



CARLISLE'S SURE-SEAL

Sure-Seal®, Sure-Tough® and Sure-White® SAT EPDM Self-Adhered Technology (SAT) Roofing System

Code Approval Guide April 2022

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Carlisle SynTec Systems

A Division of Carlisle Construction Materials, LLC

CODE APPROVAL GUIDE

April 2022

INTRODUCTION

This Code Approval Guide addresses both general information pertaining to Underwriters Laboratories (UL) and FM Approvals (FM) test criteria as well as specific UL and FM code approvals achieved with Carlisle's Sure-Seal™ Seld-Adhered EPDM Roofing Systems. Various independent test laboratory results along with national building code approvals are also identified in this guide. Code approvals available with Carlisle's FleeceBACK, Hot Mopped, Sure Flex and Sure-Seal® Roofing Systems are identified in separately published Code Approval Guides.

Code ratings are categorized by roof system type and are separated into two sections: UL Approvals and FM Approvals. UL rated roof assemblies are grouped according to deck type (non-combustible or combustible) and are further categorized according to deck type and the specific type of construction (new, recover, tear-off or retrofit).

The listed assemblies contained in the guide are grouped generically based on deck classification. Specific substrate requirements for each Carlisle roofing system can be identified in the respective Carlisle specifications.

In the UL and FM Approvals throughout this guide, when multiple layers of insulation are referenced, the product listed first identifies the insulation directly below the membrane. For example; a listing of HP Recovery Board/Polyisocyanurate indicates the HP Recovery Board is installed directly under the membrane. A listing of Gypsum Board/Polystyrene indicates the Gypsum Board is installed directly under the membrane.

GENERAL GUIDELINES FOR UL AND FM APPROVALS CODE COMPLIANCE

No table of figures entries found. Approvals (FM) approved assembly is specified. Generally, the Carlisle published specifications reflect the minimum requirements necessary to obtain the applicable Carlisle warranty. Code requirements are not specifically covered in the Carlisle specifications and are considered to be above and beyond the provisions of the Carlisle warranty.

Individuals specifying an approved assembly or selecting various products to achieve a specific UL/FM rating must recognize the importance of ensuring proper component selection to fully comply with the most current listings published. All materials used in the roofing systems must be UL and/or FM approved and must have been tested together as part of a complete roof assembly.

In addition to the code approval listings in this guide, information pertaining to approved assemblies can also be obtained directly from UL and FM as follows:

1. *Underwriters Laboratories On-Line Certification Directory (productiq.ulprospector.com/en)*
2. *FM Approvals RoofNAV website (roofnav.com)*. FM RoofNAV assembly numbers can be obtained from this website.

UL, FM Approvals and ASNI/SPRI WD-1 Clarifications/Enhancements

Underwriters Laboratories

1. The criteria required to obtain **UL External fire ratings** (Class A, B or C) can be identified in this guide or can be searched for on the UL website using the UL Category Code TGFU. UL ratings approved for use on combustible decks are also acceptable on non-combustible decks.
2. For **UL internal fire ratings** (hourly constructions – P Numbers), search the UL website use the UL Category Code BXUV.

FM Approvals

Uplift ratings listed in this guide are for the field of the roof. Additional requirements/enhancements are required by FM in the perimeter and corner areas, for deck securement and for perimeter nailer/edge attachment. Refer to FM Property Loss Prevention Data Sheets 1-28, 1-29 and 1-49 for specific requirements. On FM insured projects, the FM insuring agent **MUST** review and approve the proposed roofing assembly prior to installation. When FM is not the insuring entity for the building, use the **Approved American National Standard ANSI/SPRI WD-1** for design purposes.

Note: All Carlisle roof systems referenced within this document meet Class 1 construction and Severe Hail (SH) rating.

Approved American National Standard ANSI/SPRI WD-1

The ANSI/SPRI Wind Design Standard Practice for Roofing Assemblies should be referenced when a project is not FM insured. This document was developed as a consensus National Standard and provides a methodology for designing for wind uplift resistance of roofing system assemblies. Insulation fastening patterns are included in this document. The fastening patterns are approved for use by Carlisle.

RECOVERS

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.

SUMMARY

Due to complexity of the code documents and the variety of information that must be reviewed, it is important to consult with Carlisle and other respective manufactures concerning the most current available approvals.

