

#### Material Requirements

TAMKO BASE-N-PLY® Fiberglass Sheet	1 ply
TAMKO AWAFLX®	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.

**Slope:** Positive drainage up to 3 in. per linear ft. For slopes above 3/4 in. per linear ft., fastening of the AWAFLX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Insulation:** The insulation should be installed according to the manufacturer's specification in the thickness required. The insulation should conform to TAMKO requirements. Polyisocyanurate and expanded polystyrene must have an overlay of a minimum 1/2 in. fiberboard, perlite, or fiberglass roof insulation.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, **Type III for slopes up to 1/4 in.** and **Type IV for slopes up to 3 in.**

**Base Ply:** Starting at the low point of the roof, install 1 layer of BASE-N-PLY beginning with a 1/2 m width, then a full 1 m width, side lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Solid mop to the insulation with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft.

**AWAFLX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLX should be solidly adhered to the base ply (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt

should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

#### U.L. Requirements:

Contact TAMKO for information on U.L. systems requirements.

**Caution:** A product(s) in this specification contains crystalline silica and formaldehyde. Crystalline silica and formaldehyde have been classified as "known" human carcinogens by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. A product(s) in this specification also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a "probable human carcinogen". Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of the product(s) in this specification may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of the product(s) in this specification. Take precautions to prevent breathing and contact with skin.

Application of product(s) in this specification using "hot mopped" applications may expose workers and others in the work area to oxidized asphalt and its emissions. The International Agency for Research on Cancer has classified occupational exposures to oxidized asphalt and its emissions during roofing as a "probable human carcinogen." During installation and removal of the product(s) in this specification, including "hot mopped" application, workers must take precautions to assure adequate ventilation and use effective personal protective equipment to prevent exposures to dusts, fumes, vapors and mists. It is the responsibility of the contractor



# SPECIFICATION SUBMITTAL

## 1001 AWAFLEX

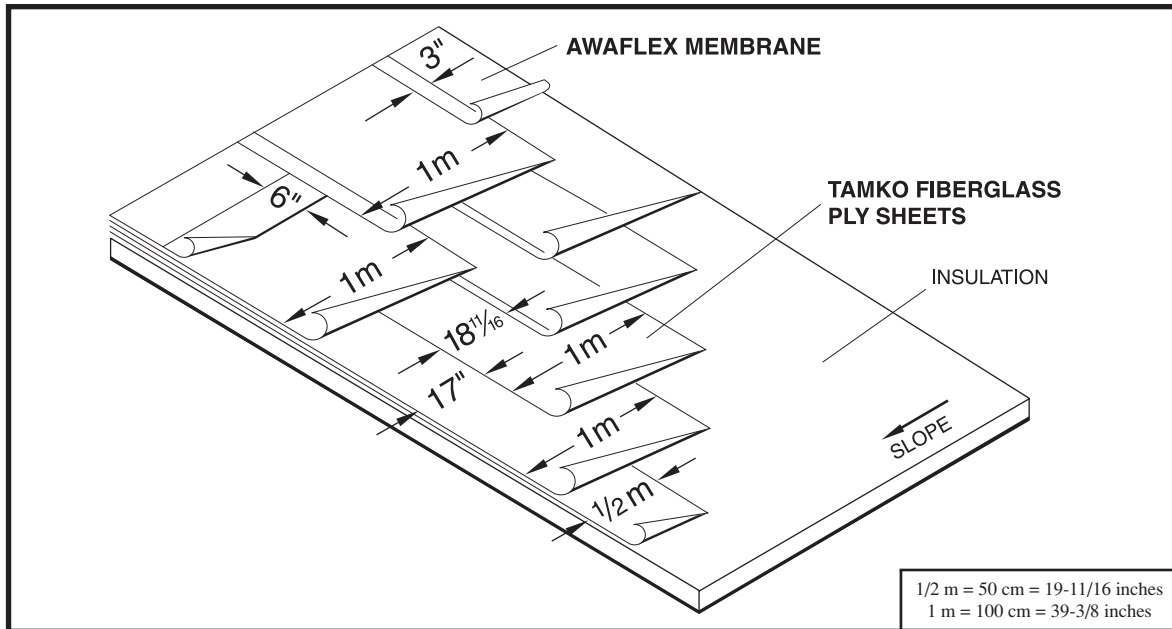
### INSULATED DECKS

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and workers to protect themselves and others in the work area from exposure to oxidized asphalt and its emissions when applying the product(s) in this specification.

