



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)

www.miamidade.gov/economy

Tamko Building Products, Inc.
220 West 4th Street
Joplin, MO 64801

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: TAMKO Modified Bitumen Roof System 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 and renews NOA No.12-0716.17 and consists of pages 1 through 14.
The submitted documentation was reviewed by Gaspar J Rodriguez.



NOA No.: 14-0827.19
Expiration Date: 10/23/21
Approval Date: 07/28/16
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Concrete
Maximum Design Pressure: -622.5 PSF

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Awaplan™	39 3/8" wide	ASTM D6164 Type I	Polyester reinforced SBS modified membrane surfaced with granules. Applied in hot asphalt or cold adhesive.
Glass-Base™	39 3/8" wide	ASTM D4601 Type II	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Tam-Cap™	39 3/8" wide	ASTM D3909	Asphalt impregnated and coated felt surfaced with mineral granules used as the top ply in conventional built-up roof membranes.
Tam-Ply IV™	39 3/8" wide	ASTM D2178 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
Type 43 Base Sheet	36" wide	ASTM D2626	An organic felt reinforced asphalt base sheet. Applied in hot asphalt or mechanically fastened.
Versa-Base™	39 3/8" wide	ASTM D6163 Type I	Asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Tam-Pro 846 Fibered Emulsion Coating	5 gallon	ASTM D1227 Type II	Protective coating.
Tam-Pro 813 Asphalt Primer	5 gallon	ASTM D41	Asphalt based primer



APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam II	Polyisocyanurate insulation	Atlas Roofing Products
ACFoam Composite	Polyisocyanurate insulation with perlite facer	Atlas Roofing Products
DensDeck	Gypsum insulation board	Georgia-Pacific Gypsum LLC
ENRGY 3	Polyisocyanurate insulation	Johns Manville Corp.
ENRGY 3 25 PSI	Polyisocyanurate insulation	Johns Manville Corp.
Fesco Board	Expanded perlite and fiber insulation	Johns Manville Corp.
Retro-Fit Board	Expanded perlite and fiber insulation	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard
H-Shield	Polyisocyanurate insulation	Hunter Panels LLC
H-Shield-WF	Wood fiber/Polyisocyanurate Composite Insulation	Hunter Panels LLC

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	#14 Roofgrip	Insulation fastener for wood, steel and concrete decks.		OMG Inc.
2.	#15 Roofgrip	Insulation fastener for wood, steel and concrete decks.	3" round	OMG Inc.
3.	OMG Heavy Duty	Insulation fastener		OMG Inc.
4.	AccuTrac Plate	Galvalume AZ50 steel plate	3" square	OMG Inc.
5.	3" Round Metal Plate	Galvalume AZ50 steel plate	3" round	OMG Inc.
6.	#14 Dekfast	Insulation fastener for wood, steel and concrete decks		SFS Intec Inc.
7.	#15 Dekfast	Insulation fastener for wood, steel and concrete decks		SFS Intec Inc.
8.	Dekfast 3" Round Steel Insulation Plate	Galvalume AZ50 steel plate	3" round	SFS Intec Inc.
9.	Tru-Fast #14 HD	Insulation fastener for wood, steel and concrete decks		Altenloh, Brinck & Co. U.S., Inc.
10.	Tru-Fast 3" Metal Insulation Plates	3" round galvalume AZ55 steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc..



