



**Sure-Seal EPDM
Sure-Weld TPO
Sure-Flex PVC**

Hot Mopped Adhered Roofing System

Code Approval Guide

August, 2019

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

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope		
				Sure-Seal	Sure-Weld	Sure-Flex
1	Non-Combustible	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber Roof Board	2"	1"	Unlimited
2		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board	2"	1"	Unlimited
3		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" HP Recovery Board	2"	1"	2"
4	Precast concrete with grouted joints	N/A	N/A	2"	1"	2"
5	Structural (poured-in-place) concrete	N/A	N/A	2"	1"	2"

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

Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)

Membrane Type: Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)

Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

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 (2)	Maximum Slope		
				Sure-Seal	Sure-Weld	Sure-Flex
Combustible (7) - ANSI/UL 790 Spread of Flame Test-Class A						
1	N/A	Any UL Classified Carlisle Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (1)	2"	1"	3"
2	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (1)	2"	1"	2"
3	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (1)	2"	1"	Unlimited

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AFX - Hot Mopped Adhered Roofing System

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

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

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

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope		
				Sure-Seal	Sure-Weld	Sure-Flex
1	Combustible or Non-Combustible	Smooth Asphalt BUR (Type III or IV Asphalt)	N/A	1/2"	1/2"	1/2"
2		Mineral Surfaced Cap Sheet	N/A	1/2"	1/2"	1/2"
3		Modified Bitumen	N/A	1/2"	1/2"	1/2"

Mechanically Fastened Membrane - Recover

Membrane Width	Spacing	Rating	Min. 22 Gauge Grade C Steel (33 ksi)		
			Sure-Seal	Sure-Weld	Sure-Flex
10 Feet	6"	1-105	138293-0-0	138702-0-0	N/A

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FM Approvals
Design "A" Adhered Roofing Systems
AFX - Hot Mopped Adhered Roofing System

Securock Ratings - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
(FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Steel Deck (Min. 2-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	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 5/8" Securock	8 (4 sq. ft) SureFAST Plate	1-90	-	-	-
FM Approved	Loose laid	Min. 5/8" Securock	8 (4 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" Securock	8 (4 sq. ft) SecurFAST Plate	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-75	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 5/8" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-90	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	20 (1.6 sq. ft)	1-150	-	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-270	-	-	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	6" ribbons of FAST	1-90	-	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" Securock	12" ribbons of FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	18 (1.8 sq. ft.)	Min. 1/4" Securock	6" ribbons of FAST	1-105	-	-	-
Min. 1-1/2" InsulBase Polyiso	24 (1.33 sq. ft.)	Min. 1/4" Securock	4" ribbons of FAST	1-165	-	-	-
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-	-
Steel Deck (Min. 22-Gauge) with VapAir Seal 725TR and Cav-Grip Primer							
Min. 1/2" DensDeck Prime or 5/8" Securock	16 (2 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-	-
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-270	-	-	-
Min. 1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/4" Securock	12" ribbons of Olybond 500 BA	1-240	-	-	-
Min. 1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" Securock	Hot Asphalt	1-270	-	-	-
Concrete Deck with VapAir Seal 725TR and Cav-Grip, 702-LV or 702 Primer							
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 1/4" Securock	12" ribbons of FAST	1-255 Cav-Grip	-	-	-
				1-195 702-LV	-	-	-
				1-90 702	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer							

FM Approvals
Design "A" Adhered Roofing Systems
AFX - Hot Mopped Adhered Roofing System

Securock Ratings - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
(FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 1/4" Securock	12" ribbons of FAST	1-255	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 1/4" Securock	Full-Coverage FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/4" Securock	12" ribbons of Olybond 500 BA	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	-	-	-
Min. 1-1/2" InsulBase Polyiso	4" ribbons of FAST	Min. 1/2" Securock	4" ribbons of FAST	1-135	-	-	-
(Celcore) Cellular Lightweight Insulating Concrete Over Concrete Decking							
Min. 1" InsulBase Polyiso	4" ribbons of FAST	Min. 1/4" Securock	4" ribbons of FAST	1-135	-	-	-

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FM Approvals
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 AFX - Hot Mopped Adhered Roofing System

Securock Ratings - Recover

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
 (FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-90	-	-	-

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

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FM Approvals
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AFX - Hot Mopped Adhered Roofing System

DensDeck Prime - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
(FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	106651-0-0	-	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	5/8" DensDeck Prime	8 (4 sq. ft)	1-90	106648-0-0	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" DensDeck Prime	8 (4 sq.ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" DensDeck Prime	18 (1.8 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" DensDeck Prime	18 (1.8 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" DensDeck Prime	32 (1 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	188315-0-0	189734-0-0	375582-0-0
Min. 1-1/2" InsulBase Polyiso	18 (1.8 sq. ft.)	Min. 1/4" DensDeck Prime	6" ribbons of FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	24 (1.33 sq. ft.)	Min. 1/4" DensDeck Prime	4" ribbons of FAST	1-90	-	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/4" DensDeck Prime over InsulBase Polyiso	12" ribbons of FAST	1-90	-	-	-
Steel Deck with VapAir Seal 725 TR and Cav-Grip Primer							
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/4" DensDeck Prime over InsulBase Polyiso	6" ribbons of FAST	1-90	-	-	-
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-	-
Min. 1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/4" DensDeck Prime	12" ribbons of Olybond 500 BA	1-90	-	-	-
Min. 1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	Hot Asphalt	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq.ft)	1-90	-	210494-0-0	-
Concrete Deck with VapAir Seal 725 TR and Cav-Grip / 702-LV / 702 Primer							
				1-90 Cav-Grip	-	-	-