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For complete information on TAMKO's recommendations and requirements, consult TAMKO's web site at [www.tamko.com](http://www.tamko.com)  
TAMKO Building Products, Inc., P. O. Box 1404, Joplin, MO 64802 • 1-800-641-4691 • [www.tamko.com](http://www.tamko.com)  
TAMKO®, Base-N-Ply® and AwaFlex® are registered trademarks of TAMKO Building Products, Inc.



#### Material Requirements

TAMKO TAM-GLASS PREMIUM® or TAM-PLY IV® Fiberglass Ply Sheet	2 plies
TAMKO AWAFLEX® (Granule Surfaced)	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 69 lbs.

**Slope:** Positive drainage up to 3 in. per linear ft. **For slopes above 3/4 in. per linear ft.,** fastening of the AWAFLEX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Insulation:** The insulation should be installed according to the manufacturer's specification in the thickness required. The insulation should conform to TAMKO requirements. Polyisocyanurate and expanded polystyrene must have an overlay of a minimum 1/2 in. fiberboard, perlite, or fiberglass roof insulation.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, **Type III for slopes up to 1/4 in.** and **Type IV for slopes up to 3 in.**

**Fiberglass Ply Sheet 2 Ply Installation:** Over the insulation, install 2 plies of TAM-GLASS PREMIUM or TAM-PLY IV in specification asphalt. Starting from the low point of the roof, apply a 1/2 m width, then a full 1 m width. Follow with full 1 m widths, shingle fashion, lapping each ply 20-11/16 in. in such a manner so that at least 2 plies cover the insulation at any one point. Approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. should be used to embed each ply.

**AWAFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLEX should be solidly adhered to the ply sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

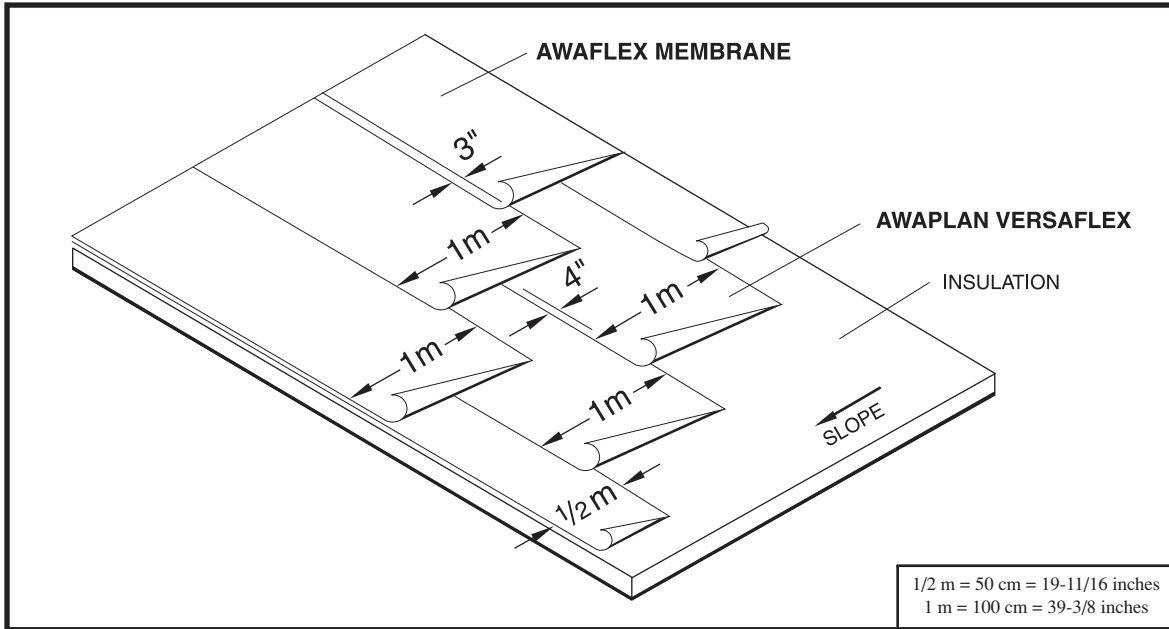
#### U.L. Requirements:

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**Material Requirements**

TAMKO AWAPLAN VERSAFLEX	1 ply
TAMKO AWAFLEX®	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.