- **Prior to project bid** – Products specified by the architect must be thoroughly investigated to determine if the specified rating can be achieved and local building codes must be consulted regarding any additional requirements.
- **Prior to installation** – Project managers should review the code requirements with field construction personnel to ensure compliance with project requirements.

Upon completion of the roofing installation, each project is inspected by a Carlisle Technical Representative to ensure compliance with Carlisle's current specification requirements for the issuance of the applicable warranty. However, this inspection is not for the purpose of verifying code compliance.

UL Approval
 Sure-Seal®, Sure-Tough® and Sure-White® SAT EPDM Roofing System

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

Membrane Type: .060" Sure-Seal, Sure-Tough & Sure-White SAT EPDM (Self-Adhered) Membrane

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope		
				Sure-Seal SAT	Sure-Tough SAT	Sure-White SAT
1	Non-Combustible	InsulBase or SecurShield- any combination, any thickness	N/A	1/2"	1/2"	1/4"
2		Any UL Classified Insulation, any combination, any thickness (OPTIONAL)	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1/2"	1/2"	3/4"
3		Minimum 1" layer of InsulBase, SecurShield, or SecurShield HD Composite over any UL Classified EPS or XPS Insulation, maximum 1.25 pcf, any thickness	N/A	1/2"	1/2"	1/4"
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"	1/2"	1/2"
5		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber	Unlimited	3"	1"
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board	Unlimited	3"	1"
7		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 5/16" EcoStorm VSH	1/2"	1/2"	1/4"
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or Minimum 1-1/2" StormBase	2"	2"	-

UL Approval
Sure-Seal®, Sure-Tough® and Sure-White® SAT EPDM Roofing System

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

Membrane Type: .060" Sure-Seal, Sure-Tough & Sure-White SAT EPDM (Self-Adhered) 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		
				Sure-Seal SAT	Sure-Tough SAT	Sure-White SAT
Combustible (1) - ANSI/UL 790 Spread of Flame Test-Class A						
1	Minimum 1/4" SECUROCK® Gypsum Fiber or Glass Mat Roof Board (2)	InsulBase or SecurShield Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/4"
2	Minimum 1/4" DensDeck or DensDeck Prime Roof Boards (2)	InsulBase or SecurShield Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/4"
3	N/A	Minimum 1" thick layer of SecurShield is placed directly over a combustible roof deck. An optional layer or layers of any Carlisle 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	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"	1/2"
5	N/A	OPTIONAL layer or layers of any Carlisle Polyisocyanurate Insulation may be used below the minimum 1/2" thick top layer, any combination, any thickness. (3)	1/2" thick SecurShield HD, SecurShield HD Plus or SecurShield HD Composite is placed directly over a combustible roof deck. (3)	1/2"	1/2"	3/4"
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	Any UL Classified Carlisle Polyisocyanurate Insulation, any combination, any thickness.	Minimum 1/4" SECUROCK® Gypsum Fiber Roof Board (2)	3"	3"	1"
8	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 3/8" SECUROCK® Gypsum Fiber Roof Board (2)	2"	2"	1"
9	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/2" SECUROCK® Gypsum Fiber Roof Board (2)	4"	3"	1"
10	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board (2)	Unlimited	3"	1"
11	Two layers of Carlisle FR Base Sheet	Any UL Classified Carlisle Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/4"
12	N/A	Any UL Classified Carlisle Polyisocyanurate Insulation, any combination, minimum 2" thickness. (2)	Minimum 7/16" EcoStorm VSH	1/2"	1/2"	1/4"

UL Approval
 Sure-Seal®, Sure-Tough® and Sure-White® SAT EPDM Roofing System

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

Membrane Type: .060" Sure-Seal, Sure-Tough & Sure-White SAT EPDM (Self-Adhered) 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)

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

System ID	Thermal Barrier/Base Sheet	Insulation	Cover Board	Maximum Slope		
				Sure-Seal SAT	Sure-Tough SAT	Sure-White SAT
Combustible - ANSI/UL 790 Spread of Flame Test-Class B						
1	One Layer of Carlisle FR Base Sheet	Any UL Classified Carlisle Polyisocyanurate Insulation, any combination, any thickness.	N/A	1/2"	1/2"	1/4"
Non Combustible or Combustible - ANSI/UL 790 Spread of Flame Test-Class C						
1	N/A	Any combination, any thickness of UL Classified Carlisle Polyisocyanurate Insulation	N/A	Unlimited	Unlimited	Unlimited
2	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 5/16" EcoStorm VSH	1/2"	1/2"	1/2"

