



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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NOTICE OF ACCEPTANCE (NOA)

Carlisle SynTec Systems, a division of Carlisle Construction Materials LLC.
1285 Ritner Highway
Carlisle, PA 17013

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Carlisle Sure-Weld Single Ply TPO Roof Systems over Concrete Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 24-0502.04 and consists of pages 1 through 100.
The submitted documentation was reviewed by Alex Tigera.

02/26/26



NOA No: 24-1210.04
Expiration Date: 08/31/29
Approval Date: 02/12/26
Page 1 of 100

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	TPO
Deck Type:	Concrete
Maximum Design Pressure	-495 psf
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Sure-Weld	various	TAS 131	Reinforced white or colored, 45-mil or 60-mil thick, TPO membrane.
Sure-Weld EXTRA	various	TAS 131	Reinforced white or colored, 80-mil thick, TPO membrane.
Sure-Weld HS	various	TAS 131	Reinforced white or colored, 45-mil, 60-mil or 80-mil thick, TPO membrane.
Sure-Weld AFX 120	Various	TAS 131	Reinforced white or colored, 120-mil thick, TPO membrane with fleece backing.
Sure-Weld AFX 135	Various	TAS 131	Reinforced white or colored, 135-mil thick, TPO membrane with fleece backing.
Sure-Weld AFX 155	Various	TAS 131	Reinforced white or colored, 155-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 100	various	TAS 131	Reinforced white or colored, 100-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 115	various	TAS 131	Reinforced white or colored, 115-mil thick, TPO membrane with fleece backing.
Sure-Weld FleeceBACK 135	various	TAS 131	Reinforced white or colored, 135-mil thick, TPO membrane with fleece backing.
Sure-Weld Pressure Sensitive RUSS	various	TAS 131	TPO Reinforced Universal Securement Strip.



TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Aqua Base 120 Bonding Adhesive	Various	TAS 110	Water-based bonding adhesive
Carlisle OlyBond 500 BA	Various	TAS 110	Two-part, low-rise polyurethane adhesive
Carlisle Sure MB MC Adhesive	Various	TAS 110	Asphalt-Modified Polyether Adhesive
Flexible FAST 5-Gallon Jug Adhesive	5-gal. Box	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Dual Cartridge Adhesive	Per carton - 4 cartridge sets	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Dual Tank Adhesive	Per carton - 4 cartridge sets	TAS 110	Two-part, low-rise polyurethane adhesive
Flexible FAST Adhesive	15 & 50-gal. drum	TAS 110	Two-part, low-rise polyurethane adhesive
HydroBond Adhesive	5-gal. pail		Water-based bonding adhesive
Sure-Weld Bonding Adhesive	5-gal. pail	TAS 110	Solvent-based bonding adhesive.
Sure-Weld Low VOC Bonding Adhesive	5-gal. pail	TAS 110	Low VOC solvent based bonding adhesive



