



Sure-Weld® SAT TPO
Self-Adhered Technology (SAT) Roofing System

Code Approval Guide
November 2025

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Carlisle SynTec Systems
Sure-Weld® SAT TPO
Self-Adhered Technology (SAT) Roofing System

CODE APPROVAL GUIDE

November 2025

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-Weld™ SAT Adhered Roofing System. 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

Sure-Weld® SAT TPO

Self-Adhered Technology (SAT) Roofing System

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** (<https://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 ANSI/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-Weld® SAT TPO Roofing System

**Sure-Weld® SAT TPO
Self-Adhered Technology (SAT) Roofing System**

Membrane Type: .060" Sure-Weld SAT TPO (Self-Adhered) Membrane

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

System ID	Deck Type	Insulation	Cover Board	Maximum Slope
				Sure-Weld SAT TPO
Non-Combustible - ANSI/UL 790 Spread of Flame Test-Class A				
1	Non-Combustible	InsulBase, SecurShield, SecurShield HD, SecurShield HD Plus or SecurShield HD Composite- any combination, any thickness	N/A	1/2"
2		Any UL Classified EPS or XPS Insulation, any thickness	Minimum 1/2" SecurShield HD, SecurShield HD Plus or SecurShield HD Composite	1/2"
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"
4		Insulfoam HD Composite or Insulfoam HD Composite over Insulfoam EPS, any thickness and density.	N/A	1/2"
5		Minimum 1" layer of Insulfoam SP over any UL Classified insulation, any combination, any thickness	N/A	1/2"
6		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" SECUROCK® Gypsum-Fiber	Unlimited
7		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 1/4" DensDeck Prime Roof Board	Unlimited
8		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 5/16" EcoStorm VSH	1/2"
9		Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 7/16" APA Rated OSB or Minimum 1-1/2" StormBase	2"

UL Approval
Sure-Weld® SAT TPO Roofing System

**Sure-Weld® SAT TPO
Self-Adhered Technology (SAT) Roofing System**

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

UL Approval
Sure-Weld® SAT TPO Roofing System

Sure-Weld® SAT TPO Self-Adhered Technology (SAT) Roofing System

Membrane Type: .060" Sure-Weld SAT TPO (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-Weld SAT TPO
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"
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
2	N/A	Any UL Classified Insulation, any thickness (OPTIONAL)	Minimum 5/16" EcoStorm VSH	1/2"

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SecurShield HD Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	12" ribbons or Rig Splatter of FAST	1-90	497445-0-0
Min. 1/2" DensDeck Prime or Securock	16 (2 sq. ft.)	1/2" SecurShield HD over InsulBase Polyiso	12" 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 or Rig Splatter of FAST	1-90	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft)	1/2" SecurShield HD over InsulBase Polyiso	FAST Rig Splatter	1-135	-
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	-
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	-
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	-
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	1/2" SecurShield HD	12" ribbons or Rig Splatter of FAST	1-150	464175-0-0
3/4" Optim-R	6" ribbons of FAST	1/2" SecurShield HD	6" ribbons of FAST	1-90	438109-0-0
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	1/2" SecurShield HD	6" ribbons of FAST	1-90	423358-0-0
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
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	1-315	-
Concrete Deck/SureMB 90 SBS Hot Mopped/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	1-345	512302-0-0
Gypsum Deck Tear-Off					
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/VapAir Seal 725TR with Cav-Grip III, 702-LV or 702 Primer					
Min. 1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons or Rig Splatter of FAST	1/2" SecurShield HD	12" ribbons or Rig Splatter of FAST	1-90	490377-0-0
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	-
Treated Wood Deck Tear-Off					
Min. 1/2" DensDeck or Securock overlaid with Min. 1.5" InsulBase	Loose laid	1/2" SecurShield HD	16 (2 sq. ft)	1-90	511160-0-0

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
SecurShield HD Ratings- Recover**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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	393509-0-0
-	-	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	-
Gypsum Deck					
-	-	1/2" SecurShield HD	6" ribbons of FAST	1-90	386256-0-0

