



**VersiFleece EPDM, TPO and PVC
Adhered Roofing Systems with Flexible DASH Adhesive**

Code Approval Guide

November 2025

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

Membrane Adhesive: Flexible DASH and Flexible DASH Dual Tank. Either adhesive may be applied using full coverage, beads spaced maximum 12-inches on center or splatter per Versico Specifications.

Membrane Type:
 VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope				
				Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
1	Non-Combustible	VersiCore or SecurShield- any combination, any thickness	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	2-1/2"	1-1/2"
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1"	1/2" (100 & 115-mil Only)	1/2"	2-1/2"	2-1/2"
3		Minimum 1" layer of VersiCore or SecurShield over any UL Classified EPS or XPS Insulation, maximum 1.25 pcf, any thickness	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	1"	1"
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	2"	1-1/2"
5		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber & Upright Glass Mat Roof Boards	2"	1" (145-mil Only)	2"	3"	Unlimited
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck/DensDeck Prime Roof Boards	2"	1" (145-mil Only)	2"	3"	Unlimited
7		Any UL Classified Insulation, any thickness (OPTIONAL)	1/2" Recovery Board	1"	1/2" (100 & 115-mil Only)	1"	2-1/2"	2-1/2"
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell Glass Mat/DEXcell FA Glass Mat Roof Boards	2"	1" (145-mil Only)	2"	3"	Unlimited
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or minimum 1-1/2" DuraFaceR	1"	1/2" (100 & 115-mil Only)	1"	2-1/2"	2-1/2"
10		Any UL Classified Insulation, any thickness (OPTIONAL)	Min. 5/16" DuraStorm VSH	1/2"	1/2" (100 & 115-mil Only)	1/4"	2-1/2"	1-1/2"
10	Cellular Lightweight Concrete	N/A	N/A	1"	1/2" (100 & 115-mil Only)	1"	2-1/2"	2-1/2"
11	Precast concrete with grouted joints	N/A	N/A	1"	1/2" (100 & 115-mil Only)	1"	2-1/2"	2-1/2"
12	Structural (poured-in-place) concrete	N/A	N/A	1"	1/2" (100 & 115-mil Only)	1"	2-1/2"	2-1/2"

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

Membrane Adhesive: Flexible DASH and Flexible DASH Dual Tank. Either adhesive may be applied using full coverage, beads spaced maximum 12-inches on center or splatter per Versico Specifications.

VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane

Membrane Type: VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane

VersiFleece KEE HP - 105, 115 or 135 membrane

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	Thermal Barrier/ Base Sheet	Insulation	Cover Board	Maximum Slope				
				Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
Combustible - ANSI/UL 790 Spread of Flame Test-Class A								
1	Minimum 1/4" SECUROCK® Gypsum Fiber or Ultralight Glass Mat Roof Board (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	2-1/2"	1-1/2"
2	Minimum 1/4" DensDeck or DensDeck Prime Roof Boards (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	2-1/2"	1-1/2"
3	Minimum 1/4" DEXcell Glass Mat/DEXcell FA Glass Mat Roof Boards	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	2-1/2"	1-1/2"
4	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite is placed directly over a combustible roof deck. An optional layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1" thick top layer, any combination, any thickness. (3)	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	1/2"	1/2"
5	N/A	Minimum 1" thick layer of SecurShield or SecurShield HD Composite over a minimum 3-1/2" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	1/2"	1/2"
6	N/A	OPTIONAL layer or layers of any Versico Polyisocyanurate Insulation may be used below the minimum 1/2" thick top layer, any combination, any thickness. (3)	1/2" thick SecurShield HD or SecurShield HD Plus is placed directly over a combustible roof deck. (3)	1/2"	1/2" (100 & 115-mil Only)	1/4"	1"	1"
7	N/A	Minimum 4" thick layer of any UL Classified EPS insulation is placed directly over a combustible roof deck. (3)	1/2" thick SecurShield HD or SecurShield HD Plus. (3)	1/2"	1/2" (100 & 115-mil Only)	1/4"	1/2"	1/2"
8	N/A	Minimum 1-1/2" layer of Insulfoam HD Composite over a minimum 3" layer of Insulfoam EPS. (2)	N/A	1/2"	1/2" (100 & 115-mil Only)	1/4"	1/2"	1/2"
9	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	2"	1" (145-mil Only)	2"	3"	3"
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	1" (145-mil Only)	2"	2"	2"
11	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber Roof Board (2)	2"	1" (145-mil Only)	2"	3"	4"

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

Membrane Adhesive: Flexible DASH and Flexible DASH Dual Tank. Either adhesive may be applied using full coverage, beads spaced maximum 12-inches on center or splatter per Versico Specifications.

VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane

Membrane Type: VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane

VersiFleece KEE HP - 105, 115 or 135 membrane

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	Thermal Barrier/ Base Sheet	Insulation	Cover Board	Maximum Slope				
				Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
12	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Ultralight Coated Glass Mat Roof Board (2)	2"	1" (145-mil Only)	2"	3"	Unlimited
13	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	2"	1" (145-mil Only)	2"	3"	Unlimited
14	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DEXcell FA Glass Mat Roof Boards	2"	1" (145-mil Only)	2"	3"	Unlimited
15	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2" (100 & 115- mil Only)	1/4"	3/4"	3/4"

UL Approval - Combustible (1) and Non-Combustible - ANSI/UL 790 Spread of Flame Test - Class B and C

Membrane Adhesive: Flexible DASH and Flexible DASH Dual Tank. Either adhesive may be applied using full coverage, beads spaced maximum 12-inches on center or splatter per Versico Specifications.

