

# TRI-BUILT SA Base Sheet



## GENERAL RECOMMENDATIONS & APPLICATION METHODS

TRI-BUILT SA Base Sheets are specially designed for applications where the use of torches, open flames, solvent-based adhesives or hot asphalt is undesirable or prohibited.

### A: STORAGE

TRI-BUILT SA Base Sheet must be stored at room temperature whenever possible. Avoid storing out of box for prolonged periods above 88°F (31°C). Do not take the roll out of the box until it is ready for application. Do not store in direct sunlight, bright sunshine, or in hot weather. Removal of release film may cause a slight static electricity discharge.

**WARNING:** TRI-BUILT SA Base Sheet may contribute to a slip and fall hazard unless adequate precautions are taken when working. This is more likely when wet and icy conditions exist. TRI-BUILT recommends the use of safety harnesses to prevent accidents. Common sense and standard roofing safety practices prevail.

### B: SURFACE PREPARATION & PRECAUTIONS

TRI-BUILT SA Base Sheet is to be applied directly to approved insulations, base sheets or roof decks. Do not apply to shingles, shakes, or other residential roof coverings.

**B1:** Apply only when the weather is dry and material interface temperatures (air, roof deck, membrane) are 40°F (5°C) and rising. Roofing installation shall not be conducted when water in any form i.e. rain, dew, ice, frost, snow exist. Use of hot air gun or SBS cold adhesive flashing cements, may be required under low temperature conditions.

**B2:** All roof deck application areas shall have positive drainage, continuous support, be structurally sound to support the live and dead load requirements of the roofing system, and be sufficiently rigid to support construction traffic. TRI-BUILT minimum slope requirement is 1/4"/12.

**B3:** Apply only over clean, dry, dust-free surfaces. For best results it is recommended that wood, concrete, masonry, metal, metallic surfaces, acceptable existing smooth surface BUR and other acceptable substrates are primed with an approved ASTM D-41 asphalt roof primer prior to the application of the membrane. Any primed substrate should be fully dry prior to installation. Refer to manufacturers recommendations for such.

**B4:** Masonry or concrete supported by steel frame or other steel structure shall be provided with suitable expansion provisions and detailed for movement.

**B5:** Applicators shall ensure installation of any TRI-BUILT Self-Adhesive membrane does not prevent or interfere with ventilation of existing construction.

## C: APPLICATION

**C1:** Remove any loose matter, dust, etc. When re-roofing: remove existing materials down to an acceptable substrate and insulations, and discard obsolete protrusions and repair any voids or imperfections.

**C2:** Cut the TRI-BUILT SA Base Sheet to a suitable length depending upon conditions and application etc.

**C3:** Lay the material flat in place with chalk line starting at the lowest point.

**C4:** Align the membrane with chalk line at the lowest edge of the roof.

**C5:** Fold the aligned membrane in half exposing the split release film.

**C6:** Peel release film at a 45° angle in a constant motion, ensuring to keep weight on the outer edges as you progress. Position the next sheet by overlapping seams and line up the overlap of the top sheet edge with the inside of the bottom sheet's factory selvage edges overlap and cut end laps minimum 6".

**C7:** Press the membrane into place with firm, even pressure.

**C8:** At seam overlaps, remove protective tape and apply even pressure to seam area.

**C9:** Roll edges firmly with silicon or other suitable roller to ensure full adhesion.

**C10:** Applications greater than 2" to the foot should be back nailed at the seams center with ring shanked capped roofing nails at 8" o.c.

**C11:** After adhering rolls it is required that uniform pressure be applied to the entire roll area by using an 80 lb. minimum linoleum roller, water filled lawn roller or similar weighted roller in a method suitable to the roof slope. Care must be taken to prevent injury when rolling membrane, especially on slope surfaces.

**C12:** Details are carried out by the use of a hot-air welding technique, a premium trowel grade modified bitumen asphalt adhesive in combination with the TRI-BUILT Self-Adhesive membranes.

## NOTES:

At "Bonding Areas" where a seam must be made to the granular surface, the following alternatives are acceptable:

Alternatives at Bonding Area:

1: Granular area heated to embed granular into SBS or APP compound before installing subsequent flashing piece.

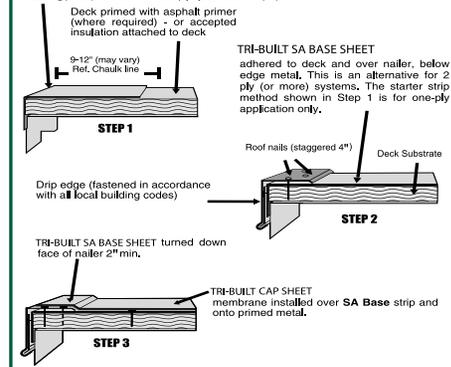
2: Heat weld subsequent flashing seams with hot-air gun or mini-torch.

3: Endlaps must be a 6" min. and FULLY ADHERED. This can be achieved by carefully applying Flashing Cement in the 6" overlap area before joining the seam surfaces. Note: To prevent unsightly surplus adhesive on the visible area, mask the endlap temporarily with the tape and remove when the adhesive is dry, or apply loose granules into the wet adhesive.

**B:** Ensure adhesion is achieved at all metal surfaces by priming with and approved ASTM D-41 asphalt roof primer (spray grade available) and providing a 3" min. overlap.

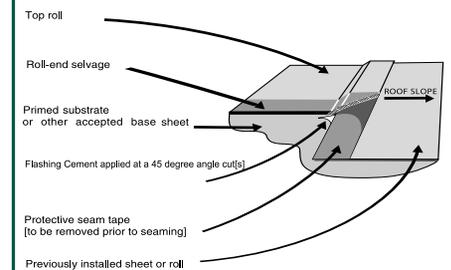
## TYPICAL ROOF EDGE DETAIL

Starter strip cut to required width, adhered to deck. Insure the polyolefin "top film" is clean and dust free in order to achieve the best adhesion of the following plies. (Note: For 2 or more ply systems see Step 2).

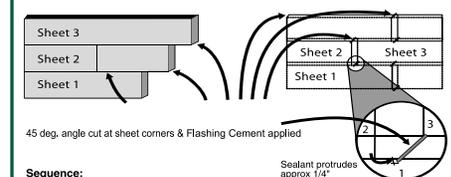


## SEAMING DETAIL FOR TRI-BUILT SA BASE SHEET

New plywood decks do not need priming. However, all joints should be taped with 3" duct tape.



## SEAM INTERSECTION TREATMENT - FIELD



**Sequence:**  
a. Sheet 1 is applied to substrate.  
b. "Triangle pieces" of approx. 45 deg. are cut off at the "bottom" corner of sheet 2 (usually at the end of the sheet) and at the "top" corner of sheet 3. (the side top selvage edge).  
c. Sheet 2 is aligned & applied to the substrate.  
d. A bead of Flashing Cement is applied at the angle cuts (see insert).  
e. Sheet 3 is applied.  
f. Top sheet is carefully rolled parallel to both sides of the sealant [not on the sealant].

## SEAM INTERSECTION TREATMENT - FLASHING