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SecurShield HD Plus Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter 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 or Rig Splatter of FAST	1-90	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	FAST Rig Splatter	1-135	-
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	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-135	-
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	12" ribbons of FAST	1-90	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/2" SecurShield HD Plus over InsulBase Polyiso	6" ribbons of FAST	1-135	-
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	423336-0-0
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. 1/2" InsulBase Polyiso or Min. 1-1/2" SecurShield	12" ribbons of FAST	1/2" SecurShield HD Plus	12" ribbons of FAST	1-315	-
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 Plus	12" ribbons of FAST	1-285	519863-0-0
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 or Rig Splatter of FAST	1/2" SecurShield HD Plus	12" ribbons or Rig Splatter 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-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SecurShield HD Plus Ratings- Recover

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
InsulBase Ratings- New Construction**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck (Min. 22 Gauge)					
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft)	-	-	1-90	211158-0-0
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	-	-	1-90	211139-0-0
Min. 2" InsulBase Polyiso	32 (1 sq. ft)	-	-	1-150	450651-0-0
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 2" InsulBase Polyiso	12" ribbons or Rig Splatter 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	1-105	-
Min. 1-1/2" InsulBase Polyiso	24 (1.33 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	4" ribbons of FAST	1-150	-
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 or Rig Splatter of FAST	1-90	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	FAST Rig Splatter	1-135	-
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	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	-
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
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	16 (2 sq. ft)	-	-	1-90	211164-0-0
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-150	466129-0-0
Min. 1/2" InsulBase Polyiso	Full Coverage FAST	-	-	1-150	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	-	-	1-90	389499-0-0
Min. 1/2" InsulBase Polyiso	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	-	-	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	-
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. 1-1/2" InsulBase Polyiso	16 (2 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 or Rig Splatter 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-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
InsulBase Ratings- Recover

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck (Min. 22 Gauge)					
1" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	269886-0-0
1" InsulBase Polyiso	6" ribbons of FAST	-	-	1-90	-
Concrete Deck					
1" InsulBase Polyiso	20 (1.6 sq. ft)	-	-	1-90	267271-0-0
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-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SecurShield or SecurShield HD Composite Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					ROOFNAVY Solutions
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.)	1-90	497447-0-0
Min. 2" SecurShield or SecurShield HD Composite	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" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso or SecurShield	8 (4 sq. ft.)	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons or Rig Splatter of FAST	1-90	497446-0-0
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 or Rig Splatter 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	FAST Rig Splatter	1-135	-
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	-
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	-
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	-

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SecurShield or SecurShield HD Composite Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					ROOFNAV System
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	1-150	464176-0-0
Min. 2" SecurShield or SecurShield HD Composite	12" ribbons of FAST	-	-	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
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 or Rig Splatter 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-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
SecurShield Ratings- Recover**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SECUROCK Gypsum Fiber Roof Board Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					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	211160-0-0
-	-	Min. 1/2" Securock	16 (2 sq. ft.)	1-90	367892-0-0
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	10 (3.2 sq. ft) SecurFAST Plate	1-90	443294-0-0
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	-
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	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 or Rig Splatter of FAST	1-90	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" Securock over Min. 1-1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	504950-0-0
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" Securock	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" Securock over Min. 1-1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	504949-0-0
Min. 2" InsulBase Polyiso	16 (2 sq. ft)	Min. 1/2" Securock	12" ribbons or Rig Splatter of FAST	1-120	509832-0-0
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 or Rig Splatter of FAST	1-90	490372-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	Min. 1/4" Securock over Min. 1/2" InsulBase Polyiso	FAST Rig Splatter	1-135	-
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	-
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	-
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	-