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
StormBase	Polyisocyanurate roof insulation.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
InsulBase	Polyisocyanurate roof insulation.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield	Polyisocyanurate foam core with a coated glass facer.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield HD	Polyisocyanurate foam core and high-density cover board	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
SecurShield HD Composite	Polyisocyanurate foam core with a coated glass facer.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
DensDeck, DensDeck Prime	Silicon treated gypsum	Georgia-Pacific Gypsum, LLC.
H-Shield, H-Shield NB, H-Shield CG, H-Shield HD	Isocyanurate Insulation	Hunter Panels, a div of Carlisle construction Materials, LLC.
H-Shield HD Composite CG	Polyisocyanurate foam core with a coated glass facer.	Hunter Panels, a div of Carlisle construction Materials, LLC.
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
Insulfoam EPS, InsulFoam SP, InsulFoam R-TECH	Expanded polystyrene	Insulfoam, a Div. of Carlisle Const. Materials
SECUROCK Gypsum-Fiber Roof Board	Gypsum based board stock	USG Corp.
STYROFOAM ROOFMATE	Extruded polystyrene	The Dow Chemical Co.
HP Recovery Board	High Density Wood Fiber insulation board.	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
Carlisle Sure Seal EPS	Expanded polystyrene	Carlisle Syntec, a div of Carlisle construction Materials, LLC.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	HD 14-10 Fastener	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
2.	HPX Fastener, HP-Xtra Fastener	Insulation and membrane fastener	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
3.	Insulation Fastening Plates	Metal plates used for membrane securement with Sure-Seal fasteners.	3" dia	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
4.	Piranha Plate, Piranha Xtra Plate	Metal plates used for membrane securement with Sure-Seal fasteners.	2-3/8" dia	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
5.	InsulFast Fastener	Insulation and membrane fastener	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
6.	CD-10	Insulation/membrane fastener for concrete decks.	Various	Carlisle Syntec, a div of Carlisle construction Materials, LLC.
7.	#12 Standard Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
8.	#14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
9.	Trufast #14 HD Fasteners	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
10.	Trufast #12 DP Fastener	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast 3" Metal Insulation Plate	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
12.	Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	Insulation and membrane fastener	Various	Altenloh, Brinck & Co. U.S., Inc.
13.	RhinoBond Insulation Plate (TPO)	Coated galvalume plate	3" round	OMG, Inc.
14.	RhinoBond TreadSafe Plate (TPO)	Coated galvalume plate	3" round	OMG, Inc.
15.	RhinoBond Insulation Plate	Coated galvalume plate	3" round	Carlisle Syntec, a div of Carlisle construction Materials, LLC.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
16.	OMG 3 in. Galvalume Steel Plate	Coated galvalume plate	3” round	OMG, Inc.
17.	Dekfast DF-#12-PH3	Insulation and membrane fastener	Various	SFS Group USA, Inc.
18.	Dekfast DF-#14-PH3	Insulation and membrane fastener	Various	SFS Group USA, Inc.
19.	Dekfast PLT-H-2-7/8	Galvalume AZ50 stress plate	2-7/8” x 3-1/4”	SFS Group USA, Inc.
20.	Dekfast PLT-R-3	Galvalume AZ50 stress plate	3” round	SFS Group USA, Inc.
21.	Millennium One Step Foamable Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
22.	OMG OlyBond Adhesive	Two-part, low-rise polyurethane adhesive		OMG, Inc.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-37050.01	Wind Uplift Classification	03/13/00
	ATI-37490-01	Membrane Brittleness Testing	07/07/00
	D7442.01-106-31	ASTM D2196	05/16/14
Factory Mutual Research Corp.	3Z9A1.AM	Wind Uplift and Fire Classification	10/15/97
	3001522	Wind Uplift Classification	11/03/98
	(Letter Report)		
	3003393	Wind Uplift Classification	03/26/99
	(Letter Report)		
	3001522	Wind Uplift Classification	03/26/99
	3003393	Wind Uplift Classification	03/30/99
	Approval Guide Excerpt	Wind Uplift and Fire Listings	05/00
	3007710	FM 4470	03/12/01
	3008869	FM 4470	03/19/01
	3006110	FM 4470	06/13/01
	3011220	FM 4470	08/16/01
	3011494	FM 4450	08/22/01
	3011329	FM 4470	06/10/02
	3012879	FM 4470	04/04/03
3013584	FM 4470	06/27/03	
3014692	FM 4470	08/05/03	
3014751	FM 4470	08/27/03	
3016355	FM 4450	09/15/03	
3016162	FM 4470	11/25/03	
3012144	FM 4470	06/04/04	
3019890	FM 4470	12/16/04	



