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EVALUATION REPORT

Beacon Sales Acquisition, Inc.

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Evaluation Report 1m-CTR-19-FBCER.10.19

FL30541

Date of Issuance: 10/11/2019

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been evaluated for compliance with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: TRI-BUILT Roof Underlayments

LABELING: Labeling shall be in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

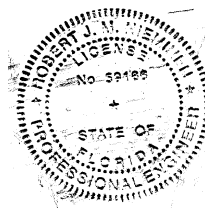
INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 8.

Prepared by:

Robert J.M. Nieminen, P.E.

Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 10/11/2019. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION
1. SCOPE:

Product Category: Roofing

Sub-Category: Underlayment

Compliance Statement: TRI-BUILT Roof Underlayments, as produced by Beacon Sales Acquisition, Inc., have demonstrated compliance with the following sections of the 6th Edition (2017) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1504.3.1	Wind Uplift	FM 4474	2011
1507.3.3	Physical properties	FRSA/TRI April 2012 (04-12)	2012
1507.2.4 / 1507.1.1, 1507.2.9.2	Physical Properties	ASTM D1970	2015
1507.10.2	Physical Properties	ASTM D4601	2012
1507.11.2	Physical Properties	ASTM D6164	2011
1507.11.2	Physical Properties	ASTM D6222	2011
TAS 110	Accelerated Weathering	ASTM D4798	2011

3. REFERENCES:

Entity	Examination	Reference	Date
NEMO	Evaluation Report	11610.09.08-R18	01/24/2018
NEMO	Cross-Reference	FBC Product Cross Listing	09/26/2019
UL, LLC. (QUA9625)	Quality Control	Service Confirmation	03/09/2017

4. PRODUCT DESCRIPTION:
4.1 Self-Adhering Underlayments:

TRI-BUILT SA Plybase is a self-adhering, glass mat reinforced, film-surfaced, SBS modified roof underlayment for use as a base-layer in multi-ply underlayment systems; meets ASTM D1970.

TRI-BUILT SA Cap is a self-adhering, polyester reinforced, granule-mineral surfaced, SBS modified roof underlayment; meets ASTM D1970, ASTM D6164, Type I, Grade G and FRSA/TRI April 2012.

4.2 Torch Applied Underlayments:

TRI-BUILT Granulated Torch is a torch-applied, polyester reinforced, granule-surfaced, APP modified roof underlayment; meets ASTM D6222, Type I, Grade G.

4.3 Asphalt Applied Underlayments:

TRI-BUILT SBS Cap is an asphalt-applied, polyester reinforced, granule-surfaced, SBS modified roof underlayment; meets ASTM D6164, Type I, Grade G.

4.4 Mechanically Attached Underlayments:

TRI-BUILT SA Nailbase is a glass mat reinforced, film-surfaced, SBS modified roof underlayment for use as a mechanically attached base-layer in multi-ply underlayment systems; meets ASTM D4601, Type II.

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 Fire Classification is not part of this Laboratory Report; refer to current Approved Roofing Materials Directory or test report from accredited testing agency for fire ratings of this product.

5.4 **TRI-BUILT Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction (Authority Having Jurisdiction) for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.5 **Allowable Roof Covers:**

TABLE 1: ROOF COVER OPTIONS							
Underlayment	Asphalt Shingles	Nail-On Tile	Foam-On Tile	Mortar-Set Tile	Metal	Wood Shakes & Shingles	Slate
TRI-BUILT SA Cap	Yes	Yes	Yes <i>See 5.5.1</i>	Yes	No	Yes	Yes
TRI-BUILT Granulated Torch	No	Yes	Yes <i>See 5.5.1</i>	Yes	No	Yes	Yes
TRI-BUILT SBS Cap	No	Yes	Yes <i>See 5.5.1</i>	Yes	No	Yes	Yes

5.5.1 “Foam-On Tile” is limited to use of the following Approved tile adhesives / underlayment combinations.