Membrane Type:
 VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

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	Thermal Barrier/ Base Sheet	Insulation	Cover Board	Maximum Slope				
				Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class B								
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	N/A	1"	N/A	4"	N/A
2	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime or 3/8" SECUROCK® Gypsum Fiber Roof Boards (2)	N/A	1"	N/A	4"	N/A
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class C								
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness. Optionally, any UL Classified insulation, any combination, any thickness may be used below the Versico Polyisocyanurate Insulation.	N/A	Unlimited	N/A	Unlimited	Unlimited	N/A
2	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness. (OPTIONAL)	Minimum 7/16" DuraStorm VSH	1/2"	1/2"	1/2"	1/2"	1/2"
Non-Combustible - ANSI/UL 790 Spread of Flame Test-Class C								
1	N/A	Any combination, any thickness of UL Classified Versico Polyisocyanurate Insulation	N/A	N/A	3/4" (145-mil)	N/A	N/A	N/A
2	N/A	Any Insulfoam EPS product, maximum 2 pcf density, any thickness.	N/A	2"	2"	2"	2"	2"
3	N/A	Any UL Classified Insulation, any thickness.	1/2" Recovery Board	N/A	1" (145-mil)	N/A	N/A	N/A

Existing UL Rating Retained - Non-Combustible or Combustible (Membrane Direct to Existing Class A, B or C roof covering system)

System ID	Deck Type	Substrate	Membrane/ Maximum Slope
1	Combustible or Non-Combustible	Any Existing Class A, B or C roof covering system	Black VersiFleece Membranes, VersiFleece PVC Membranes or VersiFleece KEE HP Membranes. Maximum incline shall be in accordance with Classification established for the existing roof covering system, but cannot exceed 2:12.
2		Any Existing Class A, B or C roof covering system	White VersiFleece Membranes (100 & 115-mil only) & TPO VersiFleece Membranes. Maximum incline shall be in accordance with Classification established for the existing roof covering system, but cannot exceed 1:12.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:**
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
FM Approved	Loose Laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-	-
FM Approved	Loose Laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	400037-0-0	400038-0-0	400040-0-0	400043-0-0	400043-0-0
Min. 1-1/2" VersiCore Polyiso	Loose Laid	1/2" SecurShield HD	10 (3.2 sq. ft)	1-90	326686-0-0	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	-	-	552117-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	443435-0-0 6" o.c.	443441-0-0 6" o.c.	396796-0-0	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft)	1/2" SecurShield HD	6" ribbons or Rig Splatter of DASH	1-165	-	-	399875-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-165	-	-	-	-	-
Min. 2" VersiCore Polyiso	24 (1.33 sq. ft)	1/2" SecurShield HD	4" ribbons or Rig Splatter of DASH	1-165	-	-	-	433763-0-0 4" o.c.	433764-0-0 4" o.c.
Min. 2" VersiCore Polyiso	24 (1.33 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	4" ribbons or Rig Splatter of DASH	1-165	-	-	-	-	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	Rig Splatter of DASH	1-240	561937-0-0	-	-	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	563940-0-0	-	-
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)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	345889-0-0 4" o.c.	345891-0-0 4" o.c.	345892-0-0 4" o.c.	345894-0-0 4" o.c.	345895-0-0 4" o.c.
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	568203-0-0	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 70 SA and Cav-Grip 3V									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 90TG, 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1/2" SecurShield HD over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-

Concrete Deck									
Min. 1" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons or Rig splatter of DASH	1-315	341352-0-0 4" o.c.	341361-0-0 4" o.c.	341359-0-0 4" o.c.	384625-0-0 4" o.c.	341379-0-0 4" o.c.
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	-	397947-0-0 4" o.c.	-	-
Min. 2" Insulfoam VIII Roofing EPS over Min. 2" ChannelDry EPS	8 (4 sq. ft)	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	-	445239-0-0	445241-0-0	-
Min. 2" ChannelDry EPS	12" ribbons of DASH	1/2" SecurShield HD over Min. 1" Insulfoam Roofing EPS	6" ribbons of DASH	1-180	491164-0-0	491174-0-0	-	-	491178-0-0
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-255	434269-0-0 4" o.c.	-	450325-0-0 4" o.c.	-	-
				1-165	-	-	-	459961-0-0 6" o.c.	459962-0-0 6" o.c.
Min. 3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-165	437579-0-0 4" o.c.	-	-	437598-0-0 4" o.c.	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-285	-	-	-	-	-
Concrete Deck with SureMB 90TG, 120TG Base Torch Applied and Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-255	-	-	-	-	-
Gypsum Deck									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete over Steel Decking (Min. 22-Gauge)									
FM Approved	Loose Laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-	-
FM Approved	Loose Laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	-	-	-	-	-
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-	-
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Ratings - Recover