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
	3017662	FM 4470	06/07/05
	3023032	FM 4470	07/20/05
	3022181	FM 4470	09/01/05
	3022187	FM 4470	09/15/05
	3019897	FM 4470	10/07/05
	3020845	FM 4470	01/22/06
	3021941	FM 4470	03/20/06
	3023340	FM 4470	03/20/06
	3023458	FM 4450	07/18/06
	3026316	FM 4470	04/24/07
	3021235	FM 4450	06/01/07
	3026964	FM 4470	07/25/07
	3028438	FM 4470	08/22/07
	3026951	FM 4470	01/21/08
	3029840	FM 4470	09/08/08
	3033217	FM 4470	12/08/08
	3034776	FM 4470	08/07/09
	3034297	FM 4470	11/13/09
	3038140	FM 4470	08/04/10
	3041797	FM 4470	10/13/11
	3039073	FM 4470	11/22/11
	3040260	FM 4470	02/27/12
	3039762	FM 4470	09/07/12
	3040006	FM 4470	09/13/12
	3047327	FM 4470	09/13/12
	3040639	FM 4470	09/18/12
	3043858	FM 4470	09/25/12
	3046083	FM 4470	03/27/14
	3049189	FM 4470	03/31/15
	3055462	FM 4470	11/03/15
	3056745	FM 4470	09/28/16
Celotex Corporation Testing Services	520257	Membrane Physical Property Testing	4/19/00
SGS U.S. Testing Company Inc.	131248-R2	Membrane Ozone Testing	1/6/00
Trinity ERD	C46470.07.14-1A	TAS 131	07/16/14
	C46470.07.14-1B	TAS 131	07/16/14
	C46470.07.14-2A	TAS 131	07/30/14
	C46470.07.14-4-R1	TAS 131	07/21/14
	4r-CRL-20-SSTHP-.02.D	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.02.C	TAS 131	04/27/21
	4-CRL-18-002.04.18-2A	TAS 131	04/30/18
	4r-CRL-20-SSTHP-02.B.R2	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.02.A	TAS 131	04/27/21
	4r-CRL-20-SSTHP-.03.A	TAS 131	04/27/21



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Atlantic & Caribbean Roof Consulting	ACRC 10-019	TAS 114	08/25/10
	ACRC 10-018	TAS 114	08/25/10
	ACRC 15-019	TAS 114	07/14/15
	ACRC 15-020	TAS 114	07/14/15
	ACRC 15-021	TAS 114	07/15/15
	ACRC 15-037	TAS 114	12/28/15
	ACRC 15-038	TAS 114	12/28/15
	ACRC 15-045	TAS 114	01/11/16
	ACRC 15-046	TAS 114	01/11/16
	ACRC 15-047	TAS 114	01/12/16



APPROVED ASSEMBLIES

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete.

System Type A(1): One or more layers of insulation adhered with Flexible FAST Adhesive or Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -90 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(2): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulFoam SP Minimum 1.0” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive applied in 3/4” to 1” ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in 1/2” to 3/4” ribbons spaced 12” o.c. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -112.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(3): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5 Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(4): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD Composite, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the primed concrete deck with Flexible FAST Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(5): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD, H-Shield HD Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(6): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(7): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A
Insulfoam EPS, Carlisle Sure Seal EPS Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/60ft² (finished surface area). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(8): One or more layers of insulation adhered with Carlisle OlyBond 500 BA or One-Step Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)
 One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A

Note: All insulation shall be adhered with Carlisle OlyBond 500 BA applied in ¾” to 1” wide ribbons spaced 12” o.c., or Millennium One Step Foamable Adhesive applied in ½” to ¾” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft². Outside 1.5” of side laps are heat welded.



Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq or Sure-MB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -127.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(9): One or more layers of insulation adhered with Carlisle OlyBond 500 BA Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.

(Optional)

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Polyisocyanurate HP-H, InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A

Note: All insulation shall be adhered with Carlisle OlyBond 500 BA applied in 3/4” to 1” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -127.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(10): One or more layers of insulation adhered with approved asphalt or Carlisle OlyBond 500 BA. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
StormBase, H-Shield NB Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft², or Carlisle OlyBond 500 BA applied in 3/4" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.
 Or
 Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.
 Or
 Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -150 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(11): One or more layers of insulation adhered with approved asphalt or Carlisle OlyBond 500 BA. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)
 One or more layers of any of the following insulations.

