MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Beacon Sales Acquisition, Inc.
505 Huntmar Park Dr
Herndon, VA 20170

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 SA Modified Bitumen Roofing 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 consists of pages 1 through 11.
The submitted documentation was reviewed by Alex Tigera.

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	SBS
Deck Type:	Concrete
Maximum Design Pressure	-630 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Description
TRI-BUILT SA Nailbase	39 3/8" x 66'6"; Roll weight: 82 lbs.	ASTM D 4601, Type II	Fiberglass reinforced, SBS modified bitumen base sheet.
TRI-BUILT SA Plybase	39 3/8" x 66'6"; Roll weight: 86 lbs. (2 squares)	ASTM D 1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet
TRI-BUILT SA Cap	39 3/8" x 32'11"; Roll weight: 95 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Self-adhering, polyester reinforced, SBS modified bitumen cap sheet.

APPROVED INSULATIONS:

TABLE 2

Product	Product Description	Manufacturer (with current NOA)
ACFoam-II, ACFoam-III	Polyisocyanurate insulation	Atlas Roofing Corp.
ENRGY 3	Polyisocyanurate insulation	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate insulation	Rmax Operating, LLC
H-Shield	Polyisocyanurate insulation	Hunter Panels, LLC
DensDeck Roof Board,	Gypsum cover board	Georgia Pacific Gypsum, LLC
DensDeck Prime Roof Board	Gypsum cover board	Georgia Pacific Gypsum, LLC

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA, Inc.
2.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc
3.	Dekfast PLT-R-3	Galvalume AZ50 stress plate	3” round	SFS Group USA, Inc.
4.	Trufast #14 HD Fastener	Insulation fastener for steel and wood decks		Altenloh, Brinck & Co. U.S., Inc.
5.	Trufast 3” Metal Insulation Plates	Galvalume Stress Plates	3” round	Altenloh, Brinck & Co. U.S., Inc.
6.	#14 Roofgrip	Insulation and membrane fastener	Various	OMG, Inc.
7.	3 in. Round Metal Plate	Galvalume steel stress plate	3” round	OMG, Inc.
8.	OMG Flat Bottom Metal Plates	Insulation and membrane fastener aluminized steel plate	3” square	OMG, Inc.
9.	ICP Adhesive CR-20	Polyurethane two component low rise insulation adhesive		ICP Adhesives and Sealants, Inc.
10.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive		H.B. Fuller Company
11.	OMG OlyBond 500 Adhesive	Spray polyurethane foam insulation adhesive		OMG, Inc.
12.	OMG OlyBond 500 Green Adhesive	Spray polyurethane foam insulation adhesive	.	OMG, Inc
13.	Insta Stik Quik Set Insulation Adhesive	Polyurethane one component moisture curing adhesive		The Dow Chemical Company

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

System Number	Manufacturer	Application
1.	Generic	Gravel applied at 400 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
2.	Generic	Slag applied at 300 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
3.	Karnak Corp.	Karnak (#97 AF) Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
4.	Gardner Asphalt Corp.	APOC #212 Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Underwriters Laboratories	R11656	UL790	Annually
Momentum Technologies, Inc.	DX08C4A	Physical Properties	03/22/04
	DX20E3A	Physical Properties	03/22/04
Factory Mutual Research	3009610	FM 4450	10/15/01
	2D5A9.AM	FM 4450	06/22/99
	3014751	FM 4450	08/12/03
	3014692	FM 4450	08/05/03
	3012321	FM 4450	07/29/02
	3008869	FM 4470	03/19/01
	3037127	FM 4470	01/11/10
	3025766	FM 4470	11/13/06
	3018578	FM4470	09/14/04
	3031350	FM 4470	09/27/07
Trinity | ERD	C31410.06.10	ASTM D 5147/4798	06/03/10
	C7290.01.08	ASTM D 4601/1970	01/16/08
	C8370.08.08-R1	TAS 114-H/J & TAS 117(B)	10/05/09
	C8500SC.11.07-R1	ASTM D 6862/TAS 117(B)	08/07/09
	C10080.09.08-R4	ASTM D 5147/6163/6164 ASTM D 6222/3909	03/25/10
	C10080.09.10-R1	ASTM D 5147 & 6163	11/18/10
	C35460.05.11	ASTM D 1876	06/16/11
PRI Construction Materials Technologies	CTC-034-02-01 REV	ASTM D 6163	11/24/08

