



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)

Allied Building Products Corp. dba TRI-BUILT Materials Group  
15 East Union Avenue  
East Rutherford, NJ 07073

### 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: TRI-BUILT Self-Adhered Roof System over Concrete Deck

**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 renews NOA #12-1213.11 and consists of pages 1 through 24.  
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0425.09  
Expiration Date: 11/22/17  
Approval Date: 10/03/13  
Page 1 of 24

## ROOFING ASSEMBLY APPROVAL

<b>Category:</b>	Roofing
<b>Sub-Category:</b>	Modified Bitumen
<b>Materials</b>	SBS/APP
<b>Deck Type:</b>	Concrete
<b>Maximum Design Pressure</b>	-545 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
TRI-BUILT SA SBS Base	32' 10" x 3' 3- <sup>3</sup> / <sub>8</sub> "	ASTM D 6163, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
TRI-BUILT SA SBS Cap	32' 10" x 3' 3- <sup>3</sup> / <sub>8</sub> "	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
TRI-BUILT SA APP Cap	32' 10" x 3' 3- <sup>3</sup> / <sub>8</sub> "	ASTM D 6222, Type I	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
PG100 Asphalt Primer	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	ASTM D41	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.



**APPROVED INSULATIONS:**

**TABLE 2**

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
ISO 95+GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
XPS, EPS	Extruded or Expanded Polystyrene	Generic
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard, Inc.
DensDeck, DensDeck Prime, DensDeck DuraGuard Roof Board	Gypsum insulation board	Georgia-Pacific Gypsum LLC
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board	United States Gypsum Corporation
ENRGY-3, JM ISO 3	Polyisocyanurate foam insulation	Johns Manville Corporation
Fesco Board	Expanded mineral fiber	Johns Manville Corporation
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate foam insulation	Hunter Panels, LLC
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, 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.	Dekfast #14 & #15 HS	Insulation fastener for wood, steel and concrete decks	Various	SFS Intec, Inc.
2.	Dekfast Galvalume Steel Hex	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Intec, Inc.
3.	#14 & #15 Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
4.	Flat Bottom Metal Plate	A2-SS aluminized steel plate	3" square	OMG, Inc.
5.	Dekfast Galvalume Steel 3" Round	3" round galvalume AZ50 steel plate	3" round	SFS Intec, Inc.
6.	Trufast #14 HD Fastener	Insulation fastener for wood, steel and concrete decks	Various	Altenloh, Brinck & Co. U.S., Inc.
7.	Trufast 3" Metal Insulation Plate	Round Galvalume AZ50 steel plate	3.23 round 3" round	Altenloh, Brinck & Co. U.S., Inc.

**APPROVED SURFACING:**

**TABLE 4**

	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
Gravel		To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
Slag		To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic



**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	4470	J.I. 2W7A7.AM	08/04/94
	4450	2D5A9.AM	06/22/99
	4470	J.I. 3001334	02/15/00
	4470	J.I. 3000857	01/12/00
	4470	J.I. 3004091	01/12/00
	4470	3012321	07/29/07
	4450	3014751	08/27/03
	4450	3019317	06/30/04
	4470	3014692	08/05/03
Trinity   ERD	TAS 114	11752.09.99-1	02/08/00
	TAS 114	02764.09.05	09/09/05
	TAS 114	020843.02.05-1	02/10/05
	TAS 114	02762.03.05	03/30/05
	TAS 117(B)-ASTM D903	020841.06.04	06/02/04
	TAS 114	P1734.07.06-R1	02/27/07
	TAS 114	02843.07.07	07/23/07
	TAS 114	P1738.02.07	02/05/07
	TAS 114	P1739.01.07	01/23/07
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11/30/07
	ASTM D6164 / ASTM D6222	P10490.08.08	08/13/08
	ASTM D6164 / ASTM D6222	P10490.10.08-R1	10/03/08
	ASTM D6222	P7400.03.08-R2	10/09/08
	TAS 114(D) – ASTM D1876	P10070.10.08	10/09/08
	ASTM D6222	P10490.10.08-2	10/30/08
	FM 4470 & TAS 114	P33970.03.11	03/15/11
	ASTM D6163 / ASTM D 4601	P33960.03.11	03/15/11
TAS 114 (D) & FM 4470	P9060.09.11	09/12/11	
PRI Asphalt Technologies	ASTM D6222	PUSA-061-02-02	01/28/08
	ASTM D6222	PUSA-062-02-02	12/04/08
	ASTM D6163	PUSA-064-02-02	02/27/08



**APPROVED ASSEMBLIES:**

- Membrane Type:** SBS/APP
- Deck Type 3I:** Concrete Decks, Insulated
- Deck Description:** 2500 psi structural concrete or concrete plank
- System Type A(1):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Multi-Max FA-3, H-Shield Minimum 1.5” thick	N/A	N/A
 <u>Top Insulation Layer</u>	 <u>Insulation Fasteners (Table 3)</u>	 <u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

**Note: Apply insulation in Insta Stick Quik Set Insulation Adhesive in continuous ¾ to 1” beads/ribbons spaced 12” o.c., application of PG100 Asphalt Primer is optional. Additional layers of insulation to be adhered with Insta-Stick Adhesive in continuous ¾ to 1” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

- Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.
- Membrane:** One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap self adhered.
- Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
- Maximum Design Pressure:** -67.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(2):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