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Test Identifier</u>	<u>Date</u>
Underwriters Laboratories, Inc.	UL 790	R3225	10/03/12
Factory Mutual Research Corp.	Class 4470	J.I. 4D0A7.AM	10/21/98
	Class 4470	J.I. 0Z4A3.AM	08/27/97
	Class 4470	J.I.1D4A7.AM	10/20/97
	Class 4470	J.I. 3B5A9.AM	08/27/98
	Class 4470	3027787	08/14/06
	Class 4470	3027789	08/14/06
	Class 4470	3027790	08/14/06
	Class 4470	3010612	04/16/01
	797	797-09988-267	12/11/14
Dynatech Engineering Corp.	Class 4470	3027791	08/14/06
	TAS 114	4440.05.95-2	05/01/95
Exterior Research & Design, LLC	TAS 114	4440.05.95-1	05/01/95
	TAS 114	4444.06.98-1	06/15/98
Trinity ERD	TAS 114	4441.04.99-1	04/09/99
	TAS 117	C8500SC.00.07	11/30/07
PRI Construction Materials Technologies LLC	TAS 117 & TAS 114	C12410.08.09	08/14/09
	ASTM D 4601 Type II	SC10960.02.16-1	02/11/16
	ASTM D 2178 Type IV	SC10960.02.16-2	02/11/16
	ASTM D 3909	SC10960.02.16-3	02/11/16
	ASTM D 6163	TAP-254-02-02	01/24/12
Technologies LLC	ASTM D 4601	TAP-255-02-02	11/04/11
	ASTM D 2178	TAP-256-02-02	11/04/11
	ASTM D 6164	TAP-298-02-01	11/10/15
	ASTM D 3909	TAP-257-02-03	11/18/11
	ASTM D 2626	TAP-257-02-01	12/12/11



APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A: One or more layers of insulation adhered with approved asphalt.

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, ENRGY 3 25 PSI, H-Shield Minimum 1.5” thick	N/A	N/A
Top or Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
DensDeck Minimum 1/4” thick	N/A	N/A
Structodek High Density Fiberboard, Fesco Board, Retro-Fit Minimum 1/2” thick	N/A	N/A
ACFoam Composite, H-Shield-WF Minimum 1.5” thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. 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. 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: (Optional) One ply of Glass-Base or Versa-Base, adhered to the substrate with 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 Tam-Ply IV, Glass-Base or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
2. Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design

Pressure:

- 222.5 psf. (for minimum 1.5” thick Approved polyisocyanurate followed by minimum ¾” thick Approved perlite applied in hot asphalt.) (See General Limitation #9)
- 230 psf. (for minimum 1.5” thick Approved polyisocyanurate followed by minimum ¼” thick DensDeck or minimum ½” Structodek High Density Fiberboard Roof Insulation applied in hot asphalt.) (See General Limitation #9)
- 265 psf. (for minimum 1.5” thick Approved polyisocyanurate followed by minimum ½” thick Structodek High Density Fiberboard Roof Insulation applied in hot asphalt.) (See General Limitation #9)
- 200 psf. (for minimum 1.5” thick ACFoam II Composite or H-Shield-WF applied in hot asphalt.) (See General Limitation #9)
- 230 psf. (for minimum ¼” thick DensDeck applied in hot asphalt with no underlying insulation.) (See General Limitation #9)
- 80 psf. (minimum ½” thick any combination of approved isocyanurate, perlite, or wood fiber applied in hot asphalt.) (See General Limitation #9)
- 210 psf. (for minimum ½” thick Retro-Fit applied in hot asphalt with no underlying insulation.) (See General Limitation #9)
- 240 psf. (for minimum ½” thick Retrofit applied in hot asphalt with no underlying insulation. **Requires one ply of Versa-Base.**) (See General Limitation #9)
- 330 psf. (for minimum ½” thick Structodek High Density Fiberboard Roof Insulation applied in hot asphalt with no underlying insulation.) (See General Limitation #9)
- 382.5 psf. (for minimum ½” thick Structodek High Density Fiberboard Roof Insulation applied in hot asphalt with no underlying insulation. **Requires one ply of Versa-Base.**) (See General Limitation #9)

Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(1): Base layer of insulation mechanically fastened; top layer adhered with approved asphalt.

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, H-Shield Minimum 1.2" thick	1, 2, 5, 6, 7, 8, 9, 10	1:2 ft.²
ACFoam II Minimum 1.4" thick	1, 2, 5, 6, 7, 8, 9, 10	1:4 ft.²
ACFoam Composite Minimum 1.5" thick	1, 2, 5, 6, 7, 8, 9, 10	1:4 ft.²
ENRGY 3, ENRGY 3 25 PSI Minimum 1.4" thick	1, 2, 5, 6, 7, 8, 9, 10	1:2 ft.²
Fesco Board, Structodek High Density Fiberboard Minimum 1" thick	1, 2, 5, 6, 7, 8, 9, 10	1:2 ft.²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

(Optional) Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Fesco Board, Retrofit Minimum ½" thick	N/A	N/A
ACFoam Composite, H-Shield-WF Minimum 1.5" thick	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One ply of Glass-Base or Versa-Base adhered to the substrate with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.



