

### APS-4T.1 NON-NAILABLE DECK

If plans or specifications require installation of a modified bitumen membrane system over a non-nailable deck, apply this specification (APS-4T.1). Apply this system using the appropriate Bitec approved base flashing, metal flashing or wall covering as specified in the most current edition of the Bitec "Roofing Material Specification and Details" publication.

#### SEC. 1.00 INSULATION

The following insulations are acceptable for use with APS-4T:

- Perlite
- Polyisocyanurate
- Wood Fiber
- Cellular Glass

#### SEC. 2.00 CANTS

Flashing details, where the transition is from the horizontal to a vertical surface, a noncombustible cant strip must be used.

#### SEC. 3.00 BASE SHEET

A minimum of one ply of fiberglass TYPE G2 base sheet must be installed over the insulation or deck before the membrane is heat welded.

#### SEC. 4.00 FASTENERS

Consult Factory Mutual Research Publications governing your region, or FM J.I.OQ3A3.AM governing Bitec products and systems.

#### SEC. 5.00 OUTLETS

Drainage outlets shall be installed below the roof deck surface to permit positive drainage of the roof deck and to prevent water ponding at the drain rim. Base ply should be evenly trimmed with the drain flange, followed with a 40" x 40" heat welded collar of Bitec APS-4T. This collar must extend into and be fully adhered to the interior of the drain flange and interior surface. The APS-4T membrane shall be fully adhered to the base ply, flashing collar, and extend into the drain. Clamp ring should be installed and tightened while the membrane is hot. A 4lb. lead or 16 oz. copper flashing is optional between the collar and the field membrane. APS-4T collar should extend 4" beyond the lead or copper

flashing.

#### SEC. 6.00 PIPE FLASHING

Where penetrations occur in the roof surface, a collar of APS-4T should be installed over the base ply extending a minimum of 4" beyond the flanges. A metal flashing shall be installed having a continuous flange 4" minimum, on top of the APS-4T collar. (On nailable decks, the metal flange must be nailed 3" o.c., 3/4" from the perimeter.)

**NOTE:** All metal flashings must be primed with an asphalt primer and allowed to dry before membrane and flashings are installed.

The field membrane must be fully-adhered to the APS-4T collar and metal flange. All seams must be troweled and filled with molten modified bitumen.

#### SEC. 7.00 ROOF DECK

The roof deck must be smooth, dry, clean and free of sharp projections and depressions, and properly graded to the outlets.

#### SEC. 8.00 FINAL SURFACING

As an option, any Bitec approved roof coating can be applied to the finished membrane system. Bitec recommends that a period of at least 45 days elapse before roof coating is applied. (Roof coating may be necessary to comply with UL or FM System requirements.) Bitec will not cover membrane damage or failure of any roof system, resulting from coatings from another manufacturer.

#### WARRANTIES

- (1) 10-YR. MATERIAL ONLY
- (2) 10-YR. LIMITED "INSURED" ROOFING WARRANTY\*

In order to obtain warranty (2), which covers labor and materials, an authorized Bitec applicator must install the roofing system. A small warranty fee is assessed if the system is not coated or does not have a factory installed mineral surface. Final inspection by a Bitec field representative is necessary before issuance of warranty. Information regarding Bitec warranties may be obtained by calling 800-535-8597.

*\*Extended warranty periods are available, 12, 15 and 20 years.*

### APS-4T.2 NAILABLE DECK

If plans or specifications require installation of a modified bitumen membrane system over a nailable deck, apply this specification (APS-4T.2). Apply this system using the appropriate Bitec-approved base flashing, metal flashing or wall covering as specified in the most current edition of the Bitec "Roofing Material Specification and Details" publication.

#### SEC. 1.00 INSULATION

The following insulations are acceptable for use with APS-4T:

- Perlite
- Polyisocyanurate
- Wood Fiber
- Cellular Glass

#### SEC. 2.00 CANTS

Flashing details, where the transition is from the horizontal to a vertical surface, a noncombustible cant strip must be used.

#### SEC. 3.00 BASE SHEET

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#### SEC. 4.00 FASTENERS

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#### SEC. 5.00 OUTLETS

Drainage outlets shall be installed below the roof deck surface to permit positive drainage of the roof deck and to prevent water ponding at the drain rim. Base ply should be evenly trimmed with the drain flange, followed with a 40" x 40" heat welded collar of Bitec APS-4T. This collar must extend into and be fully adhered to the interior of the drain flange and interior surface. The APS-4T membrane shall be fully adhered to the base ply, flashing collar, and extend into the drain. Clamp ring should be installed and tightened while the membrane is hot. A 4 lb. lead or 16 oz. copper flashing is optional between the collar and the field membrane. APS-4T collar should extend 4" beyond the lead or copper flashing.

#### SEC. 6.00 PIPE FLASHING

Where penetrations occur in the roof surface, a collar of APS-4T should be installed over the base ply extending a minimum of 4" beyond the flanges. A metal flashing shall be installed having a continuous flange 4" minimum, on top of the APS-4T collar. (On nailable decks, the metal flange must be nailed 3" o.c., 3/4" from the perimeter.)

**NOTE:** All metal flashings must be primed with an asphalt primer and allowed to dry before membrane and flashings are installed.

The field membrane must be fully-adhered to the APS-4T collar and metal flange. All seams must be troweled and filled with molten modified bitumen.

#### SEC. 7.00 ROOF DECK

The roof deck must be smooth, dry, clean and free of sharp projections and depressions, and properly graded to the outlets.

**NOTE:** The roofing contractor, architect, and the engineer must allow for positive drainage when designing the roof deck or roof system. Bitec defines positive drainage as: roof deck becomes devoid of water within 72 hours after liquid precipitation has occurred. Bitec will not be responsible for membrane damage as a result of inadequate roof deck drainage.

#### SEC. 8.00 FINAL SURFACING

As an option, any Bitec approved roof coating can be applied to the finished membrane system. Bitec recommends that a period of at least 45 days elapse before roof coating is applied. (Roof coating may be necessary to comply with UL or FM System requirements.) Bitec will not cover membrane damage or failure of any roof system, resulting from coatings from another manufacturer.

#### WARRANTIES

- (1) 10-YR. MATERIAL ONLY
- (2) 10-YR. LIMITED "INSURED" ROOFING WARRANTY\*

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# APS-4T

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## SPECIFICATION



system. A small warranty fee is assessed if the system is not coated or does not have a factory installed mineral surface. Final inspection by a Bitec field representative is necessary before issuance of warranty. Information regarding Bitec warranties may be obtained by calling 800-535-8597.

*\*Extended warranty periods are available, 12, 15 and 20 years.*



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