FM Approvals
Design "A" Adhered Roofing Systems
AFX - Hot Mopped Adhered Roofing System

DensDeck Prime - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
(FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90 702-LV	-	-	-
				1-90 702	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 1/4" DensDeck Prime	Full-Coverage FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/4" DensDeck Prime	12" ribbons of Olybond 500 BA	1-90	108871-0-0	-	-
Cellular Lightweight Insulating Concrete Over Steel Decking							
FM Approved	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	-	-
FM Approved	Loose laid	Min. 5/8" DensDeck Prime	8 (4 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	4" ribbons of FAST	Min. 1/2" DensDeck Prime	4" ribbons of FAST	1-90	-	-	-
Cellular Lightweight Insulating Concrete Over Concrete Decking							
Min. 1/2" InsulBase Polyiso	4" ribbons of FAST	Min. 1/4" DensDeck Prime	4" ribbons of FAST	1-90	-	-	-

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FM Approvals
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 AFX - Hot Mopped Adhered Roofing System

DensDeck Prime Ratings - Recover

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
 (FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-	-

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

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FM Approvals
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AFX - Hot Mopped Adhered Roofing System

HP Recovery Board Ratings - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
(FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Steel Deck (Min. 22-Gauge)							
FM Approved	Loose laid	Min. 1/2" HP Recovery Board	16 (2 sq. ft.)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/2" HP Recovery Board	6" ribbons of FAST	1-90	-	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft.)	Min. 1/2" HP Recovery Board	12" ribbons of FAST	1-90	188315-0-0	-	375582-0-0
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/2" HP Recovery Board over Min 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft.)	Min. 1/2" HP Recovery Board	Hot asphalt	1-90	-	325133-0-0	-
Steel Deck with VapAir Seal 725 TR and Cav-Grip Primer							
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1/2" HP Recovery Board over Min. 1- 1/2" InsulBase Polyiso	6" ribbons of FAST	1-90	-	-	-
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/2" HP Recovery Board	12" ribbons of FAST	1-300	-	-	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/2" HP Recovery Board	12" ribbons of Olybond 500 BA	1-240	-	230446-0-0	-
Min. 1" InsulBase Polyiso	Hot Asphalt	Min. 1/2" HP Recovery Board	Hot Asphalt	1-300	-	292371-0-0	-
Min. 1" InsulBase Polyiso	Hot Asphalt	Min. 1/2" HP Recovery Board	Hot Asphalt	1-270	292289-0-0	-	-
Concrete Deck with VapAir Seal 725 TR and Cav-Grip / 702-LV / 702 Primer							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/2" HP Recovery Board	12" ribbons of FAST	1-255 Cav-Grip	-	-	-
				1-195 702-LV	-	-	-
				1-90 702	-	-	-
Concrete Deck with SureMB 90TG and 120TG Base Torch Applied/Cut-Back Asphalt Primer							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/2" HP Recovery Board	12" ribbons of FAST	1-300	-	-	-
Gypsum Deck Tear-Off							
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 1/2" HP Recovery Board	Full-Coverage FAST	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of Olybond 500 BA	Min. 1/2" HP Recovery Board	12" ribbons of Olybond 500 BA	1-90	108871-0-0	-	-

FM Approvals
 Design "A" Adhered Roofing Systems
 AFX - Hot Mopped Adhered Roofing System

HP Recovery Board Ratings - New Construction

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
 (FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Cellular Lightweight Insulating Concrete Over Steel Decking							
FM Approved	Loose laid	Min. 1/2" HP Recovery Board	16 (2 sq. ft)	1-90	-	-	-
Min. 1-1/2" InsulBase Polyiso	4" ribbons of FAST	Min. 1/2" HP Recovery Board	4" ribbons of FAST	1-90	-	-	-
Cellular Lightweight Insulating Concrete Over Concrete Decking							
Min. 1/2" InsulBase Polyiso	4" ribbons of FAST	Min. 1/2" HP Recovery Board	4" ribbons of FAST	1-135	-	-	-

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HP Recovery Board Ratings - Recover

Membrane Type: Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM)
 Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO)
 Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC)

Membrane Adhesive: Hot Mopped

Base and Top Layer Adhesive: FAST = FAST 100LV, Flexible FAST, FAST Bag in a Box, FAST Dual Cartridge and FAST Dual Tank
 (FAST Dual Tank can only be used on Steel and Concrete Decking)

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 3, 4 & 5)	Rating	Sure-Seal	Sure-Weld	Sure-Flex
					RoofNAV Number		
Concrete Deck							
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/2" HP Recovery Board	12" ribbons of FAST	1-90	-	-	-

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

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Sure-Seal/Sure-Weld/Sure-Flex
AFX - Hot Mopped Adhered Roofing System

Reference Notes

1. All insulation joints must be staggered a minimum of 6 inches from the deck joints or from the insulation joints directly below. ([return to chart](#))
2. 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. ([return to chart](#))
3. Sure-Seal HP fastener/Sure-Seal Insulation plate.
4. InsulFAST fastener/Sure-Seal Insulation plate.
5. InsulFAST fastener/SecurFAST Insulation Fastening plate.



[Click on one of the following to return to chart: Securock, DensDeck Prime or HP Recovery Board](#)

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Carlisle SynTec, a division of Carlisle Construction Materials Incorporated

(800)-4SYNTEC (800-479-6832)

Sure-Seal FleeceBACK AFX or AFX Plus Membrane (black EPDM), Sure-Weld FleeceBACK AFX or AFX Plus Membrane (white TPO),

Sure-Flex KEE HP FRS FleeceBACK Membrane (white PVC), FleeceBACK and FAST are Trademarks

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