**Slope:** Positive drainage up to 3 in. per linear ft. For slopes above 3/4 in. per linear ft., fastening of the AWAFLEX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Insulation:** The insulation should be installed according to the manufacturer’s specification in the thickness required. The insulation should conform to TAMKO requirements. Polyisocyanurate and expanded polystyrene must have an overlay of a minimum 1/2 in. fiberboard, perlite, or fiberglass roof insulation.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, **Type III for slopes up to 1/4 in.** and **Type IV for slopes up to 3 in.**

**AWAPLAN VERSAFLEX:** Over the insulation, install 1 ply of AWAPLAN VERSAFLEX in specification asphalt. Starting at the low point of the roof, apply the AWAPLAN VERSAFLEX beginning with a 1/2 m width, then a full 1 m width, side lapped 4 in. and end lapped 6 in. Apply at a right angle to the slope of the roof. The AWAPLAN VERSAFLEX should be solidly adhered to the insulation (pressed into the hot asphalt) with approximately 23 lb. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**AWAFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLEX should be solidly adhered to the base ply (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

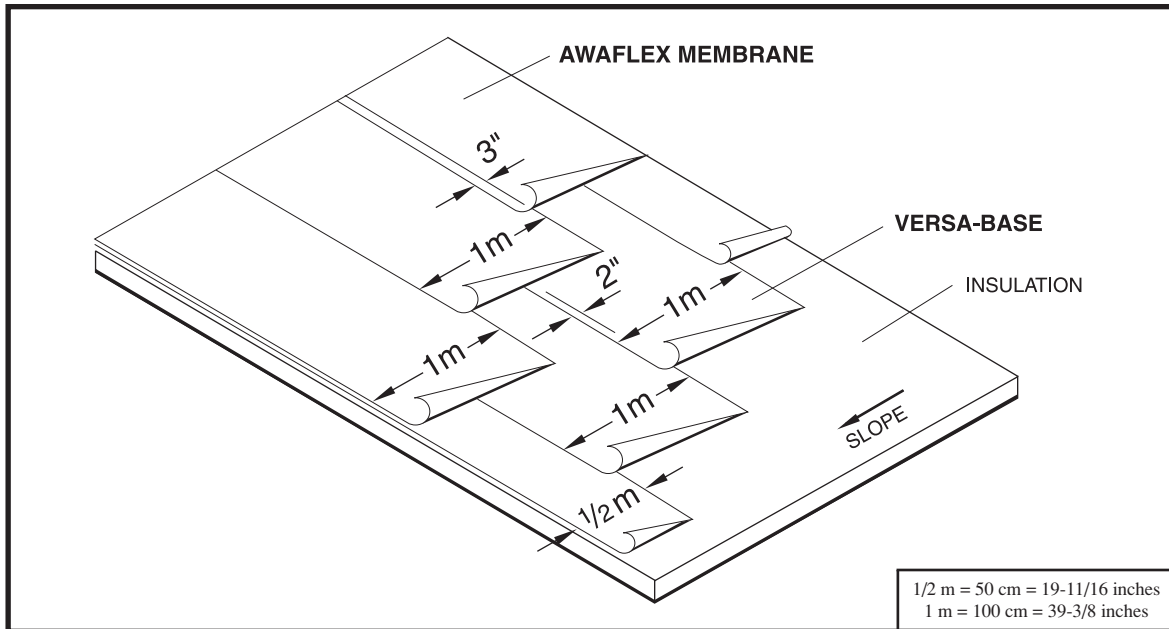
**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

**U.L. Requirements:**  
Contact TAMKO for information on U.L. systems requirements.

**Caution:** A product(s) in this specification contains crystalline silica. Crystalline silica has been classified as a “known” human carcinogen by the International Agency for Research on Cancer (IARC) and the National Toxicology Program. A product(s) in this specification also contains oxidized asphalt. Occupational exposures to oxidized asphalt and its emissions during roofing have been classified by IARC as a “probable human carcinogen”. Oxidized asphalt also contains Polycyclic Aromatic Hydrocarbons some of which have been classified by IARC as known or probable human carcinogens. The physical nature of the product(s) in this specification may help limit any inhalation or dermal hazard during application and/or removal. However, physical forces such as sawing, grinding or drilling during demolition work and heating or burning may increase the inhalation or dermal exposure hazard of the product(s) in this specification. Take precautions to prevent breathing and contact with skin.