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield HD Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	12 (2.67 sq. ft)	1-75	-	-
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	460514-0-0	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	1/2" SecurShield HD	6" ribbons of FAST	1-90	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft.)	1/2" SecurShield HD	12" ribbons of FAST or Splatter	1-90	497445-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	6" ribbons FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over Insulfoam EPS	6" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	6" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Concrete Deck						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-315	-	-
3/4" Optim-R	6" ribbons of FAST	1/2" SecurShield HD	6" ribbons of FAST	1-90	436787-0-0	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft.)	1/2" SecurShield HD	6" ribbons of FAST	1-90	423358-0-0	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield HD Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
3/4" Optim-R	6" ribbons of FAST	1/2" SecurShield HD	6" ribbons of FAST	1-90	437594-0-0	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-315	460510-0-0	-
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-285	519863-0-0	Pending
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-90	-	490376-0-0
Cellular Lightweight Insulating Concrete/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	-	-
-	4" ribbons of FAST	1/2" SecurShield HD	4" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD	4" ribbons of FAST	1-90	-	-
(Celcore) Cellular Lightweight Insulating Concrete/Concrete Decking						
Min. 1/2" InsulBase Polyiso	4" ribbons of FAST	1/2" SecurShield HD	4" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD	4" ribbons of FAST	1-90	-	-
Treated Wood Decking (Re-roof Tearoff)						
Min. 1/2" DensDeck or Securock covered with Min. 1.5" InsulBase	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	511160-0-0	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield HD Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					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	-	-
-	-	1/2" SecurShield HD	6" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD	4" ribbons of FAST	1-90	-	-
Concrete Deck						
Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1/2" SecurShield HD	6" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD	6" ribbons of FAST	1-90	-	-
Treated Wood Deck (Min. 1/2" DensDeck or Securock on Deck with 725TR optional)						
Min. 1-1/2" InsulBase Polyiso	Loose-laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	511160-0-0	-
Gypsum Deck						
-	-	1/2" SecurShield HD	6" ribbons of FAST	1-90	-	-
Gypsum Deck with VapAir Seal 725TR and 702, 702-LV or Cav-Grip III Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons of FAST	1-90	-	490376-0-0

FM Approvals
 Sure-Seal® & Sure-White® SAT EPDM Roofing System
SecurShield HD Plus Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	428868-0-0	-
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	16 (2 sq. ft)	1-90	460519-0-0	-
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	18 (1.8 sq. ft)	1-120	502759-0-0	
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	1/2" SecurShield HD Plus	24 (1.33 sq. ft)	1-210	502760-0-0	
Min. 1-1/2" InsulBase Polyiso or SecurShield	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (4 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending

FM Approvals
 Sure-Seal® & Sure-White® SAT EPDM Roofing System
SecurShield HD Plus Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-150	464175-0-0	-
Min. 1-1/2" InsulBase Polyiso or SecurShield	10 (3.2 sq. ft.)	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	423358-0-0	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-315	460510-0-0	-
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1-1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-285	519863-0-0	Pending
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-315	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-90	-	-
(Celcore) Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)						
FM Approved	Loose laid	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield HD Plus Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
-	-	1/2" SecurShield HD Plus	8 (4 sq. ft)	1-90	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD Plus	4" ribbons of FAST	1-90	-	-
Concrete Deck						
Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
-	-	1/2" SecurShield HD Plus	6" ribbons of FAST	1-90	-	-
Gypsum Deck						
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	1/2" SecurShield HD Plus	Full-Coverage FAST	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

InsulBase Polyiso Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft.)	-	-	1-90	211158-0-0	481678-0-0
Min. 2" InsulBase Polyiso	8 (4 sq. ft.)	-	-	1-90	-	481661-0-0
Min. 2" InsulBase Polyiso	20 (1.6 sq. ft.)	-	-	1-90	211139-0-0	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft.)	Min. 2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	18 (1.8 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	24 (1.33 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	4" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft.)	-	-	1-90	-	481680-0-0
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-150	-	-
Min. 2" InsulBase Polyiso	FAST Full Coverage	-	-	1-675	481619-0-0	481656-0-0
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-150	-	-
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-150	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

InsulBase Polyiso Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-150	-	-
Gypsum Deck Tear-Off						
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	-	-	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-90	-	-
Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft)	-	-	1-90	-	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	-	-	1-90	-	-
Min. 2" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