TABLE 1A: ALLOWABLE TILE ADHESIVE / UNDERLAYMENT COMBINATIONS ¹		
Adhesive	Florida Product Approval	Underlayments
Dow TileBond™	FL22525	TRI-BUILT SA Cap or TRI-BUILT SBS Cap
ICP Adhesives Polyset® AH-160	FL6332	TRI-BUILT SA Cap, TRI-BUILT Granulated Torch or TRI-BUILT SBS Cap

5.6 **Allowable Substrates:**

5.6.1 TRI-BUILT SA Plybase or TRI-BUILT SA Cap self-adhered to:

- New or existing plywood;
- Karnak 108 Asphalt Primer, Karnak 89 Sta-Tack Primer or ASTM D41 primed new or existing plywood;
- Karnak 108 Asphalt Primer, Karnak 89 Sta-Tack Primer or ASTM D41 primed structural concrete.

TRI-BUILT SBS Cap in hot asphalt to:

- Karnak 108 Asphalt Primer or ASTM D41 primed structural concrete.

TRI-BUILT Granulated Torch torch-applied to:

- Karnak 108 Asphalt Primer or ASTM D41 primed structural concrete.

5.6.2 **Bond to Mechanically Attached Base Sheet or Adhered Base Ply:**

- TRI-BUILT SA Plybase or TRI-BUILT SA Cap self-adhered to: TRI-BUILT SA Nailbase or ASTM D226, Type I or II felt.
- TRI-BUILT SA Cap self-adhered to: TRI-BUILT SA Plybase.
- TRI-BUILT SBS Cap in hot asphalt to: ASTM D226, Type I or II felt or ASTM D4601, Type II base sheet.
- TRI-BUILT Granulated Torch torch-applied to: ASTM D226, Type I or II felt or ASTM D4601, Type II base sheet.

5.6.3 **Wind Resistance for Underlayment Systems in Foam-On Tile Applications:**

FRSA/TRI April 2012 (04-12) does not address wind uplift resistance of all underlayment systems beneath foam-on or mortar-set tile systems, where the underlayment forms part of the load-path. The following wind uplift limitations apply to underlayment systems that are not addressed in FRSA/TRI April 2012 (04-12) and are used in foam-on or mortar-set tile applications. Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads, and reflects the ultimate passing pressure divided by 2 (the 2 to 1 margin of safety per FBC 1504.9 has already been applied). Refer to FRSA/TRI April 2012 (04-12), Appendix A, Table 1A or FBC 1609 for determination of design wind loads.

¹ Refer to Tile Manufacturer’s or Adhesive Manufacturer’s Florida Product Approval for Overturning Moment Resistance Performance.

- #1 **Maximum Design Pressure = -555 psf:**
 Deck: Structural concrete to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Primer: Karnak 108 Asphalt Primer, Karnak 89 Sta-Tack Primer or ASTM D41.
 Base: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.
- #2 **Maximum Design Pressure = -105.0 psf:**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Primer: (Optional) Karnak 108 Asphalt Primer, Karnak 89 Sta-Tack Primer or ASTM D41
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.
- #3 **Maximum Design Pressure = -127.5 psf:**
 Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Primer: Karnak 108 Asphalt Primer, Karnak 89 Sta-Tack Primer or ASTM D41
 Joints: Min. 4-inch wide strips of TRI-BUILT SA Plybase, self-adhered over all plywood joints.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.
- #4 **Maximum Design Pressure = -37.5 psf:**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: ASTM D226, Type II felt or TRI-BUILT SA Nailbase
 Fasteners: 12 ga., 1¼-inch long galvanized ring shank nails through 32 ga., 1 5/8-inch diameter tin caps
 Spacing: 6-inch o.c. at the 4-inch laps and 12-inch o.c. at two (2) equally spaced, staggered rows in the field of the sheet.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.
- #5 **Maximum Design Pressure = -45.0 psf*:**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT FG Base Sheet 3 SQ
 Fasteners: Simplex MAXX Cap Fasteners
 Spacing: 9-inch o.c. at the 2-inch wide side laps and 18-inch o.c. at two (2) equally spaced, staggered center rows.
 Underlayment: TRI-BUILT SBS Cap, applied in hot asphalt or TRI-BUILT Granulated Torch, torch-applied.
- #6 **Maximum Design Pressure = -52.5 psf:**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT FG Base Sheet 3 SQ
 Fasteners: Simplex MAXX Cap Fasteners
 Spacing: 9-inch o.c. at the 2-inch wide side laps and 12-inch o.c. at two (2) equally spaced, staggered center rows.
 Underlayment: TRI-BUILT SBS Cap, applied in hot asphalt or TRI-BUILT Granulated Torch, torch-applied.
- #7 **Maximum Design Pressure = -52.5 psf:**
 Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT SA Nailbase
 Fasteners: Min. 1-inch long, 12 ga. Simplex Metal Cap Nails
 Spacing: 6-inch o.c. at the min. 2-inch laps and 6-inch o.c. at four (4) equally spaced, staggered rows in the field of the sheet.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.
- #8 **Maximum Design Pressure = -60.0 psf:**
 Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT SA Nailbase
 Fasteners: 12 ga., 1¼-inch long galvanized ring shank nails through 32 ga., 1 5/8-inch diameter tin caps
 Spacing: 8-inch o.c. at the min. 2-inch laps and 8-inch o.c. at three (3) equally spaced, staggered rows in the field of the sheet.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.

