ADHERED TPO ASSEMBLY PLATE

Assembly Identification

Membrane Thickness
- 4 = 45 mil (1.14 mm)
- 6 = 60 mil (1.51 mm)
- 8 = 80 mil (2.03 mm)

S = Single Ply
TPO Membrane

Attachment
- A = Adhered
- U = Urethane Adhesive

Membrane Type
- R = Reinforced
- P = Polyester Fleece Backed

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Vapor Barrier Application Key
- (CA) Cold Applied
- (HA) Hot Asphalt
- (HW) Heat Weld
- (SA) Self Adhered

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For JM Guarantee Requirements Contact JM Technical Services at (800) 922-5922 Option 3 or Refer to the JM Peak Advantage Charges and Requirements-Single Ply document

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Project Name:
Project Location:
Project Number:

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TPO Membrane and Specification Number:
- 45 mil - ST4RA
- 60 mil - ST6RA
- 80 mil - ST8RA
- FB 115™ - ST6PU (Urethane Adhesive)
- FB 115 - ST6PA (Fully Adhered)
- FB 135™ - ST6PU (Urethane Adhesive)
- FB 135 - ST6PA (Fully Adhered)
- FB 150 - ST6PA (Hot Asphalt Fully Adhered)
- FB 175 - ST6PA (Hot Asphalt Fully Adhered)
- (See below for types)

Approved Insulations:
- ENRGY 3° (ENRGY 3 Options)
- CGF
- FR
- 20 PSI
- 25 PSI
- Tapered
- Invinsa Foam™

Approved Thermal Barrier:
- (If Applicable)
- JM SECUROCK®
- Gypsum-Fiber Roof Board
- Glass-Mat Roof Board
- JM DEXCELL®
- FA Glass-Mat Roof Board
- JMDexCELL
- Gypsum-Fiber Roof Board
- JM DensDeck Roof Board
- JM DensDeck Prime Roof Board

Approved Vapor Barrier:
- (If Applicable)
- DynaBase° (CA) (HA)
- DynaBase PR (CA) (HA)
- GlasPly™ IV (HA)
- GlasPly Premier (HA)
- APPeX™ 4S (HW)
- DynaWeld™ Base (HW)
- DynaBase HW (HW)
- DynaWeld 180 S (HW)
- JM APP® Base Sheet (HW)
- DynaGrip™ Base SD/SA (SA)
- JM BaseGrip™ SD/SA (SA)
- JM Vapor Barrier SA (SA)
- 6 or 10 mil poly with taped seams

Approved Base Sheets:
- (If Applicable) Over Nailable Deck
- DynaBase®
- DynaBase PR
- DynaFast™ 160 S
- DynaLastic™ 180 S
- GlasBase™ Plus
- GlasTile® Flexible
- PermaPly™ 28
- Ventsulation™ Felt

Approved Cover Boards:
- (If Applicable)
- Invinsa® Roof Board
- Invinsa FR Roof Board
- NanoPlus™ Roof Board
- JM DEXCELL®
- FA Glass-Mat Roof Board

Deck Type:
- Existing Roof (re-cover)
- Steel (22 Ga. Min.)
- Structural Concrete
- Nailable Decks include:
- Cementitious Wood Fiber
- Gypsum
- Lightweight Insulating Concrete
- Wood (Plywood, Plank, OSB)

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ADHERED TPO ASSEMBLY PLATE

General
This specification is for use over any approved structural deck which is capable of withstanding the above selected systems. This specification is also for use over certain JM roof insulations which provide a suitable surface for the JM membrane. This specification can also be used in certain re-roofing applications.

Note:
Consider all general instructions contained in the current JM TPO Application Guide as part of this specification.

Design
Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), FM Global® and local building codes can provide guideliness for the designer.

TPO Membrane Application
Before installation, until the JM TPO membrane and allow it to "relax." The laps of JM TPO adhered systems must be hot air welded. Clean all surfaces to be welded. Follow manufacturer's operating instructions for welding equipment. All hot welded laps must have a minimum of 1 1/2" (38 mm) in width. Do not apply adhesive to the laps area of the sheet that will be welded. Refer to detail T-MAS-07 for neat welding tip information. Refer to the JM TPO Application Guide for further information.

TPO Edge Sealant is required on all cut or non-encapsulated edges of reinforced membrane. This includes factory cut membrane. Refer to detail T-MAS-01 for further information.

Appropriate JM Membrane Adhesives include:
- JM PVC Membrane Adhesive (TPO & EPDM)
- JM TPO 1168 Membrane Adhesive
- JM Membrane Bonding Adhesive (TPO & EPDM)
- JM TPO Water-Based Membrane Adhesive
- Roofing System Urethane Adhesive (RSUA) (Fleece Backed Only)
- JM Two-Part Urethane Insulation Adhesive Canister (2P UIA) using the spatter method (Fleece Backed Only)
- Hot Asphalt (Fleece Backed Only)

When installing a water based, low-VOCS, or solvent based two sided application with smooth backed membrane, apply adhesive to both membrane and approved substrate at rates listed on specific product data sheets. Most applications apply approximately half the listed rate to the membrane and the other half to the substrate. Once the adhesive begins to change color and feels tacky, but with no stringers, carefully roll the membrane to the substrate. For porous substrates such as wood and gypsum, apply adhesive to both substrate. Water-based, low VOC and solvent based adhesives can be used to bond JM TPO membrane to both horizontal and vertical surfaces. Refer to detail T-PW-M11 for further information.

When installing a Water Based, one sided application with Fleece Backed membrane, apply adhesive to the substrate only, not to the membrane or in the weld area - refer to details T-MAS-27 & T-MAS-08. Keep both surfaces clean and dry. Apply adhesive to the substrate at the rates listed on specific product data sheets. Assembly membrane and substrate while the adhesive on the substrate is still wet. Refer to the Fully Adhered Systems section in the JM TPO Application Guide for further information.

When installing a Fleece Backed Membrane in urethane adhesive (beads of RSUA or spatter JM 2P UIA Canister), apply the adhesive directly to the substrate and allow it to begin to rise and build tack before placing membrane into the adhesive. Membrane attachment requires the membrane be rolled with a 150 lb. roll to ensure positive contact between membrane and substrate. Refer to the Installation Instructions for JM urethane in the application guide and follow the application instructions for the type of adhesive utilized.

When installing a Hot Asphalt application for fleece backed membrane, the membrane must be firmly and uniformly placed in a full mapping of hot asphalt, without voids. Asphalt must not be applied to the salvage edges of the fleece backed membrane to allow for a minimum 1 1/2" (38 mm) weld. The maximum sheet width for TPO Fleece Backed Hot Asphalt application is 10 feet.