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:**
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-	-	-
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	427487-0-0	427488-0-0	427489-0-0	427492-0-0	427493-0-0
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	-	-	-	-
-	-	1/2" SecurShield HD	4" ribbons of DASH	1-150	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso or SecurShield	6" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	394761-0-0 (12" o.c.)	-	-	-	-
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-150	-	-	-	-	-
Gypsum Deck									
-	-	1/2" SecurShield HD	6" 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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Plus Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:**
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	430037-0-0	430038-0-0	430039-0-0	430040-0-0	430041-0-0
FM Approved	Loose laid	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	418929-0-0	418939-0-0	418931-0-0	418932-0-0	418933-0-0
FM Approved	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-225	418930-0-0	418940-0-0	418936-0-0	418937-0-0	418938-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus over Min. 1.5" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	485966-0-0 6" o.c.	485969-0-0 6" o.c.	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus over Min. 1.5" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons or Rig Splatter of DASH	1-165	-	-	399875-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD Plus over Min. 1.5" VersiCore	6" ribbons or Rig Splatter of DASH	1-165	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons or Rig Splatter of DASH	1-165	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD Plus over Min. 1.5" VersiCore	4" ribbons or Rig Splatter of DASH	1-165	-	-	-	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	563940-0-0	-	-
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.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	345889-0-0 4" o.c.	345891-0-0 4" o.c.	345892-0-0 4" o.c.	345894-0-0 4" o.c.	345895-0-0 4" o.c.
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	568203-0-0	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	-	-	-	-	-
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.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Plus Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge) with SureMB 90TG, 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-225	-	-	-	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	Full-Coverage DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-255	-	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-255	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
FM Approved	Loose laid	1/2" SecurShield HD Plus	8 (2.67 sq. ft)	1-90	-	-	-	-	-
-	-	1/2" SecurShield HD Plus	8 (2.67 sq. ft)	1-90	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Plus Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:** Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	473542-0-0	-	-	459682-0-0	-
-	-	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	473539-0-0	-	-	-	-
-	-	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-225	482108-0-0	-	481547-0-0	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-	-	-
-	-	1/2" SecurShield HD Plus	4" ribbons of DASH	1-135	-	-	548766-0-0	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-150	-	-	-	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-150	-	-	-	-	-
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-	-	459091-0-0	459094-0-0
Gypsum Deck									
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" 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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

VersiCore Polyiso Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	154319-0-0 12" o.c.	-	-	343888-0-0 12" o.c.	343888-0-0 12" o.c.
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	-	-	1-90	212395-0-0 12" o.c.	212402-0-0 12" o.c.	212428-0-0 12" o.c.	343950-0-0 12" o.c.	343950-0-0 12" o.c.
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-150	-	-	-	-	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft)	-	-	1-210	399326-0-0	-	-	-	-
Min. 1" VersiCore Polyiso	Loose laid	Min. 2" VersiCore Polyiso	32 (1 sq. ft)	1-225	399320-0-0	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	208668-0-0 12" o.c.	212387-0-0 12" o.c.	212419-0-0 12" o.c.	343911-0-0 12" o.c.	343911-0-0 12" o.c.
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	208816-0-0 12" o.c.	212402-0-0 12" o.c.	212427-0-0 12" o.c.	343914-0-0 12" o.c.	323869-0-0 12" o.c.
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1-1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-105	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-165	432889-0-0 6" o.c.	-	212367-0-0 6" o.c.	-	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1" VersiCore Polyiso	4" ribbons or Rig Sp:atter of DASH	1-225	-	-	548452-0-0 4" o.c.	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	353054-0-0 12" o.c.	-
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)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	160985-0-0	160997-0-0	-	452038-0-0 12" o.c.	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft)	1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	561932-0-0	-	-	-	-
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)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

VersiCore Polyiso Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge) with SureMB 90TG and 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	-	-	1-315	-	-	-	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	-	-	1-255	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	Rig Splatter of DASH	-	-	1-285	561949-0-0	-	-	-	-
Min. 2" VersiCore Polyiso	Full Coverage	-	-	1-420	-	-	495493-0-0 Full Coverage	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-330	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	-	-	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	-	-	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-150	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

