-	-	-
Concrete Deck with VapAir Seal 725TR and CAV-GRIP 3V							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" Securock	12" ribbons of DASH	1-255	-	-	-
Concrete Deck with SureMB 70 SA with CAV-GRIP 3V Primer							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" Securock	12" ribbons of DASH	1-255	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" Securock	12" ribbons of DASH	1-255	-	-	-
Min. 1-1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/2" Securock	Hot Asphalt	1-270	-	-	483488-0-0
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)							
FM Approved	Loose laid	Min. 1/4" Securock	12 (2.67 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft)	1-150	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-255	-	-	-

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

Securock- Recover

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-

Note: Recover approvals in this document are based on the following existing roofing system assumption - the existing Smooth Asphalt BUR or Modified Bitumen was FM Approved at the time of insulation.

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

DensDeck Prime- New Construction

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	106651-0-0	-	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	5/8" DensDeck Prime	8 (4 sq. ft)	1-90	106648-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq.ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" DensDeck Prime	18 (1.8 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	188315-0-0	189734-0-0	375582-0-0
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	Min. 1/4" DensDeck Prime	4" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Steel Deck with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Steel Deck with SureMB 70 SA and CAV-GRIP 3V Primer							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Steel Deck with SureMB 90TG or 120TG Base Torch Applied							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	Hot Asphalt	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq.ft)	1-90	-	210494-0-0	-

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

DensDeck Prime- New Construction

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90 Cav-Grip 3V	-	-	-
				1-90 702-LV	-	-	-
				1-90 702	-	-	-
Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking							
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq. ft)	1-90	-	-	-

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

DensDeck Prime- Recover

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base and Top Layer Adhesive: DASH = Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Concrete Deck							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-

Note: Recover approvals in this document are based on the following existing roofing system assumption - the existing Smooth Asphalt BUR or Modified Bitumen was FM Approved at the time of insulation.

FM Approvals
Hot Mopped (Asphalt) Adhered Roofing System

Recovery Board- New Construction

Membrane Type: VersiFleece AC Plus EPDM Membrane
VersiFleece AC TPO Membrane
VersiFleece KEE HP Membrane

Membrane Adhesive: Hot Asphalt

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	VersiFleece AC EPDM	VersiFleece AC TPO	VersiFleece KEE HP
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
FM Approved	Loose laid	Min. 1/2" Recovery Board	16 (2 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Recovery Board	Hot asphalt	1-90	-	325133-0-0	-
Concrete Deck							
Min. 1" VersiCore Polyiso	Hot Asphalt	Min. 1/2" Recovery Board	Hot Asphalt	1-300	-	292371-0-0	-
Min. 1" VersiCore Polyiso	Hot Asphalt	Min. 1/2" Recovery Board	Hot Asphalt	1-270	292289-0-0	-	-
Concrete Deck with SureMB 90 Base Ply Hot Asphalt attached/Cut-Back Asphalt Primer							
Min. 1" VersiCore Polyiso	Hot Asphalt	Min. 1/2" Recovery Board	Hot Asphalt	1-300	-	-	375598-0-0
Cellular Lightweight Insulating Concrete Over Steel Decking							
FM Approved	Loose laid	Min. 1/2" Recovery Board	16 (2 sq. ft)	1-90	-	-	-

Hot Mopped (Asphalt) Adhered Roofing System

Reference Notes

1. Any roof covering system listed for use over a combustible roof deck can be installed over a non-combustible roof deck and achieve the same classification.
2. All insulation joints must be staggered a minimum of 6 inches from the deck joints or from the insulation joints directly below.
3. HPV fastener/Insulation plate.
4. InsulTITE fastener/Insulation plate.
5. InsulTITE fastener/SecurFAST Insulation Fastening plate.

Versico Roofing Systems, a division of Carlisle Construction Materials LLC

800-992-7663

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VersiFleece KEE HP Membrane and DASH are Trademarks
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