



BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
 140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

TAMKO Building Products, Inc.

P.O. Box 1404
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 by the BCCO and accepted by the Building Code and Product Review Committee 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Tamko Underlayments

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

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

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

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

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

This NOA revises NOA No. 07-1130.01 and consists of pages 1 through 5.
 The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 08-1008.04
Expiration Date: 07/05/12
Approval Date: 02/25/09
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ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
TW Metal and Tile Underlayment <i>(Manufactured in Joplin, MO)</i>	75 mils thickness 39- ³ / ₈ " x 30.5' rolls 39- ³ / ₈ " x 61' rolls 4" x 66' rolls 6" x 66' rolls 9" x 66' rolls	TAS 103 ASTM D 1970	Flexible, self-adhering rubberized asphalt sheet material with a polymer surface for use as an underlayment in sloped roof assemblies. May be used as a secondary water barrier for full-roof coverage or, when cut into appropriate width strips, for taping sheathing joints.
Moisture Guard Plus <i>(Manufactured in Joplin, MO)</i>	60 mils thickness 39- ³ / ₈ " x 30.5' rolls 39- ³ / ₈ " x 45' rolls 39- ³ / ₈ " x 61' rolls 4" x 66' rolls 6" x 66' rolls 9" x 66' rolls	ASTM D 1970	Flexible, self-adhering rubberized asphalt sheet material with a granular surface for use as an underlayment in sloped roof assemblies. May be used as a secondary water barrier for full-roof coverage or, when cut into appropriate width strips, for taping sheathing joints.
TW Underlayment <i>(Manufactured in Columbus, KS)</i>	40 mils thickness 39- ³ / ₈ " x 61' rolls 4" x 66' rolls 6" x 66' rolls 9" x 66' rolls	ASTM D 1970	Flexible, self-adhering rubberized asphalt sheet material with a polymer surface for use as an underlayment in sloped roof assemblies. May be used as a secondary water barrier for full-roof coverage or, when cut into appropriate width strips, for taping sheathing joints.
Awaflex <i>(Manufactured in Joplin, MO)</i>	125 mils thickness 35.9' x 36" rolls	TAS 104	SBS modified cap sheet with a non-woven polyester mat saturated with asphalt, coated on both sides with SBS rubber modified asphalt and surfaced with ceramic granules. Applied in hot asphalt.
Awaplan 170™ <i>(Manufactured in Joplin, MO)</i>	145 mils thickness 33' 11" x 39 ³ / ₈ " rolls	TAS 104	A polyester reinforced SBS modified bitumen membrane surfaced with granules. Applied in hot asphalt.
Awaplan Premium™ <i>(Manufactured in Joplin, MO)</i>	150 mils thickness 33' 11" x 39 ³ / ₈ " rolls	TAS 104	A polyester reinforced SBS modified bitumen membrane surfaced with granules. Applied in hot asphalt.
Tamko SA Base <i>(Manufactured in Joplin, MO)</i>	60 mils thickness 65' 10" x 39 ³ / ₈ " rolls	ASTM D 1970	A fiberglass-reinforced self-adhering SBS modified bitumen membrane with a polymer film on the surface and a removable treated split release film on the adhesive side. Shall only be mechanically fastened to wood deck. Direct adhesion to wood deck not permitted in the HVHZ. Do Not Remove Release Film!
Tamko SA Cap <i>(Manufactured in Joplin, MO)</i>	140 mils thickness 33' 6 1/4" x 39 ³ / ₈ " rolls	ASTM D 6164	A dual-coated SBS-modified cap sheet with a nonwoven polyester mat surfaced with ceramic granules and a split removable release film on the adhesive side.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Exterior Research & Design, LLC	4448.12.01-1	TAS 103	12/19/2001
	4448.05.02-1	TAS 103	05/29/2002
Trinity ERD	T11090.09.08	TAS 117(B)/ TAS 114(C)	09/18/08
PRI Asphalt Technologies, Inc.	TAP-058-02-01	TAS 103	04/30/02
	TAP-058-02-02	TAS 103	05/23/02
	TAP-191-02-01	ASTM D 1970	11/16/07
	TAP-192-02-01	ASTM D 1970	11/13/07
	TAP-193-02-01	ASTM D 1970	11/16/07
	TAP-207-02-01REV	TAS 104/ ASTM D 4798	12/10/08
	TAP-185-02-01REV	ASTM D 6164	11/06/08
	TAP-196-02-01	ASTM D 1970	01/09/08

APPROVED ASSEMBLIES:

- Deck Type 1:** Wood, Non-insulated
- Deck Description:** 19/32" or greater plywood or wood plank
- System E(1):** Anchor sheet mechanically fastened to deck, membrane adhered.
- Base Sheet:** One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" side lap and a 6" end lap mechanically fastened to deck with approved annular ringshank nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.
- Membrane:** One or more plies of **TW Metal and Tile Underlayment** with a minimum 4" side lap and 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied. Vertical strapping of the roof with TW Metal and Tile Underlayment is acceptable.
- When used in Tile roof systems the capsheet shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed.
- Surfacing:** Approved Mechanically Fastened Tile or Metal Roofing Assembly or Any Approved Roofing Assemblies where an ASTM D 1970 underlayment is allowed.
- Deck Type 1:** Wood, Non-insulated
- Deck Description:** 19/32" or greater plywood or wood plank
- System E(2):** Anchor sheet mechanically fastened to deck, membrane adhered.
- Base Sheet:** One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" side lap and a 6" end lap mechanically fastened to deck with approved annular ringshank nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.
- Membrane:** One or more plies of **Moisture Guard Plus** with a minimum 3.5" side lap and 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied. Vertical strapping of the roof with Moisture Guard Plus is acceptable.
- Surfacing:** Any Approved Roofing Assemblies where an ASTM D 1970 underlayment is allowed.