VersiCore Polyiso Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:** Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
1" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	-	-	-	-
1" VersiCore Polyiso	6" ribbons of DASH	-	-	1-150	384630-0-0	-	-	385465-0-0	385466-0-0
Concrete Deck									
Min. 1/2" VersiCore Polyiso	Hot Asphalt	-	-	1-90	-	-	-	-	-
Gypsum Deck									
Min. 1" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	-	-	-	-
Min. 1" VersiCore Polyiso	6" 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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 1-1/2" SecurShield	16 (2 sq. ft.)	-	-	1-90	154319-0-0 12" o.c.	154316-0-0 12" o.c.	154480-0-0 12" o.c.	343888-0-0 12" o.c.	343888-0-0 12" o.c.
Min. 2" SecurShield	8 (4 sq. ft.)	-	-	1-90	212395-0-0 12" o.c.	212403-0-0 12" o.c.	212428-0-0 12" o.c.	343950-0-0 12" o.c.	343950-0-0 12" o.c.
Min. 2" SecurShield	20 (1.6 sq. ft.)	-	-	1-165	212368-0-0 6" o.c.	212376-0-0 6" o.c.	283869-0-0 6" o.c.	324020-0-0 6" o.c.	324020-0-0 6" o.c.
Min. 2" SecurShield	32 (1 sq. ft.)	-	-	1-270	245553-0-0 4" o.c.	-	283872-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 2" SecurShield	32 (1 sq. ft.)	1-270	432890-0-0	-	-	-	-
Min. 2" SecurShield	32 (1 sq. ft.)	-	-	1-225	399421-0-0	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1" SecurShield	12" ribbons or Rig Splatter of DASH	1-90	-	212387-0-0 12" o.c.	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1" SecurShield	12" ribbons or Rig Splatter of DASH	1-90	208816-0-0 12" o.c.	212402-0-0 12" o.c.	212427-0-0 12" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1" SecurShield	6" ribbons or Rig Splatter of DASH	1-165	212367-0-0 6" o.c.	212375-0-0 6" o.c.	212413-0-0 6" o.c.	343906-0-0 6" o.c.	343906-0-0 6" o.c.
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1" SecurShield	4" ribbons or Rig Splatter of DASH	1-225	-	-	548452-0-0 4" o.c.	-	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1-1/2" SecurShield	12" ribbons of DASH	1-90	352968-0-0 12" o.c.	353039-0-0 12" o.c.	353032-0-0 12" o.c.	353054-0-0 12" o.c.	353059-0-0 12" o.c.
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. 1-1/2" SecurShield	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1-1/2" SecurShield	DASH - Rig Splatter	1-240	561932-0-0	-	-	-	-
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. 1-1/2" SecurShield	12" ribbons DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield	12" ribbons DASH	1-135	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge) with SureMB 90TG and 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield	12" ribbons DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield	12" ribbons DASH	1-135	-	-	-	-	-
Concrete Deck									
3/4" Optim-R	12" ribbons of DASH	Min. 1/2" SecurShield	12" ribbons of DASH	1-90	438096-0-0	438105-0-0	-	-	-
3/4" Optim-R	12" ribbons of DASH	Min. 1/2" SecurShield	12" ribbons of DASH	1-120	-	-	-	438114-0-0	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
3/4" Optim-R	12" ribbons of DASH	Min. 1/2" SecurShield	12" ribbons of DASH	1-165 702	437579-0-0	-	-	437598-0-0	-
3/4" Optim-R	12" ribbons of DASH	Min. 1/2" SecurShield	12" ribbons of DASH	1-90 702	437581-0-0	437588-0-0	-	-	-
Min. 1-1/2" SecurShield	Rig Splatter of DASH	-	-	1-285	561949-0-0	-	-	-	-
Min. 1-1/2" SecurShield	12" ribbons or Rig Splatter of DASH	-	-	1-255	-	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1" SecurShield	12" ribbons of DASH	1-285	-	-	-	-	-
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" SecurShield	12" ribbons of DASH	1-330	-	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1" SecurShield	12" ribbons of DASH	1-225	-	-	427205-0-0	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" SecurShield	16 (2 sq. ft.)	-	-	1-90	-	-	-	-	-
Min. 1-1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" SecurShield	12" ribbons or Rig Splatter of DASH	-	-	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
Min. 1-1/2" SecurShield	16 (2 sq. ft.)	-	-	1-75	-	-	-	-	-
Min. 2" SecurShield	8 (4 sq. ft.)	-	-	1-90	-	-	-	-	-
Min. 2" SecurShield	20 (1.6 sq. ft.)	-	-	1-150	-	-	-	-	-
Min. 2" SecurShield	32 (1 sq. ft.)	-	-	1-270	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-	-	-	-
1" SecurShield	16 (2 sq. ft)	-	-	1-90	-	-	400218-0-0	400220-0-0	400220-0-0
Concrete Deck									
1-1/2" SecurShield	12" ribbons of DASH	-	-	1-90	154475-0-0 12" o.c.	-	-	-	-
Gypsum Deck									
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-	-	-	-
1" SecurShield	Full-Coverage DASH	-	-	1-90	-	-	-	-	-

Note: Recover approvals in this document are based on the following existing roofing system assumption - the existing smooth Asphalt BUR, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Composite Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:**
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 2" SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	303555-0-0 12" o.c.	-	303579-0-0 12" o.c.	-	324073-0-0 12" o.c.
Min. 2" SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	303560-0-0 12" o.c.	-	303584-0-0 12" o.c.	-	324078-0-0 12" o.c.
Min. 2" SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-165	212368-0-0 6" o.c.	-	303593-0-0 6" o.c.	-	324095-0-0 6" o.c.
Min. 2" SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-270	245553-0-0 4" o.c.	-	303613-0-0 4" o.c.	-	-
Min. 2" SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-225	399335-0-0 4" o.c.	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose Laid	Min. 2" SecurShield HD Composite	6 (5.33 sq. ft.)	1-90	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose Laid	Min. 2" SecurShield HD Composite	8 (4 sq. ft.)	1-90	-	-	446124-0-0 12" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	-	-	303587-0-0 12" o.c.	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	303558-0-0 12" o.c.	-	303591-0-0 12" o.c.	-	324080-0-0 12" o.c.
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1" SecurShield HD Composite	6" ribbons or Rig Splatter of DASH	1-105	-	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 2" SecurShield HD Composite	6" ribbons or Rig Splatter of DASH	1-165	212367-0-0 6" o.c.	-	303592-0-0 6" o.c.	-	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1-1/2" SecurShield HD Composite	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. 2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	1-90	303325-0-0 4" o.c.	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" SecurShield HD Composite	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 2" SecurShield HD Composite	DASH - Rig Splatter	1-240	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

SecurShield HD Composite Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
Base Layer and
Top Layer Adhesive:**
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
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. 2" SecurShield HD Composite	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" SecurShield HD Composite	6" ribbons of DASH	1-135	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 90TG or 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" SecurShield HD Composite	6" ribbons of DASH	1-135	-	-	-	-	-
Concrete Deck									
Min. 1/2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	-	-	1-225	-	-	-	-	-
Concrete Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	-	-	1-255	-	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1" SecurShield HD Composite	12" ribbons of DASH	1-285	-	-	-	-	-
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" SecurShield HD Composite	12" ribbons of DASH	1-330	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	-	-	-	-	-
Min. 1-1/2" SecurShield HD Composite	12" ribbons of DASH	-	-	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" SecurShield HD Composite	12" ribbons or Rig Splatter of DASH	-	-	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
Min. 1-1/2" SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-75	-	-	-	-	-
Min. 2" SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	-	-	-	-	-
Min. 2" SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-150	-	-	-	-	-
Min. 2" SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-225	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