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
SECUROCK Gypsum Fiber Roof Board Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 1/4" Securock	16 (2 sq. ft.)	1-90	211163-0-0
Min. 1/2" InsulBase Polyiso	FAST Full Coverage	Min. 1/4" Securock	FAST Full Coverage	1-90	-
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-150	464174-0-0
Min. 1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" Securock	Hot Asphalt	1-90	-
Concrete Deck/VapAir Seal 725TR with Cav-Grip III Primer, Carlisle 702 LV Primer or Carlisle 702 Primer					
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" Securock	12" ribbons of FAST	1-315	459563-0-0
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
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	1-255	512185-0-0
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 or Rig Splatter of FAST	Min. 1/4" Securock	12" ribbons or Rig Splatter 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-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
SECUROCK Gypsum Fiber Roof Board Ratings- Recover**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck (Min. 22 Gauge)					
-	-	Min. 1/4" Securock	16 (2 sq. ft.)	1-90	349155-0-0
Gypsum					
-	-	Min. 1/4" Securock	6" ribbons of FAST	1-90	386162-0-0

FM Approvals
Sure-Weld® TPO (SAT) Roofing System

Sure-Weld® SAT TPO
DensDeck Prime Roof Board Ratings- New Construction

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck (Min. 22 Gauge)					
Min. 1-1/2" InsulBase Polyiso or SecurShield	Loose laid	Min. 1/4" DensDeck Prime	12 (2.67 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 or SecurShield	Loose laid	Min. 1/2" DensDeck Prime	20 (1.6 sq. ft)	1-150	459569-0-0
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 1-1/2" InsulBase Polyiso	10 (3.2 sq. ft.)	Min. 1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	504950-0-0
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter of FAST	1-90	-
Min. 2" InsulBase Polyiso	8 (4 sq. ft)	Min. 1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	504949-0-0
Min. 2" InsulBase Polyiso	16 (2 sq. ft)	Min. 1/2" DensDeck Prime	12" ribbons or Rig Splatter of FAST	1-120	509832-0-0
Min. 1/2" DensDeck Prime	16 (2 sq. ft.)	Min. 1/4" DensDeck Prime 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.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	12" ribbons or Rig Splatter of FAST	1-90	490372-0-0
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over Min. 1/2" InsulBase Polyiso	FAST Rig Splatter	1-135	-
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	-
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	-
Steel Deck (Min. 22 Gauge)/SureMB 90TG or 120TG Base Torch Applied					
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	-
Min. 1/2" DensDeck Prime or Securock	20 (1.6 sq. ft.)	1/4" DensDeck Prime over Min. 1-1/2" InsulBase Polyiso	6" ribbons of FAST	1-135	-
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 1/4" DensDeck Prime	12" ribbons of FAST	1-150	464174-0-0
Min. 1-1/2" InsulBase Polyiso	Hot Asphalt	Min. 1/4" DensDeck Prime	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" DensDeck Prime	12" ribbons of FAST	1-315	460507-0-0
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
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	1-255	512185-0-0
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 or Rig Splatter of FAST	Min. 1/4" DensDeck Prime	12" ribbons or Rig Splatter 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-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
DensDeck Prime Roof Board Ratings- Recover**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck					
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-Weld® TPO (SAT) Roofing System

**Sure-Weld® SAT TPO
StormBase Ratings- New Construction**

Membrane Type: .060" Sure-Weld TPO SAT (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-Weld SAT TPO
					RoofNAV Number
Steel Deck (Min. 22 Gauge)					
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	17 (1.9 sq. ft)	1-90	220250-0-0
Concrete Deck					
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	16 (2 sq. ft)	1-90	211162-0-0
Min. 1-1/2" InsulBase Polyiso	Loose laid	Min. 2" StormBase	17 (1.9 sq. ft)	1-90	220251-0-0
Min. 1/2" InsulBase Polyiso	12" ribbons of FAST	Min. 2" StormBase	12" ribbons of FAST	1-90	389498-0-0
Gypsum Deck Tear-Off					
Min. 1-1/2" InsulBase Polyiso	Full-Coverage FAST	Min. 2" StormBase	Full-Coverage 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	-

SURE-WELD® TPO - Self Adhered Technology

Sure-Weld® SAT TPO

Self-Adhered Technology (SAT) Roofing System

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.

Carlisle SynTec Systems, a division of Carlisle Construction Materials LLC, P.O. Box 7000, Carlisle, PA 17013

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

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