#9 Maximum Design Pressure = -67.5 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT FG Base Sheet 3 SQ
 Fasteners: Cap nails: 1-inch diameter, 0.032-inch thick metal cap with 0.120-inch shank diameter, annular ring shank nails
 Spacing: 6-inch o.c. at 4-inch lap and 6-inch o.c. at five (5) equally spaced, staggered center rows in the field of the sheet.
 Underlayment: TRI-BUILT SBS Cap, applied in hot asphalt.

#10 Maximum Design Pressure = -75.0 psf:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT SA Nailbase
 Fasteners: 12 ga., 1¼-inch long galvanized ring shank nails through 32 ga., 1 5/8-inch diameter tin caps
 Spacing: 6-inch o.c. at the min. 2-inch laps and 6-inch o.c. at four (4) equally spaced, staggered rows in the field of the sheet.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.

#11 Maximum Design Pressure = -90.0 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT FG Base Sheet 3 SQ
 Fasteners: Simplex MAXX Cap Fasteners
 Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at two (2) equally spaced, staggered center rows.
 Underlayment: TRI-BUILT SBS Cap, applied in hot asphalt or TRI-BUILT Granulated Torch, torch-applied.

#12 Maximum Design Pressure = -105.0 psf:

Deck: Min. 15/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT FG Base Sheet 3 SQ
 Fasteners: Simplex MAXX Cap Fasteners
 Spacing: 6-inch o.c. at the 2-inch wide side laps and 6-inch o.c. at three (3) equally spaced, staggered center rows.
 Underlayment: TRI-BUILT SBS Cap, applied in hot asphalt or TRI-BUILT Granulated Torch, torch-applied.

#13 Maximum Design Pressure = -105.0 psf:

Deck: Min. 19/32-inch plywood to meet project requirements to satisfaction of Authority Having Jurisdiction.
 Base Sheet: TRI-BUILT SA Nailbase
 Fasteners: 12 ga., 1¼-inch long galvanized ring shank nails through 32 ga., 1 5/8-inch diameter tin caps
 Spacing: 4-inch o.c. at the min. 2-inch laps and 4-inch o.c. at four (4) equally spaced, staggered rows in the field of the sheet.
 Base Ply: (Optional) TRI-BUILT SA Plybase, self-adhered.
 Underlayment: TRI-BUILT SA Cap, self-adhered.

5.6.3.1 All other direct-deck, adhered TRI-BUILT underlayment systems beneath foam-on or mortar-set tile systems carry a Maximum Design Pressure of -45 psf.