Securock Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					Roof/NAV 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	326686-0-0 4" o.c.	-	394640-0-0 4" o.c.	375484-0-0 4" o.c.	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft.) SecurFAST Plate	1-90	-	-	443298-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	8 (4 sq. ft.) SecurFAST Plate	1-90	-	-	443330-0-0 4" o.c.	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft.)	1-90	-	-	394641-0-0 4" o.c.	375486-0-0 4" o.c.	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	8 (4 sq. ft.) SecurFAST Plate	1-90	443308-0-0 4" o.c.	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	6 (5.33 sq. ft.) SecurFAST Plate	1-75	-	-	443377-0-0 4" o.c.	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 5/8" Securock	6 (5.33 sq. ft.) SecurFAST Plate	1-90	-	-	443346-0-0 4" o.c.	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft.)	1-150	-	-	394642-0-0 4" o.c.	-	373594-0-0 4" o.c.
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft.)	1-270	399129-0-0	399128-0-0	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	6" ribbons or Rig Splatter of DASH	1-90	345932-0-0 4" o.c. or Splatter	345885-0-0 4" o.c.	345886-0-0 4" o.c. or Splatter	345887-0-0 4" o.c. or Splatter.	385078-0-0 4" o.c. or Splatter
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	4" ribbons or Rig Splatter of DASH	1-90	-	-	400153-0-0 4" o.c.	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	555467-0-0	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock	12" ribbons or Rig Splatter of DASH	1-120	466248-0-0 4" o.c.	511655-0-0 4" o.c.	511656-0-0 4" o.c.	511657-0-0 4" o.c.	511658-0-0 4" o.c.
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-105	466244-0-0 4" o.c.	-	-	479294-0-0 4" o.c.	479294-0-0 4" o.c.
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock	6" ribbons or Rig Splatter of DASH	1-135	513071-0-0 4" o.c.	515729-0-0 4" o.c.	513072-0-0 4" o.c.	513073-0-0 4" o.c.	513074-0-0 4" o.c.
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-135	-	-	-	-	-
Min. 3" InsulFoam EPS	16 (2 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" Securock	4" ribbons or Rig Splatter of DASH	1-225	-	-	459647-0-0 4" o.c.	-	549101-0-0 4" o.c.
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	4" ribbons or Rig Splatter of DASH	1-225	-	-	-	-	-
Min. 5/8" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	483459-0-0 6" o.c.	400158-0-0 4" o.c.	-
-	-	Min. 1/2" Securock	20 (1.6 sq. ft.)	1-150	493784-0-0 4" o.c.	493785-0-0 4" o.c.	493786-0-0 4" o.c.	-	-
-	-	Min. 1/2" Securock	32 (1.0 sq. ft.)	1-255	493787-0-0 4" o.c.	493788-0-0 4" o.c.	493789-0-0 4" o.c.	-	-
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 or Rig Splatter of DASH	1-90	459964-0-0 12" o.c.	459965-0-0 12" o.c.	317157-0-0 6" o.c.	343678-0-0 4" o.c.	459965-0-0 12" o.c.
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

Securock Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					Roof/NAV Number				
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. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 90TG or 120TG 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. 1/2" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-270	-	-	-	459251-0-0 4" o.c.	459262-0-0 4" o.c.
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft.)	1-90	-	-	-	397995-0-0	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft.)	1-150	-	-	-	398844-0-0 4" o.c.	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft.)	1-270	-	-	-	398845-0-0	-
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" Securock	12" ribbons or Rig Splatter of DASH	1-120	513066-0-0 4" o.c.	513067-0-0 4" o.c.	513068-0-0 4" o.c.	513069-0-0 4" o.c.	513070-0-0 4" o.c.
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" Securock	6" ribbons or Rig Splatter of DASH	1-135	513075-0-0 4" o.c.	513076-0-0 4" o.c.	513077-0-0 4" o.c.	513078-0-0 4" o.c.	513079-0-0 4" o.c.
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-255	460703-0-0 4" o.c.	-	450325-0-0 4" o.c.	-	-
				1-165	460701-0-0 6" o.c.	-	-	-	-
				1-90	460700-0-0 12" o.c.	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-285	-	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-255	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons or Rig Splatter 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	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

