



**VersiFleece TPO and PVC  
Adhered Roofing Systems with HydroBond Bonding Adhesive**

**Code Approval Guide  
January 2024**

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**UL Approval - Non-Combustible - ANSI/UL 790 Spread of Flame Test (Class A)  
VersiFleece Adhered with HydroBond Bonding Adhesive**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope		
				VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
1	Non-Combustible	VersiCore or SecurShield- any combination, any thickness	N/A	1/2"	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	1/2"	2-1/2"	1-1/2"
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"	1"
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	2"	1-1/2"
5		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber Roof Boards	2"	3"	Unlimited
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Boards	2"	3"	Unlimited
7		Any UL Classified Insulation, any thickness (OPTIONAL)	1/2" Recovery Board	1"	2-1/2"	2-1/2"
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 5/16" DuraStorm VSH	1/2"	2-1/2"	1-1/2"
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or minimum 1-1/2" DuraFacer	1"	2-1/2"	2-1/2"
10			N/A	N/A	1"	2-1/2"

**UL Approval - Combustible (1) - ANSI/UL 790 Spread of Flame Test (Class A)  
VersiFleece Adhered with HydroBond Bonding Adhesive**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 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	Insulation	Cover Board	Maximum Slope		
				VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
<b>Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class A</b>						
1	Minimum 1/4" SECUROCK® Gypsum Fiber or Glass Mat Roof Board (2)	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	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"	2-1/2"	1-1/2"
3	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"	1/2"
4	3-4	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"	1/2"
5	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"	1/2"
6	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"	1/2"
7	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"	1/2"
8	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	2"	3"	3"
9	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	2"	2"

**UL Approval - Combustible (1) - ANSI/UL 790 Spread of Flame Test (Class A)  
VersiFleece Adhered with HydroBond Bonding Adhesive**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 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	Insulation	Cover Board	Maximum Slope		
				VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
<b>Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class A</b>						
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber Roof Board (2)	2"	3"	4"
11	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	2"	3"	Unlimited
12	Three layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	2"	1-1/2"
13	Two layers of Versico FR Base Sheet	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	3/4"	3/4"
14	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, minimum 2" thickness. (2)	Minimum 7/16" DuraStorm VSH	1/2" Class C	1"	1"

**UL Approval - Non-Combustible and Combustible ANSI/UL 790 Spread of Flame Test (Class C)  
VersiFleece Adhered with HydroBond Bonding Adhesive**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

System ID	Thermal Barrier	Insulation	Cover Board	Maximum Slope		
				VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
<b>Non-Combustible or Combustible - ANSI/UL 790 Spread of Flame Test-Class C</b>						
1	N/A	Any UL Classified Versico Polyisocyanurate Insulation, any combination, any thickness.	N/A	Unlimited	Unlimited	Unlimited
2	N/A	Any UL Classified Insulation, any combination, any thickness. (OPTIONAL)	Minimum 5/16" DuraStorm VSH	1/2"	1/2"	1/2"

FM Approvals  
VersiFleece Adhered Roofing Systems  
Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
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	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-90	375831-0-0	353920-0-0	375797-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD over 1-1/2" VersiCore	6" ribbons of DASH	1-90	375834-0-0	354279-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	8 (4 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD	4" ribbons of DASH	1-120	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft.)	1/2" SecurShield HD	6" ribbons of DASH	1-135	-	493493-0-0	493498-0-0
Min. 2" VersiCore Polyiso	32 (1 sq. ft.)	1/2" SecurShield HD	4" ribbons of DASH	1-225	-	493494-0-0	493501-0-0
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1/2" SecurShield HD over 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 VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft)	1/2" SecurShield HD over VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1/2" SecurShield HD over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG and 120TG Base Torch Applied</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft)	1/2" SecurShield HD over 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 VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-315	429666-0-0	-	429672-0-0
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120	-	438112-0-0	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	1/2" SecurShield HD	Hot Asphalt	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
3/4" Optim-R	6" ribbons of DASH	1/2" SecurShield HD	6" ribbons of DASH	1-120 702	-	437596-0-0	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-120	Pending	Pending	Pending
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-120	393062-0-0	392970-0-0	393060-0-0
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
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	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
-	-	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-	-
-	-	1/2" SecurShield HD	16 (2 sq. ft)	1-90	-	-	-
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-90	-	-	-
-	-	1/2" SecurShield HD	8 (4 sq. ft) SecurFAST Plate	1-120	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD	12" ribbons of DASH	1-90	-	-	-
-	-	1/2" SecurShield HD	6" ribbons of DASH	1-120	-	-	-
<b>Gypsum Deck</b>							
-	-	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.