5.6.3.2 For mechanically attached Base Sheet, the maximum design pressure for the selected assembly shall meet or exceed that required under FRSA/TRI April 2012 (04-12), Appendix A, Table 1A. Alternatively, the maximum design pressure for the selected assembly shall meet or exceed the Zone 1 design pressure determined in accordance with FBC 1609. In this case, Zones 2 and 3 shall employ an attachment density designed by a qualified design professional to resist the elevated pressure criteria. Commonly used methods are ANSI/SPRI WD1, FM Loss Prevention Data Sheet 1-29 and Roofing Application Standard RAS 117. Assemblies marked with an asterisk* carry the limitations set forth in Section 2.2.10.1 of FM Loss Prevention Data Sheet 1-29 (January 2016) for Zone 2/3 enhancements.

5.7 Exposure Limitations:

TRI-BUILT SA Cap, TRI-BUILT Granulated Torch or TRI-BUILT SBS Cap do not have an exposure limitation, unless the prepared roof covering is to be adhesive-set tile, in which case the maximum exposure is 180 days.

TRI-BUILT SA Nailbase or TRI-BUILT SA Plybase, for use as a base-layer in a multi-ply underlayment system, shall not be left exposed for longer than 30-days after installation, prior to placement of subsequent underlayment layer.

5.8 **Tile Slippage Limitations (per FRSA/TRI April 2012 (04-12)):**

When loading roof tiles on the underlayment in direct-deck tile assemblies, the maximum roof slope shall be as follows. These slope limitations can only be exceeded by using battens during loading of the roof tiles.

TABLE 2: TILE SLIPPAGE LIMITATIONS FOR TILE INSTALLATIONS			
Underlayment	Tile Profile	Staging Method	Maximum Slope
TRI-BUILT SBS Cap	All	Max. 10-tile stack	4:12
TRI-BUILT Granulated Torch	All	Max. 10-tile stack	6:12
TRI-BUILT SA Cap	Flat	Max. 6-tile stack (4 over 2)	6:12
	Lugged	Max. 6-tile stack (4 over 2)	5:12

6. INSTALLATION:

- 6.1 **TRI-BUILT Roof Underlayments** shall be installed in accordance with **Beacon Sales Acquisition, Inc.** published installation requirements subject to the Limitations set forth in Section 5 herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application, and primed the substrate (if applicable).

6.3 TRI-BUILT SA Nailbase or TRI-BUILT SA Plybase:

TRI-BUILT SA Nailbase and **TRI-BUILT SA Plybase** are limited to use as a base or mid-layer in multi-ply underlayment systems beneath **TRI-BUILT SA Cap**.

Install the base-layer underlayment to the substrates detailed in **Section 5.6** in accordance with **Beacon Sales Acquisition, Inc.** published installation instructions, followed by the final underlayment layer in accordance with the instructions outlined below for the particular top-layer underlayment.

Roof cover limitations are those are those associated with the top-layer underlayment, as set forth in **Table 1**.

6.4 TRI-BUILT SA Cap:

Shall be installed in compliance with current **Beacon Sales Acquisition, Inc.** published installation requirements and **FBC 1507** for the type of prepared roof covering to be installed.

TRI-BUILT SA Cap shall be fully self-adhered to the substrates noted in **Section 5.6**. Side laps shall be minimum 4-inch and end-laps minimum 6-inch wide, pressed firmly with a seam-roller, and offset end-laps minimum 2 feet from course to course. Consult **Beacon Sales Acquisition, Inc.** instructions for the 6-inch end laps, T-seam detailing and back-nailing requirements.

Tile Applications:

Reference is made to **FRSA/TRI April 2012 (04-12)** Installation Manual and **Table 1** herein.

For mechanically fastened tile roofing over 2-ply system, consisting of Base Sheet and self-adhering top sheet(s), Base Sheet fastening shall be not less than **FRSA/TRI April 2012 (04-12)**, **Table 1**.

For adhesive-set tile applications, refer to **Section 5.6.3** herein.

6.5 TRI-BUILT Granulated Torch:

TRI-BUILT Granulated Torch shall be installed in compliance with current **Beacon Sales Acquisition, Inc.** published installation requirements.