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dized asphalt and its emissions during roofing as a “probable human carcinogen.” During installation and removal of the product(s) in this specification, including “hot mopped” application, workers must take precautions to assure adequate ventilation and use effective personal protective equipment to prevent exposures to dusts, fumes, vapors and mists. It is the responsibility of the contractor and workers to protect themselves and others in the work area from exposure to oxidized asphalt and its emissions when applying the product(s) in this specification.



#### Material Requirements

TAMKO VERSABASE® Modified Asphalt Base Sheet	1 ply
TAMKO AWAFLEX® FR	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.

**Slope:** Positive drainage up to 3 in. per linear ft. For slopes above 3/4 in. per linear ft., fastening of the AWAFLEX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Insulation:** The insulation should be installed according to the manufacturer's specification in the thickness required. The insulation should conform to TAMKO requirements. Polyisocyanurate and expanded polystyrene must have an overlay of a minimum 1/2 in. fiberboard, perlite, or fiberglass roof insulation.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, Type III for slopes up to 1/4 in. and Type IV for slopes up to 3 in.

**VERSA-BASE Sheet:** Starting at the low point of the roof, install 1 layer of TAMKO VERSA-BASE beginning with a 1/2 m width, then a full 1 m width, side lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Solid mop to the insulation with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft.

**AWAFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLEX should be solidly adhered to the ply sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material must be a TAMKO polyester reinforced modified asphalt flashing material.

#### U.L. Requirements:

Contact TAMKO for information on U.L. systems requirements.

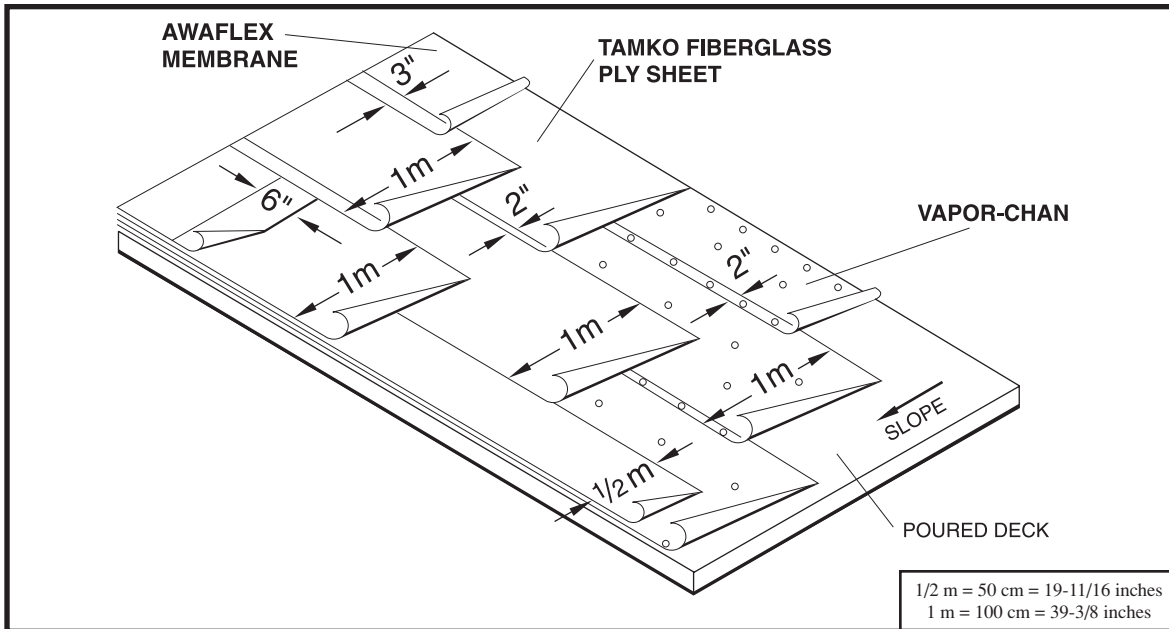
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## 1013 AWAFLEX