FM Approvals  
VersiFleece Adhered Roofing Systems  
Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD Plus - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
FM Approved	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	375838-0-0	369888-0-0	375810-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	375831-0-0	353920-0-0	375797-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1/2" SecurShield HD Plus	4" ribbons of DASH	1-120	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	6" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	DASH - Rig Splatter	1-135	-	-	-
Min. 1/2" DensDeck Prime or Securock	32 (1 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	DASH - Rig Splatter	1-225	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	6" ribbons of DASH	1-135	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG and 120TG Base Torch Applied</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	SecurShield HD Plus over VersiCore Polyiso	6" ribbons of DASH	1-90	Pending	Pending	Pending
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	-	429666-0-0	429671-0-0
VersiCore	Hot Asphalt	1/2" SecurShield HD Plus	Hot Asphalt	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD Plus - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-120	393062-0-0	392970-0-0	393060-0-0
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1/2" SecurShield HD Plus	12" ribbons of DASH	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
FM Approved	Loose laid	1/2" SecurShield HD Plus	12 (2.67 sq. ft)	1-75	-	-	-
FM Approved	Loose laid	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	12 (2.67 sq. ft)	1-75	-	-	-
-	-	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD Plus - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-90	-	-	-
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft) SecurFAST Plate	1-120	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	6" ribbons of DASH	1/2" SecurShield HD Plus	6" ribbons of DASH	1-120	-	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of DASH	1-120	-	-	-
<b>Gypsum Deck</b>							
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	1/2" SecurShield HD Plus	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.

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**VersiCore Polyiso - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft.)	-	-	1-90	375850-0-0	375852-0-0	375849-0-0
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	-	-	1-90	375708-0-0	345900-0-0	375669-0-0
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-120	375712-0-0	345905-0-0	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	459641-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	1-1/2" VersiCore Polyiso	4" ribbons of DASH	1-120	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
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	DASH - Rig Splatter	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
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	1-120	-	-	-

FM Approvals  
VersiFleece Adhered Roofing Systems  
Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**VersiCore Polyiso - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
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	1-120	-	-	-
<b>Concrete Deck</b>							
Min. 1" VersiCore Polyiso	12" ribbons of DASH	-	-	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	-	-	1-120	-	-	-
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-120	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-120	-	-	-
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	-	466949-0-0	-
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	-	466950-0-0	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	-	-	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
Min. 1-1/2" VersiCore Polyiso	16 (2 sq. ft)	-	-	1-90	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**VersiCore Polyiso - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	-	-	1-90	-	-	-
Min. 2" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**VersiCore Polyiso - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
1" VersiCore Polyiso	20 (1.6 sq ft)	-	-	1-90	391946-0-0	-	-
1" VersiCore Polyiso	6" ribbons of DASH	-	-	1-90	-	-	-
<b>Concrete Deck</b>							
1" VersiCore Polyiso	12" ribbons of DASH	-	-	1-120	-	-	-
<b>Gypsum Deck</b>							
1" VersiCore Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	-	-
1" VersiCore Polyiso	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.

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield Ratings - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
Min. 2" SecurShield	16 (2 sq. ft.)	-	-	1-90	-	-	-
Min. 2" SecurShield	8 (4 sq. ft.)	-	-	1-90	375773-0-0	345915-0-0	375750-0-0
Min. 2" SecurShield	20 (1.6 sq. ft.)	-	-	1-120	375777-0-0	345925-0-0	375754-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-90	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-90	459651-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1" SecurShield	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	Min. 1" SecurShield	4" ribbons of DASH	1-120	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1" SecurShield	6" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1" SecurShield	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck</b>							
Min. 1-1/2" SecurShield	12" ribbons of DASH	-	-	1-120	-	-	-
Min 1-1/2" SecurShield	Hot Asphalt	-	-	1-120	-	-	-
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" SecurShield	12" ribbons of DASH	-	-	1-120	-	-	-



FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield Ratings - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" SecurShield	12" ribbons of DASH	-	-	1-120	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/2" SecurShield	12" ribbons of DASH	1-120	-	-	-
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" SecurShield	16 (2 sq. ft)	-	-	1-90	-	-	-
Min. 1-1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
Min. 1-1/2" SecurShield	16 (2 sq. ft)	-	-	1-75	-	-	-
Min. 2" SecurShield	8 (4 sq. ft)	-	-	1-90	-	-	-
2" SecurShield	20 (1.6 sq. ft.)	-	-	1-120	-	-	-
2" SecurShield	32 (1 sq. ft.)	-	-	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-	-
<b>Concrete Deck</b>							
1/2" SecurShield	12" ribbons of DASH	-	-	1-90	-	-	-
<b>Gypsum Deck</b>							
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.