Securock Ratings - Recover

Membrane Type:
 VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

**Membrane,
 Base Layer and
 Top Layer Adhesive:**
 Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DensDeck Prime Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Top Insulation Layer	Top Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	16 (2 sq. ft.)	1-90	154329-0-0	154328-0-0	154488-0-0	343633-0-0	384857-0-0
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq. ft.)	1-90	454399-00	-	439660-0-0	-	-
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 1/4" DensDeck Prime	18 (1.8 sq. ft.)	1-105	-	-	-	452710-0-0	452711-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft.)	1-135	543857-0-0 4" o.c.	-	-	495280-0-0 4" o.c.	495281-0-0 4" o.c.
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft.)	1-150	-	-	-	495278-0-0 4" o.c.	495279-0-0 4" o.c.
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft.)	1-165	328907-0-0 Splatter	328905-0-0 Splatter	328909-0-0 Splatter	343755-0-0 Splatter	385028-0-0 Splatter
Min. 1" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft.)	1-255	399337-0-0 Splatter	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft.)	1-270	203920-0-0 Splatter	203919-0-0 Splatter	211699-0-0 Splatter	386393-0-0 Splatter	385029-0-0 Splatter
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	212382-0-0 12" o.c.	212390-0-0 12" o.c.	212422-0-0 12" o.c.	343651-0-0 12" o.c.	343651-0-0 12" o.c.
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	212397-0-0 12" o.c.	212405-0-0 12" o.c.	212430-0-0 12" o.c.	343655-0-0 12" o.c.	343655-0-0 12" o.c.
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-120	466248-0-0 4" o.c.	511655-0-0 4" o.c.	511656-0-0 4" o.c.	511657-0-0 4" o.c.	511658-0-0 4" o.c.
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-105	466244-0-0 4" o.c.	-	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime	6" ribbons or Rig Splatter of DASH	1-135	513071-0-0 4" o.c.	515729-0-0 4" o.c.	459646-0-0 4" o.c.	513073-0-0 4" o.c.	513074-0-0 4" o.c.
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	Min. 1/2" DensDeck Prime	4" ribbons or Rig Splatter of DASH	1-225	-	-	459647-0-0 4" o.c.	-	549101-0-0 4" o.c.
Min. 3" InsulFoam EPS	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime	6" ribbons of DASH	1-135	-	-	516925-0-0 4" o.c.	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	8 (4 sq. ft.)	Min. 1/2" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	483459-0-0	-	-
-	-	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft.)	1-150	493784-0-0 4" o.c.	493785-0-0 4" o.c.	493786-0-0 4" o.c.	-	-
-	-	Min. 1/2" DensDeck Prime	32 (1.0 sq. ft.)	1-255	493787-0-0 4" o.c.	493788-0-0 4" o.c.	493789-0-0 4" o.c.	-	-
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" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons or Rig Splatter of DASH	1-90	459964-0-0 12" o.c.	459965-0-0 12" o.c.	317157-0-0 6" o.c.	343679-0-0 6" o.c.	343679-0-0 6" o.c.
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	Min. 1/2" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DensDeck Prime Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Top Insulation Layer	Top Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
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" DensDeck Prime 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" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 90TG and 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" DensDeck Prime 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" DensDeck Prime 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" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-315	-	-	-	400227-0-0 Spray	400231-0-0 Spray
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	464243-0-0 12" o.c.	464244-0-0 12" o.c.
Min. 2" VersiCore Polyiso	16 (2 sq. ft.)	Min. 1/2" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-120	513066-0-0 4" o.c.	513067-0-0 4" o.c.	513068-0-0 4" o.c.	513069-0-0 4" o.c.	513070-0-0 4" o.c.
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	Min. 1/2" DensDeck Prime	6" ribbons or Rig Splatter of DASH	1-135	513075-0-0 4" o.c.	513076-0-0 4" o.c.	513077-0-0 4" o.c.	513078-0-0 4" o.c.	513079-0-0 4" o.c.
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft.)	1-135	-	-	-	437373-0-0 4" o.c.	437389-0-0 4" o.c.
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	-	-	-	400228-0-0 Spray	400233-0-0 Spray
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	1-285	-	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	Full-Coverage FAST	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	-	-	-	392855-0-0	-
Min. 1" Insulfoam Roofing EPS	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-105	-	-	-	394471-0-0 6" o.c.	394578-0-0 6" o.c.
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	-	-	-	343688-0-0 12" o.c.	343688-0-0 12" o.c.
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of DASH	1-90	457961-0-0 12" o.c.	-	-	343688-0-0 12" o.c.	343688-0-0 12" o.c.
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
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	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DensDeck Prime Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge) with VapAir Seal 725TR and Cav-Grip 3V Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-	-	-
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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DuraFaceR Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22 Gauge)									
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 2" DuraFaceR	17 (1.9 sq. ft)	1-150	-	439043-0-0 VSH	439042-0-0 VSH	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 2" DuraFaceR	32 (1 sq. ft)	1-270	-	439045-0-0 VSH	439044-0-0 VSH	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	439066-0-0 VSH	439065-0-0 VSH	-	-
Min. 1/2" Dens Deck Prime or Securock	16 (2 sq. ft.)	Min. 2" DuraFaceRover min 1-1/2" VersiCore	12" ribbons of DASH	1-90	-	439068-0-0 VSH	439067-0-0 VSH	-	-
Min. 1/2" Dens Deck Prime or Securock	16 (2 sq. ft.)	Min. 1-1/2" Insulam OSB over Insulfoam EPS	6" ribbons of DASH	1-90	-	439058-0-0 VSH	-	-	-
Steel Deck (Min. 22-Gauge) with VapAir Seal 725TR and Cav-Grip 3V or 702 Primer									
Min. 1/2" Dens Deck Prime or Securock	16 (2 sq. ft.)	Min. 2" DuraFaceRover min 1-1/2" VersiCore	12" ribbons of DASH	1-90	-	-	439059-0-0 VSH	-	-
Min. 1/2" Dens Deck Prime or Securock	16 (2 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	483463-0-0	439062-0-0 VSH	439061-0-0 VSH	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 2" DuraFaceR	12" ribbons of DASH	1-90	-	439064-0-0 VSH	439063-0-0 VSH	-	-
Min. 1/2" Dens Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFaceRover min 1-1/2" VersiCore	6" ribbons of DASH	1-135	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DuraFaceR Ratings - New Construction