TRI-BUILT Granulated Torch shall be fully torch applied to the substrates noted in Section 5.6. Side (horizontal) laps shall be minimum 3-inch and end (vertical) laps minimum 6-inch wide, and offset end-laps minimum 3 feet from course to course. Side and end-laps shall be fully heat-welded and inspected to ensure minimum 3/8-inch flow of modified compound beyond the lap edge. Consult **Beacon Sales Acquisition, Inc.** instructions regarding back-nailing requirements.

Tile Applications:

For use in tile applications, **TRI-BUILT Granulated Torch** is for use as an alternate to the Heat Applied “Cap Sheet” in the “Two Ply System” from **FRSA/TRI April 2012 (04-12)** beneath mechanically fastened or adhered tile roof systems (Base Sheet Limited per 5.6.2).

For mechanically fastened tile roofing over 2-ply system, consisting of Base Sheet and Heat Applied “Cap Sheet”, Base Sheet fastening shall be not less than **FRSA/TRI April 2012 (04-12), Table 1**.

For adhesive-set tile applications, refer to **Section 5.6.3** herein.

6.6 TRI-BUILT SBS Cap:

TRI-BUILT SBS Cap shall be installed in compliance with current **Beacon Sales Acquisition, Inc.** published installation requirements.

TRI-BUILT SBS Cap shall be fully asphalt-applied to the substrates noted in Section 5.6. Side (horizontal) laps shall be minimum 3-inch and end (vertical) laps minimum 6-inch wide, and offset end-laps minimum 3 feet from course to course. Side and end-laps shall be fully adhered in a complete mopping of hot asphalt with asphalt extending approximately 3/8-inch beyond the lap edge. Consult **Beacon Sales Acquisition, Inc.** instructions regarding back-nailing requirements.

Tile Applications:

For use in tile applications, **TRI-BUILT SBS Cap** is for use as an alternate to “Mineral Surface Roll Roofing” (ASTM D6380, Class M) in the “Single Ply System” from **FRSA/TRI April 2012 (04-12)** beneath mechanically fastened tile roof systems or the Hot Asphalt applied “Cap Sheet” in the “Two Ply System” from **FRSA/TRI April 2012 (04-12)** beneath mechanically fastened or adhered tile roof systems.

For mechanically fastened tile roofing over 2-ply system, consisting of Base Sheet and Hot Asphalt applied “Cap Sheet”, Base Sheet fastening shall be not less than **FRSA/TRI April 2012 (04-12), Table 1**.

For adhesive-set tile applications, refer to **Section 5.6.3** herein.

6.7 Tile Staging (TRI-BUILT SA Cap, TRI-BUILT Granulated Torch or TRI-BUILT SBS Cap):

Tile shall be loaded and staged in a manner that prevents tile slippage and/or damage to the underlayment. Refer to **Table 2** herein, and **Beacon Sales Acquisition, Inc.** published requirements for tile staging.

Battens and/or Counter-battens, as required by the tile manufacturer and **FRSA/TRI April 2012 (04-12)**, must be used on all roof slopes greater than 7:12. Precautions should be taken as needed, such as the use of battens or nail-boards, to prevent tile sliding and/or damage to the underlayment during the loading process.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction (Authority Having Jurisdiction) in order to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Contact the noted QA agency for information on product locations covered for **F.A.C. 61G20-3** QA requirements. The following plants have qualified products under their respective physical properties specifications.

Plant	Specification	Product(s)
Little Rock, AR	ASTM D1970	TRI-BUILT SA Plybase
	ASTM D4601	TRI-BUILT SA Nailbase
	ASTM D6164	TRI-BUILT SBS Cap
	ASTM D1970, ASTM D6164 & FRSA/TRI April 2012	TRI-BUILT SA Cap
	ASTM D6222	TRI-BUILT Granulated Torch

9. QUALITY ASSURANCE ENTITY:

UL, LLC. – QUA9625; (414) 248-6409; karen.buchmann@ul.com

- END OF EVALUATION REPORT -