NAILABLE DECKS (GYPSUM, PRECAST\* AND LIGHTWEIGHT INSULATING CONCRETE)



### Material Requirements

TAMKO VAPOR-CHAN® Fiberglass Venting Asphalt Base Sheet	1 ply
TAMKO TAM-PLY IV® Fiberglass Ply Sheet	1 ply
TAMKO AWAFLEX® (Granule Surfaced)	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.
Clinch-type nails for base sheet (per 100 sq ft.)	Approx. 100 nails

**Slope:** Positive drainage up to 3 in. per linear ft. **For slopes above 3/4 in. per linear ft.,** fastening of the AWAFLEX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, **Type III for slopes up to 1/4 in.** and **Type IV for slopes up to 3 in.**

**VAPOR-CHAN:** Starting at the low point of the roof, install 1 ply of TAMKO VAPOR-CHAN, side lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Nail the sheets along the lap at intervals of no more than 8 in. Stagger-nail down the center of the sheet on 16 in. centers along 2 lines located 12 in. from each edge of the base sheet. **For specific fastening patterns for wind uplift listings, contact the Technical Services Department.**

**Fiberglass Ply Sheet:** Starting at the low point of the roof, install a 1/2 m width, then a full 1 m width of TAM-PLY IV, side-lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Solid mop to the base ply with approximately 23 lbs. (±15%) of specification asphalt.

**AWAFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLEX should be solidly adhered to the ply sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

**U.L. Requirements:**  
Contact TAMKO for information on U.L. systems requirements.

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# SPECIFICATION SUBMITTAL

## 1013 AWAFLEX

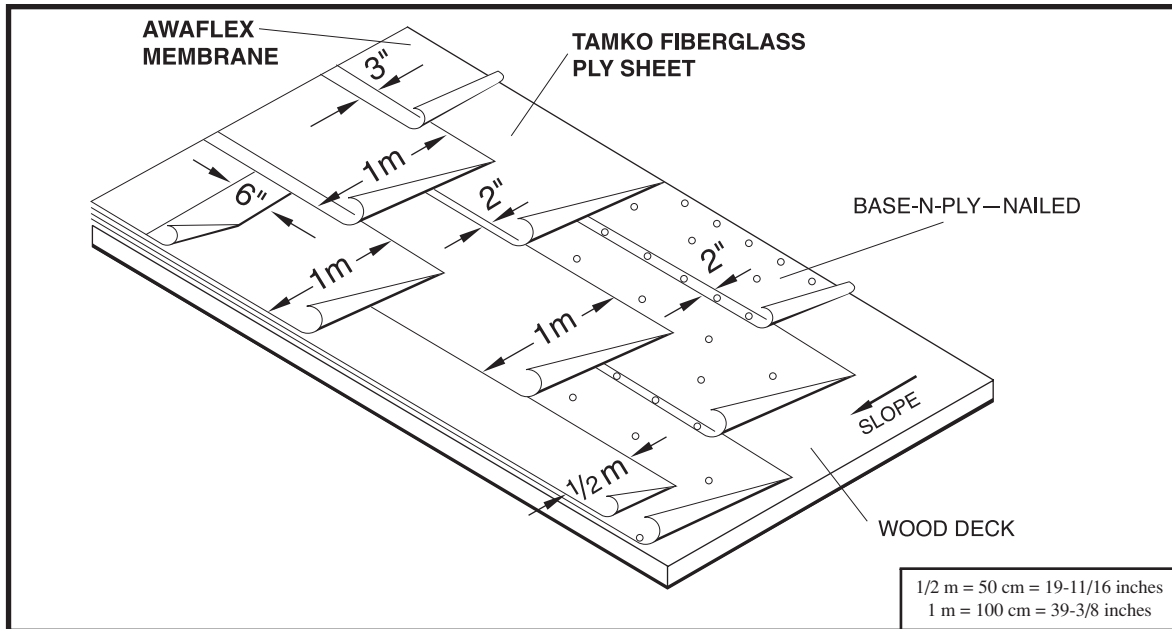
NAILABLE DECKS (GYPSUM, PRECAST\* AND LIGHTWEIGHT INSULATING CONCRETE)

or dermal exposure hazard of the product(s) in this specification. Take precautions to prevent breathing and contact with skin.