APPROVED ASSEMBLIES:

Membrane Type: SBS Modified, Self-Adhering

Deck Type 3I: Concrete Decks, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(1): One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft^2
ACFoam-III Minimum 1.5" thick	**N/A**	**N/A**

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer applied at a rate of 0.75 gal/sq and allowed to dry prior to application of insulation layer(s). All insulation shall be adhered with Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive, OMG OlyBond 500 Green Adhesive, ICP Adhesive CR-20, 3M Polyurethane Foam Insulation Adhesive CR-20 or Millennium One Step Foamable Adhesive applied in continuous ¾ inch wide beads spaced 12 inch o.c. or with hot asphalt in full coverage at a rate of 20 – 25 lb/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of TRI-BUILT SA Plybase, self-adhered.

Ply Sheet: None.

Membrane: One layer of TRI-BUILT SA Cap, self-adhered.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure: -60 psf (See General Limitation #9)

Membrane Type:	SBS Modified, Self-Adhering
Deck Type 3I:	Concrete Decks, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(2):	One or more layers of insulation adhered with approved adhesive

All General and System Limitations apply.

Primer: (Optional)	Concrete deck primed with ASTM D 41 asphalt primer at a rate of 0.75 gal/sq and allowed to dry prior to application of insulation.

One or more layers of any of the following insulations.

Base Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
ACFoam-II, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
DensDeck Prime Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the deck in Insta Stik Quik Set Insulation Adhesive, OMG OlyBond 500, OMG OlyBond 500 Green, ICP Adhesive CR-20, 3M Polyurethane Foam Insulation Adhesive CR-20, Millennium One Step Foamable Adhesive applied in ¾" ribbons spaced 12" o.c. or with hot asphalt in full coverage at a rate of 20-25 lbs/ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:	One or more layers of TRI-BUILT SA Plybase, self-adhered.
Ply Sheet: (Optional)	One ply of TRI-BUILT SA Plybase, self-adhered
Membrane:	One layer of TRI-BUILT SA Cap, self-adhered.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-105.0 psf (See General Limitation #9.)

Membrane Type: SBS Modified, Self-Adhering

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(1): All layers of insulation simultaneously fastened

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
ACFoam-II, ENRGY 3 or Multi-Max FA-3 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
DensDeck Prime Roof Board Minimum ¼" thick	**6 with 7; 1 with 2, 3;**	**1:1.33 ft²**

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.

Base Sheet: One layer of TRI-BUILT SA Plybase, self-adhered

Ply Sheet: (Optional) One ply of TRI-BUILT SA Plybase, self-adhered

Membrane: One layer of TRI-BUILT SA Cap, self-adhered.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

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

Membrane Type: SBS Modified, Self-Adhering

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(1): All layers of insulation and base sheet simultaneously attached

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft^2
ACFoam-II, ENRGY 3 or Multi-Max FA-3 Minimum 1.5" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft^2
DensDeck, DensDeck Prime Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer shall have preliminary attachment, prior to the installation of the base/anchor sheet, at a minimum 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. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: One ply of TRI-BUILT SA Nailbase, mechanically attached as detailed below.

Fastening: Base sheet shall be fastened with Dekfast PLT-H-2-7/8 plates and Dekfast DF-#14-PH3 fasteners, OMG Flat Bottom Metal Plates with OMG #14 Roofgrip fasteners, Trufast 3" Metal Insulation Plates with Trufast #14 HD Fastener spaced 8" o.c. at a 4" wide side lap and two rows staggered in the field of the sheet, 8" o.c.

Ply Sheet: (Optional) One ply of TRI-BUILT SA Plybase, self-adhered

Membrane: One layer of TRI-BUILT SA Cap, self-adhered.

Surfacing: (Optional) Any of the approved surfacing/coating options listed in Table 4.

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

Membrane Type:	SBS Modified, Self-Adhering
Deck Type 3:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(1):	Base sheet adhered to deck.

All General and System Limitations apply.

Primer:	Concrete deck primed with ASTM D41 primer applied at a rate of 0.75 gal/sq
Base Sheet:	One ply of TRI-BUILT SA Plybase, self-adhered.
Ply Sheet: (Optional)	One ply of TRI-BUILT SA Plybase, self-adhered.
Membrane:	One layer of TRI-BUILT SA Cap, self-adhered.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-97.5 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.
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.)**
10. 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