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD Composite Ratings - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
Min. 1-1/2" SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	-	-	-
Min. 2" SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	-	-	-
Min. 2" SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-120	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-90	-	-	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft.)	Min. 2" SecurShield HD Composite	12" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 2" SecurShield HD Composite	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	Min. 2" SecurShield HD Composite	4" ribbons of DASH	1-120	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 2" SecurShield HD Composite	6" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
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	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
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	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
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	1-120	-	-	-
<b>Concrete Deck</b>							
Min 1-1/2" SecurShield HD Composite	12" ribbons of DASH	-	-	1-120	-	-	-
Min 1-1/2" SecurShield HD Composite	Hot Asphalt	-	-	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**SecurShield HD Composite Ratings - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" SecurShield HD Composite	12" ribbons of DASH	-	-	1-120	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield HD Composite	-	1-120	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" SecurShield HD Composite	-	1-120	-	-	-
<b>Gypsum Deck Tear-Off</b>							
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	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" SecurShield HD Composite	12" ribbons of DASH	-	-	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
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.)	-	-	1-120	-	-	-
Min. 2" SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-120	-	-	-

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**Securock - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
FM Approved	Loose laid	Min. 1/4" Securock	12 (2.66 sq. ft)	1-75	375664-0-0	-	375652-0-0
FM Approved	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	375662-0-0	345911-0-0	375618-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-270	-	-	-
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	375663-0-0	375913-0-0	375651-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	8 (4 sq. ft) SecurFAST Plate	1-90	443320-0-0	-	443327-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-90	443344-0-0	-	443345-0-0
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft)	1-120	375665-0-0	345923-0-0	375653-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	1-90	-	544123-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" Securock	12" ribbons 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 of DASH	1-90	-	544125-0-0	-
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	1-120	-	-	-
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	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**Securock - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
Min. 1/2" Dens Deck 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" Dens Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	DASH - Rig Splatter	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" Dens Deck 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" Dens Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
Min. 1/2" Dens Deck 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" Dens Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" VersiCore Polyiso	6" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" Securock	Hot Asphalt	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft)	1-90	-	395790-0-0	-
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-120	508199-0-0 (1-165)	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-120	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**Securock - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
Min. 1-1/2" VersiCore Polyiso	Full-Coverage DASH	Min. 1/4" Securock	12" ribbons of DASH	1-120	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-120	394571-0-0	394566-0-0	393056-0-0
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" Securock	12" ribbons of DASH	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
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	32 (1 sq. ft)	1-120	-	-	-

FM Approvals  
 VersiFleece™ Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive  
**Securock - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck</b>							
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.



FM Approvals  
VersiFleece Adhered Roofing Systems  
Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DensDeck Prime - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	-	345893-0-0	345893-0-0
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	345920-0-0	345920-0-0
FM Approved	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq. ft)	1-90	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq. ft)	1-90	-	507590-0-0	507590-0-0
Min. 1" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-105	-	345904-0-0	345904-0-0
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft)	1-135	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-150	487873-0-0	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-165	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-180 (16)	-	-	-
Min. 1-1/2" VersiCore Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-255 (17)	-	-	-
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	420540-0-0	384623-0-0	384623-0-0
Min. 1-1/2" VersiCore Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore	12" ribbons of DASH	1-90	420529-0-0	454213-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	420541-0-0	428869-0-0	-
Min. 2" VersiCore Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime over Min. 1-1/2" VersiCore	12" ribbons of DASH	1-90	402195-0-0	454214-0-0	-
Min. 1-1/2" VersiCore Polyiso	18 (1.8 sq. ft.)	Min. 1/4" DensDeck Prime	6" ribbons of DASH	1-105	-	-	-
Min. 1-1/2" VersiCore Polyiso	24 (1.33 sq. ft.)	Min. 1/4" DensDeck Prime	4" ribbons of DASH	1-165	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DensDeck Prime - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
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	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
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	1-120	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over VersiCore Polyiso	12" ribbons of DASH	1-90	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-315	429664-0-0	429668-0-0	429668-0-0
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	Hot Asphalt	1-255	-	-	-
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255 CAV-GRIP 3V	508199-0-0 (1-165)	364651-0-0	364651-0-0
				1-195 702-LV	-	364653-0-0	364653-0-0
				1-90 702	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DensDeck Prime - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	-	394555-0-0	394555-0-0
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-255	-	-	-
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 1/4" DensDeck Prime	12" ribbons of DASH	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
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  
 VersiFleece™ Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DensDeck Prime - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	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.