Application of product(s) in this specification using "hot mopped" applications may expose workers and others in the work area to oxidized asphalt and its emissions. The International Agency for Research on Cancer has classified occupational exposures to oxidized asphalt and its emissions during roofing as a "probable human carcinogen." During installation and removal of the product(s) in this specification, including "hot mopped" application, workers must take precautions to assure adequate ventilation and use effective personal protective equipment to prevent exposures to dusts, fumes, vapors and mists. It is the responsibility of the contractor and workers to protect themselves and others in the work area from exposure to oxidized asphalt and its emissions when applying the product(s) in this specification.

\*Precast Concrete Decks: This specification may be utilized over a precast concrete deck when joints are taped and the VAPOR-CHAN is installed in spot moppings of specification asphalt on (not to exceed) 24 in. centers.

For complete information on TAMKO's recommendations and requirements, consult TAMKO's web site at [www.tamko.com](http://www.tamko.com)  
TAMKO Building Products, Inc., P. O. Box 1404, Joplin, MO 64802 • 1-800-641-4691 • [www.tamko.com](http://www.tamko.com)  
TAMKO®, Vapor-Chan®, Tam-Ply IV® and AWAFLEX® are registered trademarks of TAMKO Building Products, Inc.



**Material Requirements**

TAMKO BASE-N-PLY <sup>®</sup> Base Sheet	1 ply
TAMKO TAM-PLY IV <sup>®</sup> Fiberglass Ply Sheet	1 ply
TAMKO AWAFFLEX <sup>®</sup> (Granule Surfaced)	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.
Clinch-type nails for base sheet (per 100 sq ft.)	Approx. 100 nails

**Slope:** Positive drainage up to 3 in. per linear ft. For slopes above 3/4 in. per linear ft., fastening of the AWAFFLEX membrane is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, Type III for slopes up to 1/4 in. and Type IV for slopes up to 3 in.

**Base Sheet:** Starting at the low point of the roof, install 1 ply of TAMKO BASE-N-PLY, side lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Nail the sheets along the lap at intervals of no more than 8 in. Stagger-nail on 16 in. centers along 2 lines located 12 in. from each edge of the base sheet. For specific fastening patterns for wind uplift listings, contact the Technical Services Department.

**Fiberglass Ply Sheet:** Starting at the low point of the roof, install a 1/2 m width, then a full 1 m width of TAM-PLY IV, side-lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Solid mop to the base ply with approximately 23 lbs. (±15%) of specification asphalt.

**AWAFFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFFLEX should be solidly adhered to the ply sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

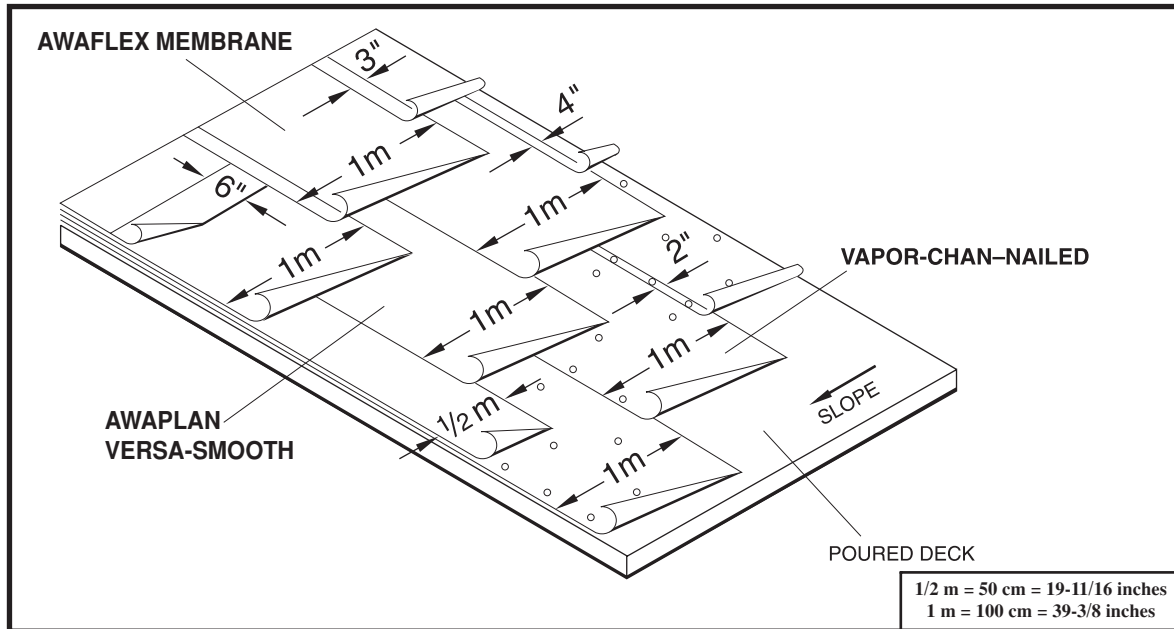
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demolition work and heating or burning may increase the inhalation or dermal exposure hazard of the product(s) in this specification. Take precautions to prevent breathing and contact with skin.