<u>(Optional) Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft², or Carlisle OlyBond 500BA applied in ¾” to 1” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.



Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -150 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(12): One or more layers of insulation adhered with Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulFoam SP Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -157.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(13): One or more layers of insulation adhered with approved asphalt, Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST Dual Tank Adhesive or Flexible FAST 5-Gallon Jug Adhesive, Carlisle OlyBond 500 BA or One-Step Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 0.5" thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in full mopping of approved asphalt within the EVT range and at a rate of 20-25 lbs/100 ft² or Flexible FAST Dual Tank Adhesive at a rate of 1 gal./sq. or Flexible FAST Adhesive applied at a rate of 1 gal./sq. or in 1/2" to 3/4" wide ribbons spaced 12" o.c. or Carlisle OlyBond 500BA or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. or Millennium One Step Foamable Adhesive applied in 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.



Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation SureMB MD MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -157.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(14): One or more layers of insulation adhered Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD, H-Shield HD Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -160.0 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(15): One or more layers of insulation adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD, H-Shield HD Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -172.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(16): One or more layers of insulation adhered with One-Step Adhesive or with Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
StormBase, H-Shield NB Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive at a rate of 1.2 gal./sq. or Millennium One Step Foamable Adhesive at a rate of 1/3 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -187.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(17): One or more layers of insulation adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -120 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(18): One or more layers of insulation adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
STYROFOAM ROOFMATE Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½” to ¾” ribbons spaced 12” o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/60ft² (finished surface area). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -232.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete.

System Type A(19): One or more layers of insulation adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered with Millennium One Step Foamable Adhesive applied in ½” to ¾” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.



Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt (*only to DensDeck or DensDeck Prime*) applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft² Outside 1.5" of side laps are heat welded.

**Maximum Design
Pressure:**

-232.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(20): One or more layers of insulation adhered with Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Cartridge Adhesive Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. or Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -240.0 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(21): One or more layers of insulation adhered with Flexible FAST Dual Cartridge Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulFoam SP Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Cartridge Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Dual Cartridge Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -240 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(22): One or more layers of insulation adhered with Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾" to 1" ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -240.0 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(23): One or more layers of insulation adhered with hot asphalt or Carlisle OlyBond 500 BA or One-Step Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 2.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in hot asphalt in full coverage at 25 lb/sq. or with Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive applied in 3/4" ribbons spaced 12" o.c. Refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -247.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(24): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -232.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(25): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD Composite, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be adhered to the primed concrete deck with Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" oc. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -285 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(26): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Fleeceback FAST Dual Tank Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -285 psf; Membrane adhered with Aqua Base 120 Bonding Adhesive (See General Limitation #9)
-382.5 psf; Membrane adhered with all other membrane adhesives (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(27): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -285 psf; Membrane adhered with HydroBond or Aqua Base 120 Bonding Adhesive (See General Limitation #9)
-457.5 psf; Membrane adhered with all other membrane adhesives (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(28): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulFoam SP Minimum 1.0" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" oc. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -290 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(29): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>(Optional) Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.2” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be adhered with Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive (*not for use with fiberboard insulation*) applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -322.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(30): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in 1/2” to 3/4” ribbons spaced 12” oc. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in 1/2” to 3/4” ribbons spaced 12” o.c. Outside 1.5” of side laps are heat welded.
 Or
 Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation using SureMB MC Adhesive Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -244 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(31): One or more layers of insulation adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
STYROFOAM ROOFMATE Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½” to ¾” ribbons spaced 12” o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5 Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” o.c. Top insulation shall be staggered when placed over base insulation layer. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered with Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/60ft² (finished surface area). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -322.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(32): One or more layers of insulation adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
STYROFOAM ROOFMATE Minimum 1” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½” to ¾” ribbons spaced 12” o.c. or in Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” o.c. Top insulation shall be staggered when placed over base insulation layer. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. Outside 1.5” of side laps are heat welded.

Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation with SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -330 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(33): One or more layers of insulation adhered Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Dual Tank Adhesive or Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -352.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(34): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Dual Tank Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt (*only to DensDeck or DensDeck Prime*) applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: –375 psf. With DensDeck or DensDeck Prime (See General Limitation #9)
–382.5 psf. With all other insulation boards (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(35): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to the insulation in a full mopping of approved asphalt (*only to DensDeck or DensDeck Prime*) applied within the EVT range and at a rate of 20-25 lbs./sq or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal/67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: –375 psf. With DensDeck or DensDeck Prime (See General Limitation #9)
–457.5 psf. With all other insulation boards (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(36): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.
All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD Composite, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be fully adhered to deck with Flexible FAST Dual Tank Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -382.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(37): One or more layers of insulation adhered with Flexible FAST Dual Tank Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>(Optional) Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
 <u>Top Insulation Layer</u>	 <u>Insulation Fasteners (Table 3)</u>	 <u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
Plywood Minimum 19/32” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Dual Tank Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal./sq. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -382.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(38): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the deck in Flexible FAST Adhesive applied in ½" to ¾" ribbons spaced 12" oc. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -395.0 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete.

System Type A(39): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD Composite, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A

Note: All insulation shall be fully adhered to the primed concrete deck with Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using or Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -427.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(40): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL of FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>(Optional) Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
Plywood Minimum 19/32” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -457.5 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type A(41): One or more layers of insulation adhered with Flexible FAST Adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: (Optional) Any UL of FMRC approved vapor retarder applied to the roof deck.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A

Note: All insulation shall be fully adhered to the deck with Flexible FAST Adhesive at a rate of 1 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -480 psf. (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(1): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1, 5, 6, 7, 8	1:2 ft ²
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Top insulation layer shall be fully adhered with OMG OlyBond Adhesive applied at a rate of 1 gal.sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(2): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1, 6	1:2 ft ²
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A

Note: Top insulation layer shall be adhered to the deck in Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST Dual Tank Adhesive or FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” oc. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” o.c. (Offset 6” o.c. from ribbons securing insulation). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(3): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG		
Minimum 1.5" thick	1, 6	1:3.2 ft ²
Minimum 2" thick	1, 6	1:4 ft ²
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG		
Minimum 1" thick	N/A	N/A
DensDeck Prime		
Minimum 1/4" thick	N/A	N/A

Note: Top insulation layer shall be adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST Dual Tank Adhesive or Flexible FAST 5 Gallon Jug Adhesive applied in ribbons spaced 12 in. o.c. Adhesive ribbons are staggered 6 in. from layer below when using additional layers of insulation. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(4): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 2.0" thick	1, 5, 6, 7, 8, 10	1:2.67 ft ²
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: Top insulation layer shall be adhered with Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive applied in ¾" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(5): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1, 5, 6, 7	1:1.8 ft ²
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD, H-Shield HD Minimum ½” thick	N/A	N/A

Note: Top insulation layer shall be adhered with Flexible FAST Adhesive applied in ¾” to 1” ribbons spaced 6 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membranes shall fully adhered using Sure-Weld Low VOC Bonding Adhesive applied to the underside of the substrate and underside of the membrane at a rate of 1.66 gal/sq. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(6): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 2.0" thick	1, 5, 6, 7, 8	1:1.6 ft ²
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A

Note: Top insulation layer shall be adhered with Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive applied in ¾" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -60.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(7): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1, 5, 6, 7	1:1.33 ft ²
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD, H-Shield HD Minimum ½” thick	N/A	N/A

Note: Top insulation layer shall be adhered with Flexible FAST Adhesive applied in ¾” to 1” ribbons spaced 4 in. o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membranes shall fully adhered using Sure-Weld Low VOC Bonding Adhesive applied to the underside of the substrate and underside of the membrane at a rate of 1.66 gal/sq. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -82.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type B(8): Base layers of insulation mechanically attached, top layer adhered with approved adhesive. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1, 6	1:1.6 ft ²
<u>(Optional) Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A