Deck Type 1: Wood, Non-insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(3): Anchor sheet mechanically fastened to deck, membrane adhered.
Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" side lap and a 6" end lap mechanically fastened to deck with approved annular ringshank nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.
Membrane: One or more plies of **TW Underlayment** with a minimum 4" side lap and 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied. Vertical strapping of the roof with TW Underlayment is acceptable.
Surfacing: Any Approved Roofing Assemblies where an ASTM D 1970 underlayment is allowed.

Deck Type 1: Wood, Non-insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(4): Anchor sheet mechanically fastened to deck, membrane adhered.
Base Sheet: One or more plies of ASTM D 226 Type II or ASTM D 2626 with a minimum 4" side lap and a 6" end lap mechanically fastened to deck with approved annular ringshank nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll.
Membrane: One or more plies of **Awaflex, Awaplan 170 or Awaplan Premium** applied at a right angle (90⁰) to the slope of the deck adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Vertical strapping of the roof with Awaflex, Awaplan 170 or Awaplan Premium underlayments is acceptable.
When used in Tile roof systems the capsheet shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed.
Surfacing: Approved Mechanically Fastened or Adhered Tile or Metal Roofing Assembly or Any Approved Roofing Assemblies where an TAS 104 underlayment is allowed.

Deck Type 1: Wood, Non-insulated
Deck Description: ¹⁹/₃₂" or greater plywood or wood plank
System E(5): Anchor sheet mechanically fastened to deck, membrane adhered.
Base Sheet: One or more plies of **Tamko SA Base** with a minimum 4" side lap and a 6" end lap mechanically fastened to deck with approved annular ringshank nails and tin caps 6" o.c. at the laps and two staggered rows 12" o.c. the field of the roll. **Shall only be mechanically fastened to wood deck. Direct adhesion to wood deck not permitted in the HVHZ. Do Not Remove Release Film!**
Membrane: One or more plies of **Tamko SA Cap** with a minimum 4" side lap and 6" end lap. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact with base sheet. Remove the release liner as the membrane is applied. Vertical strapping of the roof with Tamko SA Cap underlayment is acceptable.
When used in Tile roof systems the capsheet shall be back nailed to deck with approved annular ring shank nails and tin caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed
Surfacing: Approved Mechanically Fastened Tile or Metal Roofing Assembly or Any Approved Roofing Assemblies where an ASTM D 6164 membrane is allowed.



GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code. Tamko Underlayments shall be installed in strict compliance with applicable Building Codes.
3. All Tamko Underlayments shall be applied to a smooth, clean and dry surface with deck free of irregularities. Deck shall be fastened in strict compliance with applicable Building Codes.
4. All Tamko Underlayments shall not be applied over an existing roof membrane as a recover system but may be applied over an approved roofing Base/Anchor sheet underlayment.
5. TW Metal and Tile Underlayment, Moisture Guard Plus, TW Underlayment, Tamko SA Base & Tamko SA CAP shall not be left exposed as a temporary roof for longer than 30 days of application.
6. Awaflex, Awaplan 170 and Awaplan Premium shall not be left exposed as a temporary roof for longer than 180 days of application.
7. The standard maximum roof pitch for Awaflex, Awaplan 170 and Awaplan Premium shall be 6:12 for flat tile installation and 6:12 profiled tiles with lugs.
8. The standard maximum roof pitch for TW Metal and Tile Underlayment and Tamko SA CAP shall be 4:12 for flat tile installation and 4:12 profiled tiles with lugs.
9. Refer to Prepared Roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products.
10. Tile storage shall be on a battened roof deck when the underlayment slope limit (See #7 & #8 above) is exceeded. Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment.
11. The Tamko Underlayments may be used with any approved roof covering Notice of Acceptance listing the Tamko Underlayment as a component part of an assembly in the Notice of Acceptance. If Tamko Underlayments are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.
12. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels. Sweep the deck thoroughly to remove any dust and debris prior to application.
13. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions. For ridge applications, center the membrane and roll from the center outward in both directions.
14. For the self adhered membranes roll or broom the entire membrane surface so as to have 100% contact with the base sheet, giving special attention to overlap areas.
15. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
16. All protrusions or drains shall be initially taped with a 6" piece of approved Tamko Underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of the same Tamko Underlayment shall be applied over the taped underlayment.
17. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY
APPROVED

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY
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NOA No.: 08-1008.04
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