InsulBase Polyiso Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
1" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	481686-0-0
1" InsulBase Polyiso	6" ribbons of FAST	-	-	1-90	-	-
Concrete Deck						
1" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	481685-0-0
1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-90	-	-
Gypsum Deck						
1" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	-	-
1" InsulBase Polyiso	Full-Coverage FAST	-	-	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft.)	-	-	1-90	-	-
Min. 2" SecurShield or SecurShield HD Composite	8 (4 sq. ft.)	-	-	1-90	-	-
Min. 1-1/2" InsulBase or SecurShield	Loose-Laid	Min. 2" SecurShield HD Composite	6 (5.33 sq. ft.) SecurFAST Plate	1-90	497447-0-0	
Min. 2" SecurShield or SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-150	-	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-90	-	-
Min. 2" InsulBase Polyiso or SecurShield	8 (4 sq. ft.)	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-90	497445-0-0	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" SecurShield or SecurShield HD Composite	6" ribbons of FAST	1-135	Pending	Pending

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield and SecurShield HD Composite Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck						
3/4" Optim-R	6" ribbons of FAST	1/2" SecurShield HD	6" ribbons of FAST	1-90	437594-0-0	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" SecurShield HD Composite	12" ribbons of FAST	1-150	464176-0-0	-
Min. 2" SecurShield or SecurShield HD Composite	Hot Asphalt	-	-	1-90	-	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" SecurShield HD Composite	12" ribbons of FAST	1-315	469971-0-0	-
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-285	519874-0-0	Pending
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-315	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft)	-	-	1-90	-	-
Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	-	-	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	-	-	1-90	-	-
Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)						
Min. 1-1/2" SecurShield or SecurShield HD Composite	16 (2 sq. ft)	-	-	1-75	-	-
Min. 2" SecurShield or SecurShield HD Composite	8 (4 sq. ft)	-	-	1-90	-	-
Min. 2" SecurShield or SecurShield HD Composite	20 (1.6 sq. ft.)	-	-	1-90	-	-
Min. 2" SecurShield or SecurShield HD Composite	32 (1 sq. ft.)	-	-	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

SecurShield Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-
Concrete Deck						
1/2" SecurShield	12" ribbons of FAST	-	-	1-90	-	-
Gypsum Deck						
1" SecurShield	20 (1.6 sq. ft)	-	-	1-90	-	-
1" SecurShield	Full-Coverage FAST	-	-	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

Securock Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	12 (2.66 sq. ft)	1-75	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	16 (2 sq. ft.)	1-90	456976-0-0	481698-0-0
-	-	Min. 1/2" Securock	16 (2 sq. ft.)	1-90	456983-0-0	481705-0-0
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft) SecurFAST Plate	1-90	456981-0-0	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 3/8" Securock	8 (4 sq. ft) SecurFAST Plate	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/2" Securock	10 (3.2 sq. ft)	1-90	456979-0-0	-
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	32 (1 sq. ft) SecurFAST Plate	1-210	481659-0-0	481659-0-0
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 5/8" Securock	8 (4 sq. ft)	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 5/8" Securock	6 (5.33 sq. ft) SecurFAST Plate	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock	12" 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 or Dual Tank	1-90	-	-
Min. 1-1/2" InsulBase Polyiso	24 (1.33 sq. ft.)	Min. 1/4" Securock	4" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	490371-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

Securock Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft)	1-90	456979-0-0	-
Min. 1/2" InsulBase Polyiso	FAST Full Coverage	Min. 1/4" Securock	FAST Full Coverage	1-90	-	-
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-150	456978-0-0	481714-0-0
Min. 1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" Securock	Hot Asphalt	1-90	-	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-315	460507-0-0	481713-0-0 (1-150)
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-285	519862-0-0	Pending
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-315	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-90	-	-
Cellular Lightweight Insulating Concrete/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)	1-90	-	-
FM Approved	Loose laid	Min. 1/2" Securock	32 (1 sq. ft)	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

Securock Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
-	-	Min. 1/4" Securock	16 (2 sq. ft.)	1-90	456982-0-0	481704-0-0
Gypsum						
-	-	Min. 1/4" Securock	6" ribbons of FAST	1-90	456984-0-0	481706-0-0