Note: Top insulation shall be adhered with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST Dual Tank Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in 3/4” to 1” ribbons spaced 6 in. o.c. Adhesive ribbons are staggered 3 in. from layer below when using additional layers of insulation. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the Polyisocyanurate side facing down.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -82.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(1): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼” thick	1, 6	1:2 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 12” o.c. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(2): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	1, 6, 9, 10, 17, 18	1:2 ft ²
Minimum ½” thick	1, 6	1:3.2 ft ²
Minimum 5/8” thick	1, 6	1:4 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive, Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1.66 gal/sq. or with Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(3): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG		
Minimum 1.4" thick	1, 6, 9	1:3.2 ft²
Minimum 2" thick	1, 6, 9	1:4 ft²
DensDeck, DensDeck Prime		
Minimum ¼" thick	1, 6	1:2 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Top layer of insulation may be adhered with, Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membranes fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft². Outside 1.5" of side laps are heat welded.

Or

Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive (*not for use with fiberboard insulation*) applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded



Or

Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane fully adhered to the insulation in a mopping of approved asphalt (*not for use with polyiso*) applied within the EVT range and at a rate of 20-25 lbs./sq. or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal./67 ft². Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -45 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(4): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5" thick	1 with 13, 14, 15	1: 5.33 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld or Sure-Weld EXTRA membrane shall be bonded to RhinoBond Plates with RhinoBond induction welding tool. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -45.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(5): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Plywood Minimum 19/32" thick	1, 6	1:1.9 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered with Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft². Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -52.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(6): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	1 with 13, 14, 15	1: 4 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld or Sure-Weld EXTRA membrane shall be bonded to RhinoBond Plates with RhinoBond induction welding tool. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -60.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(7): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	See Fastening Details	See Fastening Details

Note: All insulation shall have preliminary attachment prior to the application of RhinoBond Plates and fasteners as outlined below. See membrane description for fastener details. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld or Sure-Weld EXTRA membranes shall be bonded to RhinoBond Insulation Plates as specified below:

Fastening: Insulation shall be mechanically attached with HD 14-10 Fasteners and RhinoBond Insulation Plates or RhinoBond TreadSafe Plates spaced 6” o.c. in rows spaced 5’ o.c. Membrane shall be bonded to RhinoBond Plates with RhinoBond induction welding tool. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -67.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(8): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 1.0” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½” thick	1, 6	1:1.66 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1.66 gal/sq. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -75.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(9): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 2.0" thick	1, 6	1:1.6 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.
 Or
 Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -75.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(10): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Plywood Minimum 19/32” thick	1, 6	1:1.9 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered with Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/60ft² (finished surface area). Outside 1.5” of side laps are heat welded.
 Or
 Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft² or HydroBond Adhesive applied to the substrate only at a rate 100 ft²/gal. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -75.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(11): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved XPS listed in Table 2 Minimum 1” thick	N/A	N/A
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Minimum ¾” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Minimum 1” thick	N/A	N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Single and multiple layers of insulation can be attached to base layer with Carlisle Syntec Flexible FAST Adhesive.



Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

DensDeck Prime
Minimum 5/8" thick

1, 6

1:1.33 ft²

Note: Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -90 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(12): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.5" thick	1 with 13, 14, 15	1:2 ft ²

Note: Insulation layers shall be staggered by 1' parallel to the 8' length. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld or Sure-Weld EXTRA membrane shall be bonded to RhinoBond Plates with RhinoBond induction welding tool. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -97.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(13): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Plywood Minimum 19/32” thick	1, 6	1:1 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -97.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(14): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 2.0" thick	1, 6	1:1 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(15): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½” thick	1, 6	1:1.33 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -112.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(16): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 5/8" thick	1, 6	1:1.33 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -112.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(17): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
SecurShield, SecurShield HD Composite, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 2.0" thick	1, 6	1:1 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive or Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface). Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -120.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(18): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½” thick	1, 6	1:1 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane fully adhered to the insulation using Sure-Weld Low VOC Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft² (finished surface) or Aqua Base 120 Bonding Adhesive applied to the substrate and underside of the membrane at a rate of 1 gal/120 ft² (finished surface). Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -127.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(19): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG (flat or tapered) Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½” thick	1, 6	1:1 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in ½” to ¾” ribbons spaced 4” o.c. or Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in ¾” to 1” ribbons spaced 4” o.c. Outside 1.5” of side laps are heat welded.