FM Approvals  
 VersiFleece Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DuraFacerR - New Construction**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
					RoofNAV Number		
<b>Steel Deck (Min. 22 Gauge)</b>							
FM Approved	Loose laid	Min. 2" DuraFacer	17 (1.8 sq. ft)	1-105	-	-	-
Min. 1" VersiCore Polyiso	Loose laid	Min. 2" DuraFacer	17 (1.8 sq. ft)	1-105	-	-	-
<b>Steel Deck (Min. 22 Gauge) with VapAir Seal 725 TR and CAV-GRIP 3V or 702 Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFacer	8 (4 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFacer	DASH - Rig Splatter	1-105	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFacer	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFacer	6" ribbons of DASH	1-105	-	-	-
<b>Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied</b>							
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 2" DuraFacer	12" ribbons of DASH	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" DuraFacer	6" ribbons of DASH	1-105	-	-	-
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-
Min. 1/2" VersiCore Polyiso	Hot Asphalt	Min. 2" DuraFacer	Hot Asphalt	1-105	-	-	-
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-
<b>Concrete Deck with VapAir Seal 725 TR and CAV-GRIP 3V / 702-LV / 702 Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-
<b>Concrete Deck with SureMB 70 SA and CAV-GRIP 3V Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-
<b>Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-
<b>Gypsum Deck Tear-Off</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-90	-	-	-
<b>Gypsum Deck Tear-Off with VapAir Seal 725TR and CAV-GRIP 3V, 702-LV or 702 Primer</b>							
Min. 1-1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-90	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Steel Decking (Min. 22 Gauge)</b>							
FM Approved	Loose laid	Min. 2" DuraFacer	17 (1.8 sq. ft)	1-105	-	-	-
<b>(Celcore) Cellular Lightweight Insulating Concrete Over Concrete Decking</b>							
Min. 1/2" VersiCore Polyiso	4" ribbons of DASH	Min. 2" DuraFacer	4" ribbons of DASH	1-105	-	-	-

FM Approvals  
 VersiFleece™ Adhered Roofing Systems  
 Membrane Adhered with HydroBond™ Water-Based Bonding Adhesive

**DuraFacer - Recover**

**Membrane Type:** VersiFleece TPO Membrane - 100, 115 or 135 Membrane  
 VersiFleece PVC Membrane - 105, 115 or 135 Membrane  
 VersiFleece KEE HP Membrane - 105, 115 or 135 Membrane

**Membrane Adhesive:** HydroBond™ Water-Based Bonding Adhesive

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

VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP	Top Layer Fastening (mechanically fastened see notes 13, 14 & 15)	Rating	VersiFleece TPO	VersiFleece PVC	VersiFleece KEE HP
RoofNAV Number					RoofNAV Number		
<b>Concrete Deck</b>							
Min. 1/2" VersiCore Polyiso	12" ribbons of DASH	Min. 2" DuraFacer	12" ribbons of DASH	1-105	-	-	-

**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.

## VersiFleece Adhered with HydroBond Bonding 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.
2. 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. DELETED
11. 7/16" thick non-veneer, APA rated oriented strand board (OSB) may be substituted for Versico Recovery Board in all listed assemblies. The fastening pattern for the OSB must conform with Versico Detail A-27.6 (when mechanically fastened).
12. Acceptable G2 Base Sheets can be one of the following: Celotex Type G2 Vaporbar GB, GAF Gafglas No. 75 Base Sheet, Manville Glasbase, Owens Corning Perma Ply No. 28 or Tamko Glass Base. Versico's FR Base Sheet 2S is also acceptable.
13. HPV fastener/Insulation fastening plate.
14. InsulTITE fastener/Insulation fastening plate.
15. InsulTITE fastener/SecurFAST Insulation Fastening plate.
16. 80 ksi with one fastener per attachment point.
17. 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

**800-992-7663**

Versico VersiFleece TPO, VersiFleece PVC and VersiFleece KEE HP

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