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

DensDeck Prime Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	Min. 1/4" DensDeck Prime	16 (2 sq. ft)	1-90	456976-0-0	481699-0-0
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	Min. 1/2" DensDeck Prime	10 (3.2 sq. ft)	1-90	-	481701-0-0
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	5/8" DensDeck Prime	8 (4 sq. ft)	1-90	-	-
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	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	-	-
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime over Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	-
Steel Deck (Min. 22 Gauge)/VapAir Seal 725TR with Cav-Grip III or 702 Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	-	490371-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base						
Min. 1/2" DensDeck Prime or Securock	8 (4 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	Pending	Pending
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" DensDeck Prime	16 (2 sq.ft)	1-90	456977-0-0	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	464174-0-0	-
Min. 1-1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	Hot Asphalt	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

DensDeck Prime Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Concrete Deck/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-315	460507-0-0	481713-0-0
Concrete Deck/SureMB 70 SA with Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1/4" DensDeck Prime	12" ribbons of FAST	1-285	519862-0-0	Pending
Concrete Deck/SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	1/4" DensDeck Prime	12" ribbons of FAST	1-315	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-
Cellular Lightweight Insulating Concrete/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	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

DensDeck Prime Ratings - Recover

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1" InsulBase Polyiso	20 (1.6 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-
Concrete Deck						
Min. 1" InsulBase Polyiso	20 (1.6 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-90	-	-

FM Approvals
Sure-Seal® & Sure-White® SAT EPDM Roofing System

StormBase Ratings - New Construction

Membrane Type: .060" Sure-Seal & Sure-White SAT EPDM (Self-Adhered) Membrane

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

Base Insulation Layer (Max. thickness 36")	Base Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Top Insulation Layer	Top Layer Fastening (mechanically fastened see notes 10, 11 & 12)	Rating	Sure-Seal SAT	Sure-White SAT
					RoofNAV Number	
Steel Deck (Min. 22 Gauge)						
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	16 (2 sq. ft)	1-90	456985-0-0	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	17 (1.9 sq. ft)	1-90	456987-0-0	-
Steel Deck (Min. 22 Gauge) with VapAir Seal 725TR/Cav-Grip III or 702 Primer						
Min. 1/2" Dens-Deck Prime or Securock	8 (4 sq. ft.)	Min. 2" StormBase	12" ribbons of FAST	1-90	-	-
Min. 1/2" Dens-Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" StormBase	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge) with SureMB 70 SA and Cav-Grip III Primer						
Min. 1/2" Dens-Deck Prime or Securock	8 (4 sq. ft.)	Min. 2" StormBase	12" ribbons of FAST	1-90	Pending	Pending
Min. 1/2" Dens-Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" StormBase	6" ribbons of FAST	1-135	Pending	Pending
Steel Deck (Min. 22 Gauge) with SureMB 90TG or 120TG Base Torch Applied						
Min. 1/2" Dens-Deck Prime or Securock	8 (4 sq. ft.)	Min. 2" StormBase	12" ribbons of FAST	1-90	-	-
Min. 1/2" Dens-Deck Prime or Securock	20 (1.6 sq. ft.)	Min. 2" StormBase	6" ribbons of FAST	1-135	Pending	Pending
Concrete Deck						
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	16 (2 sq. ft)	1-90	456986-0-0	-
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	17 (1.9 sq. ft)	1-90	456988-0-0	-
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-90	456989-0-0	-
Concrete Deck with VapAir Seal 725TR/Cav-Grip III, 702 LV or 702 Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-150	458933-0-0	481712-0-0
Concrete Deck with SureMB 70 SA/Cav-Grip III Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-150	Pending	Pending
Concrete Deck with SureMB 90TG or 120TG Base Torch Applied/Cut-Back Asphalt Primer						
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-150	-	-
Gypsum Deck Tear-Off						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-90	-	-
Gypsum Deck Tear-Off with VapAir Seal 725TR/Cav-Grip III, 702-LV or 702 Primer						
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-90	-	-
Cellular Lightweight Insulating Concrete/Steel Decking (Min. 22 Gauge)						
FM Approved	Loose laid	Min. 2" StormBase	17 (1.8 sq. ft)	1-90	-	-

SAT EPDM - Self Adhered Technology

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. Sure-Seal HP fastener/Sure-Seal Insulation plate.
11. InsulFAST fastener/Sure-Seal Insulation plate.
12. InsulFAST fastener/SecurFAST Insulation Fastening plate.

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