Maximum Design Pressure: -135 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(20): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Plywood Minimum 19/32" thick	1, 6	1:1 ft ²

Note: Top insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive applied in 3/4" to 1" ribbons spaced 4" o.c. or applied to the substrate at a rate of 100 ft²/gal. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -135.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(21): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield, H-Shield CG (flat or tapered) Minimum 2.0" thick	1, 6	1:1 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5 Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 4" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -135.0 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type C(22): All layers of insulation simultaneously attached. Membrane adhered.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SecurShield HD Composite, H-Shield HD Composite CG (flat or tapered) Minimum 2.0" thick	1, 6	1:1 ft ²

Note: Insulation layer shall be mechanically attached using the fastener density listed above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membranes fully adhered to the insulation using Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive or Flexible FAST 5-Gallon Jug Adhesive applied in 3/4" to 1" ribbons spaced 4" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -157.5 psf (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(1): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate listed in Table 2 Minimum 1.5” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ½” thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum ¾” thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum ½” thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Single and multiple layers of insulation can be attached to the deck with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST 5-Gallon Jug Adhesive, Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA secured through the preliminarily attached insulation as specified below.

Fastening #1: HD 14-10 or CD-10 Fasteners with Piranha Plates 9" o.c. through the Sure-Weld HS Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.



Fastening #2: HD 14-10 or CD-10 Fasteners with Piranha Plates 12" o.c. through the Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA. Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.

Maximum Design Pressure: -45 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(2): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved Polyisocyanurate listed in Table 2 Minimum 1.5" thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum ½" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA secured through the preliminarily attached insulation as specified below.

Fastening: HD 14-10 or CD-10 Fasteners with Piranha Plates 12" o.c. through the Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 7'-7" o.c.

Maximum Design Pressure: -45 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(3): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
One of the following covered with the boards listed in “Base or Top Insulation Layer”.		
Any approved XPS insulation listed in Table 2		
Minimum 1” thick	N/A	N/A
<u>Base or Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2		
Minimum 1.4” thick	N/A	N/A
SecurShield HD, H-Shield HD		
Minimum ½” thick	N/A	N/A
Any Approved High Density Fiberboard Roof Insulation listed in Table 2		
Minimum ¾” thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼” thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Single and multiple layers of insulation can be attached to the deck with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST 5- Gallon Jug Adhesive, Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA, secured through the preliminarily attached insulation as specified below.



Fastening #1: HD 14-10 or CD-10 Fasteners with Piranha Plates 9" o.c. through the Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-6" o.c.

Maximum Design Pressure: *-45 psf. (See General Limitation #7)*

Fastening #2: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld HS membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.

Maximum Design Pressure: *-52.5 psf. (See General Limitation #7)*

Maximum Design Pressure: See Fastening Options Above



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(4): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum 1/2" thick	N/A	N/A
Minimum 3/4" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum 1/2" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA, secured through the preliminarily attached insulation as specified below.

Fastening: HD 14-10 or CD-10 Fasteners with Piranha Plates 12" o.c. through the 5.5" wide lap in rows spaced 3'-6" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -52.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(5): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.4" thick	N/A	N/A
Any Approved High Density Fiberboard Roof Insulation listed in Table 2 Minimum 3/4" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum 1/2" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Single and multiple layers of insulation can be attached to the deck with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST 5 Gallon Jug Adhesive, Carlisle OlyBond 500 BA or Millennium One Step Foamable Adhesive.

Membrane: Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA secured through the preliminarily attached insulation as specified below.