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-315	-	-	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	Full-Coverage DASH	1-270	-	439021-0-0 VSH	439020-0-0 VSH	-	-
-	-	Min. 2" DuraFaceR	Full-Coverage DASH	1-270	-	439019-0-0 VSH	439018-0-0 VSH	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 2" DuraFaceR	Hot Asphalt	1-300	-	-	-	-	-
Min. 2" ChannelDry EPS	Loose laid	Min. 2" Insulam OSB	6" ribbons of DASH	1-150	427764-0-0	427769-0-0	427778-0-0	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	Full-Coverage DASH	1-255	-	439023-0-0 VSH	439022-0-0 VSH	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-255	-	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	Full-Coverage DASH	1-255	-	-	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	12" ribbons of DASH	1-330	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 2" DuraFaceR	Full-Coverage DASH	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
FM Approved	Loose laid	Min. 2" DuraFaceR	17 (1.8 sq. ft)	1-105	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DuraFaceR Ratings - Recover

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Top Insulation Layer	Top Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22 Gauge)									
FM Approved	Loose laid	Min. 2" DuraFaceR	17 (1.8 sq. ft)	1-105	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFaceR	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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DEXcell FA Glass Mat Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft)	1-90	326686-0-0	-	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/4" DEXcell FA Glass Mat	12" ribbons or Rig Splatter of DASH	1-90	345884-0-0	-	345886-0-0	345887-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	206844-0-0	-	211592-0-0	343642-0-0	384878-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/4" DEXcell FA Glass Mat	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	343691-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore	12" ribbons or Rig Splatter of DASH	1-90	211564-0-0	-	211609-0-0	343646-0-0	384883-0-0
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore	12" ribbons of DASH	1-90	-	-	-	343704-0-0	-
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.)	1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore	12" ribbons of DASH	1-90	345253-0-0	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DEXcell FA Glass Mat Ratings - New Construction

Membrane Type:
VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive:
Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
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.)	1/4" DEXcell FA Glass Mat over Min. 1-1/2" VersiCore	6" ribbons of DASH	1-90	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons or Rig Splatter of DASH	1-315	-	-	-	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-315	-	-	-	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-285	-	-	-	-	-
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" DEXcell FA Glass Mat	12" ribbons of DASH	1-255	-	-	-	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DEXcell FA Glass Mat	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
FM Approved	Loose laid	Min. 1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft)	1-90	-	-	-	-	-

Factory Mutual Approvals
VersiFleece with Flexible DASH Adhered Roofing System

DEXcell FA Glass Mat Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
VersiFleece White EPDM - 100, 115 or 145 membrane
VersiFleece TPO - 100, 115 or 135 membrane
VersiFleece PVC - 105, 115 or 135 membrane
VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
-	-	1/2" DEXcell FA Glass Mat	10 (3.2 sq. ft)	1-90	-	-	-	-	-
-	-	1/2" DEXcell FA Glass Mat	12" ribbons of DASH	1-90	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DEXcell FA Glass Mat	6" ribbons of DASH	1-150	-	-	-	-	-
-	-	1/2" DEXcell FA Glass Mat	6" ribbons of DASH	1-150	-	-	-	-	-
Gypsum Deck									
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DEXcell FA Glass Mat	6" 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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals

DuraStorm VSH Ratings - New Construction

VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane Type:

**Membrane,
 Base Layer and
 Top Layer Adhesive:**

Flexible DASH and Flexible DASH Dual Tank (VSH Approvals are all 4" o.c. ribbons)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	461161-0-0 (VSH)	-	461162-0-0 (VSH)	-	-
FM Approved	Loose laid	1/2" DuraStorm VSH	18 (1.8 sq. ft)	1-120	461163-0-0 (VSH)	-	461164-0-0 (VSH)	-	-
FM Approved	Loose laid	1/2" DuraStorm VSH	24 (1.33 sq. ft)	1-225	461166-0-0 (VSH)	-	461168-0-0 (VSH)	-	-
FM Approved	Loose laid	1/2" DuraStorm VSH	32 (1 sq. ft.)	1-270	461112-0-0 (VSH)	-	461114-0-0 (VSH)	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" DuraStorm VSH	6" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" DuraStorm VSH	6" ribbons or Rig Splatter of DASH	1-90	461287-0-0 (VSH)	551572-0-0 (VSH)	461305-0-0 (VSH)	-	-
Min. 2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" DuraStorm VSH	6" ribbons or Rig Splatter of DASH	1-120	461201-0-0 (VSH)	-	461202-0-0 (VSH)	-	-
Min. 2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons or Rig Splatter of DASH	1-120	-	-	498829-0-0 (VSH)	-	-
Min. 2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" DuraStorm VSH	4" ribbons or Rig Splatter of DASH	1-165	461206-0-0 (VSH)	-	461207-0-0 (VSH)	482271-0-0 4" o.c.	482272-0-0 4" o.c.
Min. 2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" DuraStorm VSH	4" ribbons or Rig Splatter of DASH	1-180	461217-0-0 (VSH)	-	461218-0-0 (VSH)	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" 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.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	461290-0-0 (VSH)	479253-0-0	461314-0-0 (VSH)	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-240	-	-	-	-	-

Factory Mutual Approvals

DuraStorm VSH Ratings - New Construction

VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane Type:

**Membrane,
 Base Layer and
 Top Layer Adhesive:**

Flexible DASH and Flexible DASH Dual Tank (VSH Approvals are all 4" o.c. ribbons)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
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.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Steel Deck (Min. 22-Gauge) with SureMB 90TG, 120TG Base Torch Applied									
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" DuraStorm VSH over 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons or Rig Splatter of DASH	1-315	461179-0-0	-	461180-0-0	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1/2" VersiCore Polyiso	Full-Coverage DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-315	461175-0-0	-	461176-0-0 (VSH)	-	-
Concrete Deck with SureMB 70 SA and Cav-Grip 3V Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-285	519866-0-0	-	519867-0-0	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer									
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-255	461273-0-0 (VSH)	-	461302-0-0 (VSH)	-	-
Gypsum Deck Tear-Off									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons of DASH	1-90	-	-	-	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR and Cav-Grip 3V, 702-LV or 702 Primer									
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" DuraStorm VSH	12" ribbons or Rig Splatter of DASH	1-90	-	-	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)									
FM Approved	Loose laid	1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	-	-	-	-	-
-	-	1/2" DuraStorm VSH	8 (4 sq. ft)	1-90	-	-	-	-	-

Factory Mutual Approvals
DuraStorm VSH Ratings - Recover

Membrane Type: VersiFleece Black EPDM - 100, 115 or 145 membrane
 VersiFleece White EPDM - 100, 115 or 145 membrane
 VersiFleece TPO - 100, 115 or 135 membrane
 VersiFleece PVC - 105, 115 or 135 membrane
 VersiFleece KEE HP - 105, 115 or 135 membrane

Membrane, Base Layer and Top Layer Adhesive: Flexible DASH and Flexible DASH Dual Tank (VSH Approvals are all 4" o.c. ribbons)

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 11, 12 & 13)	Rating	Black EPDM Fleece	White EPDM Fleece	TPO Fleece	PVC Fleece	KEE HP Fleece
					RoofNAV Number				
Steel Deck (Min. 22-Gauge)									
-	-	1/2" DuraStorm VSH	16 (2 sq. ft)	1-90	-	-	-	-	-
-	-	1/2" DuraStorm VSH	12" ribbons of DASH	1-90	461280-0-0 (VSH)	-	-	-	-
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-150	466719-0-0 (VSH)	-	-	-	-
Concrete Deck									
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" ribbons of DASH	1-150	-	-	467534-0-0 (VSH)	-	-
-	-	1/2" DuraStorm VSH	6" ribbons of DASH	1-150	466720-0-0 (VSH)	-	466721-0-0 (VSH)	-	-
Gypsum Deck									
Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" DuraStorm VSH	6" 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, Modified Bitumen or single-ply system was FM approved at the time of installation. Direct membrane application over existing EPDM single-ply only.

Factory Mutual Approvals

Premiseal 60 SPF Ratings - New Construction

Membrane Type: VersiFleece White EPDM - 100, 115 or 145 membrane

Membrane and Insulation Adhesive: Flexible DASH

Base Insulation Layer	Base Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Top Insulation Layer	Top Layer Fastening <small>(mechanically fastened see notes 11, 12 & 13)</small>	Rating	White EPDM Fleece
					RoofNAV Number
Steel Deck (Min. 22-Gauge)					
Min. 1.5" Premiseal 60	Spray Applied to deck	-	-	1-285	-
Min. 2" VersiCore/SecurShield	10 (1 per 3.2 sq.ft.)	Min. 1" Premiseal 60	Spray Applied to Insulation	1-90	-
Min. 1/2" DensDeck Prime or Securock	8 (1 per 4 sq. ft.)	Min. 1" Premiseal 60	Spray Applied to Insulation	1-90	-
Concrete Deck					
Min. 1.5" Premiseal 60	Spray Applied to deck	-	-	1-990	-
Min. 2" VersiCore/SecurShield	Flexible DASH 4" ribbons	Min. 1" Premiseal 60	Spray Applied to Insulation	1-420	-

Wind Uplift Testing
Insulation Attached to Steel Deck with Flexible DASH Adhesive (14)

Black/White VersiFleece Adhered Roofing Systems
 Insulation attachment to Steel Decks with Flexible DASH Adhesive

Insulation and Membrane adhered with Flexible DASH Adhesive			
Deck Type	Insulation	Insulation Thickness	Rating
Steel - 22 gauge Approved Grade C deck fastened to structural purlins (positioned maximum 6' apart) with ITW Buildex Traxx/5 Fasteners spaced 6" on center	VersiCore Polyiso	Minimum 1-1/2"	Passed 210 psf with beads 6-inches on center (every flute)

Adhered VersiFleece ® with Flexible DASH Adhesive

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. All insulation joints must be staggered a minimum of 12 inches from the deck joints or from the insulation joints directly below.
4. DELETED
5. DELETED
6. DELETED
7. DELETED
8. DELETED
9. DELETED
10. Existing adhered or mechanically fastened EPDM or Hypalon roofing systems. Contact Versico regarding suitability and specific requirements.
11. HPV fastener/Insulation plate.
12. InsuLTITE fastener/Insulation plate.
13. InsuLTITE fastener/SecurFAST Insulation Fastening plate.
14. DELETED
15. UL 580 Test Standard – “Tests for Uplift Resistance of Roof Assemblies”. This test method subjects a 10’ x 10’ sample to various static and oscillating air pressures to determine uplift resistance.
16. ANSI/UL 1897 Test Standard – “Standard Test Method for Uplift Resistance for Roof Covering Systems”. This test method subjects a 10’ x 10’ sample to differential static uplift pressures to determine resistance. This test is essentially the same as Factory Mutual’s (FM) Uplift Testing only the table size is different.
17. DELETED
18. 80 ksi with one fastener per attachment point.
19. 80 ksi with two fasteners per attachment point.

Versico Roofing Systems, a division of Carlisle Construction Materials LLC, P.O. Box 1289, Carlisle, PA 17013
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