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### Material Requirements

TAMKO VAPOR-CHAN® Fiberglass Base Sheet	1 ply
TAMKO AWAPLAN VERSA-SMOOTH® Modified Base Sheet	1 ply
TAMKO AWAFLEX (Granule Surfaced)	1 ply
Asphalt (Per 100 sq. ft.)	Approx. 46 lbs.

**Slope:** Positive drainage up to 3 in. per linear ft. For slopes above 3/4 in. per linear ft., fastening of the AWAFLEX is required.

**Deck:** The deck should conform to TAMKO general requirements.

**Asphalt:** The asphalt should be certified by the manufacturer to meet ASTM D-312, Type III for slopes up to 1/4 in. and Type IV for slopes up to 3 in.

**VAPOR-CHAN:** Starting at the low point of the roof, install 1 ply of TAMKO VAPOR-CHAN, side lapped 2 in. and end lapped 4 in. Apply at a right angle to the slope of the roof. Nail the sheets along the lap at intervals of no more than 8 in. Stagger-nail down the center of the sheet on 16 in. centers along 2 lines located 13 in. from each edge of the base sheet. For specific fastening patterns for wind uplift listings, contact the Technical Services Department.

**AWAPLAN VERSA-SMOOTH:** Starting at the low point of the roof, install 1 ply of TAMKO AWAPLAN VERSA-SMOOTH, beginning with a 1/2 m width, then a full 1 m width, side lapped 4 in. and end lapped 6 in. Apply at a right angle to the slope of the roof. The AWAPLAN VERSA-SMOOTH should be solidly adhered to the base sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt

should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

Alternately, the AWAPLAN VERSA-SMOOTH can be heat welded and should be solidly adhered to the base sheet by sufficiently heating the back side with a torch at the juncture of the base sheet and the AWAPLAN VERSA-SMOOTH roll to form a bead of melted asphalt as the AWAPLAN VERSA-SMOOTH is rolled out.

**AWAFLEX:** Starting at the low point of the roof, install 1 layer of TAMKO AWAFLEX granule surfaced sheet, side lapped 3 in. and end lapped 6 in. The AWAFLEX should be solidly adhered to the ply sheet (pressed into the hot asphalt) with approximately 23 lbs. (±15%) of specification asphalt per 100 sq. ft. The asphalt should be above 400° F at the point of application and mopped no more than 4 ft. in front of the roll.

**Flashing:** The flashing material **must** be a TAMKO polyester reinforced modified asphalt flashing material.

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demolition work and heating or burning may increase the inhalation or dermal exposure hazard of the product(s) in this specification. Take precautions to prevent breathing and contact with skin.

Application of product(s) in this specification using “torch applied” or “hot mopped” applications may expose workers and others in the work area to oxidized asphalt and its emissions. The International Agency for Research on Cancer has classified occupational exposures to oxidized asphalt and its emissions during roofing as a “probable human carcinogen.” During installation and removal of the product(s) in this specification, including “torch applied” or “hot mopped” application, workers must take precautions to assure adequate ventilation and use effective personal protective equipment to prevent exposures to dusts, fumes, vapors and mists. It is the responsibility of the contractor and workers to protect themselves and others in the work area from exposure to oxidized asphalt and its emissions when applying the product(s) in this specification.

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