- Ply Sheet:** One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.
- Membrane:** Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.
- Surfacing:** Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
 2. Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.
- Maximum Design Pressure:** -45 psf. (See General Limitation #9.)



Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(2): Base layer of insulation mechanically fastened; top layer adhered with approved asphalt.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam II, ENRGY 3, ENRGY 3 25 PSI, H-Shield Minimum 1.5" thick	1 or 6	1:1.33 ft.²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
Structodek High Density Fiberboard Minimum ½" thick	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One ply of Glass-Base or Versa-Base adhered to the substrate with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
2. Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design

Pressure: -75 psf (See General Limitation #7.)



Membrane Type: SBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C: All layers of insulation 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, H-Shield, ENRGY 3, ENRGY 3 25 PSI Minimum 1.5" thick	N/A	N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Fesco Board, Structodek High Density Fiberboard Minimum 1" thick	1, 2, 5, 6, 7, 8, 9, 10	1:2 ft. ²

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: (Optional) One ply of Glass-Base or Versa-Base adhered to the substrate with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

- 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
- Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design Pressure: -45 psf. (See General Limitation #9.)



Membrane Type: SBS
Deck Type 3I: Concrete Decks, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type D: Base sheet attached over insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam II, H-Shield, ENRGY 3, ENRGY 3 25 PSI Minimum 1.5” thick	N/A	N/A
Fesco Board Minimum ¾” thick	N/A	N/A
Structodek High Density Fiberboard Minimum ½” 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 Tamko Glass-Base fastened to the deck as described in Option #1 or #2, below.
Fastening: *(Option #1)* Attach anchor sheet using #14 or #15 Dekfast Fasteners with 3” Plates spaced 12” o.c. in a 4” lap and 12” o.c. in two staggered rows in the center of the sheet.
Maximum Design Pressure –60 psf., (See General Limitation #7.)
(Option #2) Attach anchor sheet using, or OMG #14 or #15 Roofgrip Fasteners and 3” Plates spaced 12” o.c. in a 4” lap and 12” o.c. in two staggered rows in the center of the sheet.
Maximum Design Pressure –75 psf., (See General Limitation #7.)

Ply Sheet: (Optional) One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

- 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
- Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design Pressure: *See Base Sheet Fastening Options.*



Membrane Type: SBS
Deck Type 3: Concrete Decks, Non-insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type E: Base sheet mechanically attached.

All General and System Limitations apply.

Base Sheet: One ply of Tamko Glass-Base fastened to the deck as described in Option #1 or #2, below.
Fastening: *(Option #1)* Attach anchor sheet using #14 or #15 Dekfast Fasteners with 3” Plates spaced 12” o.c. in a 4” lap and 12” o.c. in two staggered rows in the center of the sheet.
Maximum Design Pressure –60 psf., (See General Limitation #7.)
(Option #2) Attach anchor sheet using, or OMG #14 or #15 Roofgrip Fasteners and 3” Plates spaced 12” o.c. in a 4” lap and 12” o.c. in two staggered rows in the center of the sheet.
Maximum Design Pressure –75 psf., (See General Limitation #7.)

Ply Sheet: (Optional) One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.
1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
2. Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design Pressure: *See Base Sheet Fastening Options.*



Membrane Type: SBS
Deck Type 3: Concrete Decks, Non-Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type F: Membrane adhered with approved asphalt.

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet.

Base Sheet: (Optional) One ply of Glass-Base or Versa-Base adhered to the substrate with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of Glass Base, Tam-Ply IV or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range, at a rate of 20-40 lbs./sq.

Membrane: Awaplan adhered with a full mopping of approved asphalt applied at 400° F at the point of contact, at a rate of 20-40 lbs./sq.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced membranes. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping asphalt at an application rate of 60 lb./sq..
2. Henry 520 or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846 Fibered Emulsion at 3 gal./sq.

Maximum Design Pressure: -622.5 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 Engineer, 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.)**
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



NOA No.: 14-0827.19
Expiration Date: 10/23/21
Approval Date: 07/28/16
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