**Vapor Barrier:** (Optional) Cold-applied base sheet approved for use with roof cover, adhered to concrete deck primed with PG100 Asphalt Primer.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A

**Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.

**Membrane:** One ply of TRI-BUILT SA SBS Cap or TRI-BUILT SA APP Cap self adhered.

**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -67.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(3):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved EPS; min 2.0 pcf (Requires Top Layer of Insulation) Minimum 2” thick	N/A	N/A
Structodeck High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Structodeck High Density Fiberboard Roof Insulation Minimum ½” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

**Note: Apply insulation in OlyBond 500 Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with OlyBond 500 Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -120.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(4):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ENRGY-3, ISO 95+ GL, H-Shield Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

**Note: Apply insulation in OlyBond 500 Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with OlyBond 500 Adhesive in continuous ¾” to 1” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -127.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(5):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

**Note: Apply insulation in OlyBond 500 Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with OlyBond 500 Adhesive in continuous ¾" to 1" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -150.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(6):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved EPS; min 1.8 pcf Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved High Density Wood Fiberboard Minimum ½” thick	N/A	N/A

**Note: Apply insulation in Insta Stick Quik Set Insulation Adhesive in continuous ¾ to 1” beads/ribbons spaced 12” o.c. Additional layers of insulation to be adhered with Insta-Stick Adhesive in continuous ¾ to 1” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -157.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(7):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ENRGY 3, H-Shield, Multi-Max FA-3 Minimum 1.5” thick	N/A	N/A

**Note: Apply insulation in Millennium One-Step Foamable Adhesive in continuous ½” to ¾” beads/ribbons spaced 12” o.c., application of PG100 Asphalt Primer is optional. Additional layers of insulation to be adhered with Millennium One-Step Foamable Adhesive in continuous ½” to ¾” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -232.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(8):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

**Vapor Barrier:** (Optional) Approved self-adhered sheet attached to concrete deck primed with PG100 Asphalt Primer.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved Expanded Polystyrene min 2.0 pcf Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime Minimum 1/4" thick	N/A	N/A

**Note: Apply insulation in TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Additional layers of insulation to be adhered with TITESET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -240.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(9):** All layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

**Vapor Barrier:** (Optional) Approved self-adhered sheet attached to concrete deck primed with PG100 Asphalt Primer.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A

**Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. to concrete deck primed with PG100 Asphalt Primer. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3" to 3-1/2" beads/ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.

**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.

**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -250.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(10):** All layers of insulation adhered to concrete deck primed with PG100 Asphalt Primer. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA3 Minimum 1.5” thick	N/A	N/A
DensDeck Minimum ½” thick	N/A	N/A

**Note: Apply insulation in TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. to concrete deck primed with PG100 Asphalt Primer. Additional layers of insulation to be adhered with TITSEET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -262.5 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(11):** One or more layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, H-Shield Minimum 2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

**Note: All insulation shall be adhered with hot asphalt at a rate of 25 lbs/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.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -350 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(12):** One or more layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, ACFoam-III, ENRGY 3, H-Shield, H-Shield CG, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A

**Note:** Concrete deck shall be primed with PG100 Asphalt Primer and allowed to dry prior to application of insulation. Apply insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. 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.

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -480.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(13):** One or more layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

**Note:** All insulation shall be adhered with Insta Stick Quik Set Insulation Adhesive in continuous ¾ to 1” beads/ribbons, OlyBond 500 in continuous ¾” to 1” beads/ribbons, TITASET Roofing Adhesive or 3M Polyurethane Foam Insulation Adhesive CR-20 in continuous 3” to 3-1/2” beads/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.

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -510 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(14):** One or more layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II Minimum 2” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A

**Note: All insulation shall be adhered with OlyBond at rate of 1 gal/ 100ft<sup>2</sup>. 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.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -545 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type A(15):** One or more layers of insulation adhered to concrete deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II Minimum 2" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	N/A	N/A

**Note:** Apply insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. 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.

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -545.0 psf (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(1):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ENRGY-3, H-Shield Minimum 1.5" thick	1, 5, or 6	1:1.33 ft <sup>2</sup>

**Note:** All layers of insulation shall be mechanically attached using the fastener density listed above. The 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base self-adhered.  
**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.  
**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.  
**Maximum Design Pressure:** -82.5 psf; (See General limitation #7.)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(2):** All layers of insulation are mechanically attached to roof deck. Membrane is subsequently adhered to insulation.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
Any approved Polyisocyanurate listed in Table 2 Minimum 1.5" 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.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	1, or 6	1:1.33 ft <sup>2</sup>

**Base Sheet:** One or more plies of Elastobase, or an ASTM D4601, Type II approved base sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

**Ply Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.

**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.

**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -82.5 psf; (See General limitation #7.)



**Membrane Type:** SBS/APP  
**Deck Type 3:** Concrete Decks, Non-Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type F:** Base sheet self-adhered.

**All General and System Limitations apply.**

**Note: Concrete deck shall be primed with PG100 Asphalt Primer and allowed to dry prior to application of base sheet.**

**Base Sheet:** One or more plies of TRI-BUILT SA SBS Base, self-adhered.

**Membrane:** One ply of TRI-BUILT SA SBS Cap, or TRI-BUILT SA APP Cap self adhered.

**Surfacing:** (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -315 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 117, 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 Professional Engineer, Registered 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. 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.)**

**END OF THIS ACCEPTANCE**



NOA No.: 13-0425.09  
Expiration Date: 11/22/17  
Approval Date: 10/03/13  
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