Fastening #1: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 9'-7" o.c.



Fastening #2: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld HS Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 7'-7" o.c.

Fastening #3: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the Sure-Weld, Sure-Weld HS or Sure-Weld EXTRA Membrane in the lap or through a Sure-Weld Pressure Sensitive RUSS Strip in rows spaced 11'-7" o.c.

Maximum Design Pressure: -60 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(6): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
InsulBase, SecurShield, SecurShield HD Composite, H-Shield, H-Shield CG, H-Shield HD Composite CG Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard, HP Recovery Board Minimum 1/2" thick	N/A	N/A
Minimum 3/4" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum 1/2" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. Single and multiple layers of insulation can be attached to the deck with Flexible FAST Adhesive, Flexible FAST Dual Cartridge Adhesive, Flexible FAST 5 Gallon Jug Adhesive, Carlisle OlyBond 500BA or Millennium One Step Foamable Adhesive.

Membrane: Sure-Weld or Sure-Weld EXTRA secured through the preliminarily attached insulation as specified below.

Fastening: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the lap in rows spaced 7'-7" o.c.

Maximum Design Pressure: -67.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete.
System Type D(7): Membrane mechanically attached over preliminarily fastened insulation.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Retarder: Any UL or FMRC approved vapor retarder applied to the roof deck.
(Optional)

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate insulation listed in Table 2 Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation, HP Recovery Board Minimum 1/2" thick	N/A	N/A
Minimum 3/4" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A
SecurShield HD, H-Shield HD Minimum 1/2" thick	N/A	N/A

Note: All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Membrane: Sure-Weld or Sure-Weld EXTRA secured through the preliminarily attached insulation as specified below.

Fastening: HD 14-10 or CD-10 Fasteners with Piranha Plates 6" o.c. through the 5.5" wide lap in rows spaced 3'-6" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -82.5 psf. (See General Limitation #7)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete.
System Type F(1): Membrane adhered with Flexible FAST Dual Cartridge Adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Dual Cartridge Adhesive applied in 3/4" to 1" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -240.0 psf; (See General Limitation #9)

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete.
System Type F(2): Membrane adhered with Flexible FAST Adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane adhered to the insulation using Flexible FAST Adhesive applied in 1/2" to 3/4" ribbons spaced 12" o.c. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -392.5 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete.
System Type F(3): Membrane adhered with Flexible FAST Adhesive or Aqua Base 120 Bonding Adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the deck using Flexible FAST Adhesive applied to the substrate at a rate of 1 gal/sq. or Aqua Base 120 Bonding Adhesive applied to the substrate only at a rate of 1 gal/120 ft².

Maximum Design Pressure: -480 psf with Aqua Base 120 Bonding Adhesive (See General Limitation #9)
-495 psf with all other applications (See General Limitation #9)

Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete.
System Type F(4): Membrane adhered with Flexible FAST Adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sure-Weld FleeceBACK 100, Sure-Weld FleeceBACK 115 or Sure-Weld FleeceBACK 135 membrane fully adhered to the insulation using Flexible FAST Adhesive applied at a rate of 1 gal/sq. Outside 1.5" of side laps are heat welded.

Maximum Design Pressure: -495.0 psf; (See General Limitation #9)



Membrane Type: Single Ply, Thermoplastic, TPO, Reinforced, FleeceBACK
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete.
System Type F(5): Membrane adhered with Asphalt or SureMB MC Adhesive.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Membrane: Sure-Weld AFX 120, Sure-Weld AFX 135 or Sure-Weld AFX 155 membrane adhered to primed (cut-back asphalt) deck in a full mopping of approved asphalt within the EVT range and at a rate of 20-25 lbs./sq. or SureMB MC Adhesive applied to the substrate only at a rate of 1 gal./67ft².

Maximum Design Pressure: -495.0 psf (See General Limitation #9)



CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



11. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No: 24-1210.04
Expiration Date: 08/31/29
Approval Date: 02/12/26
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