MULTIPLE PENETRATION PIPE BOOT INSTALLATION

1.5. Sealing side-by-side multiple penetrations (option 1);

$ Cut a patch large enough to overlap 12” in all directions (Fig. 7) of penetrations.

% Mark where to cut openings and cut four to eight slices about 3/8” less than the diameter of the penetration for each.

& Force patch material over penetration to achieve a tight fit and form a lip.

' Once patch is positioned, seal the perimeter to the membrane by applying 2-sided 9,$9(; Butyl Seal Tape in-between the two layers. (Fig. 8)

(After applying 9,$9(; Butyl Seal Tape between the patch and membrane, tape around each of the penetrations and the patch with VaporSeal™ 4” tape. (Fig. 9) For additional protection apply POUR-N-SEAL™ or an acceptable polyurethane elastomeric sealant around the penetrations. (Fig. 10)

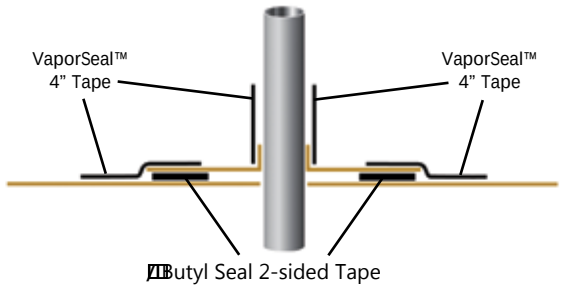

Fig. 6

Option 1

Cut a patch large enough to overlap 12” in all directions and slide over penetrations (Make openings as tight as possible.)

Fig. 7

Once the overlay patch is positioned, seal the perimeter to the membrane by applying 2-sided 9,$9(; Butyl Seal Tape in-between the two layers.

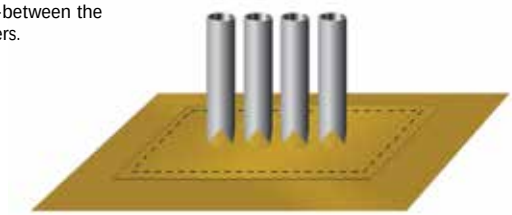

Fig. 8

After applying 9,$9(; Butyl Seal Tape between the patch and membrane, tape around the perimeter of the penetration and the patch with VaporSeal™ 4” Tape.

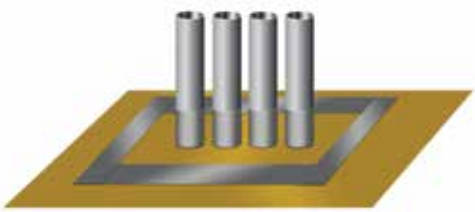

Fig. 9

For additional protection apply POUR-N-SEAL™ or an acceptable polyurethane elastomeric sealant around the penetrations.

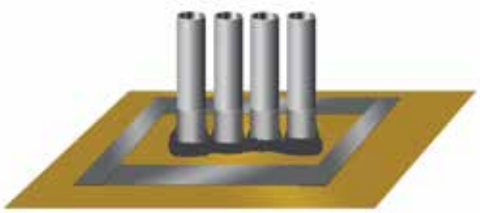

Fig. 10

Option 2

1.6. POUR-N-SEAL™ method of sealing side-by-side multiple penetrations (option 2);

A) Install the vapor barrier as closely as possible to pipe penetrations to minimize the amount of POUR-N-SEAL™ necessary to seal around all penetrations.

B) Once barrier is in place, remove soil or other particles with a dry cloth or a fine broom to allow for improved adhesion to the POUR-N-SEAL™ liquid.

C) Create a dam around the penetration area approximately 2" away from the pipe or other vertical penetrations by removing the release liner from the back of a 1" weather stripping foam and adhere to the vapor barrier. Form a complete circle to contain the POUR-N-SEAL™ materials (Fig. 11).

D) Once mixed, pour contents around the pipe penetrations. If needed, a brush or a flat wooden stick can be used to direct the sealant completely around penetrations creating a complete seal (Fig. 12-13).

E) DO NOT leave excess POUR-N-SEAL™ in plastic container for longer than the time it takes to pour sealant.

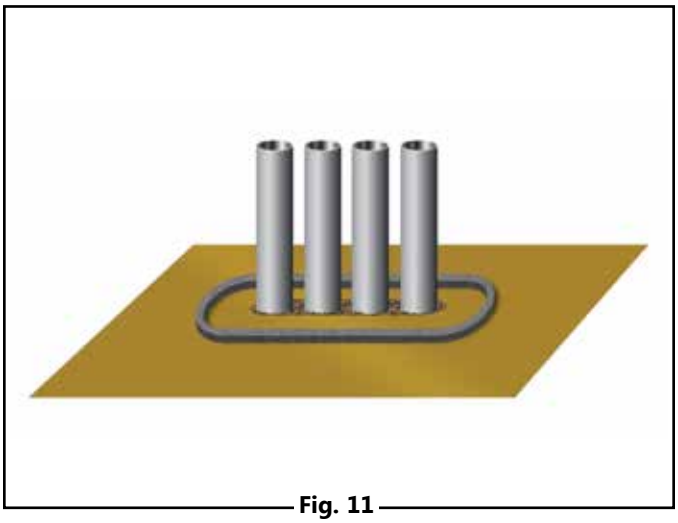

Fig. 11

Fig. 12

Fig. 13

VAPORBLOCK® PLUS™ REPAIR INSTRUCTIONS

1.7. Proper installation requires all holes and openings are repaired prior to placing concrete. When patching small holes, simply cut a 12" long piece of 12" wide VaporSeal™ tape. Remove release liner and center over the opening. Apply pressure to create a seal (Fig. 14-15).

1.8. When installing VaporBlock® Plus™ around pipe penetrations, vertical columns, electrical ducts and other obstructions, you will find it necessary to cut it to the nearest outside edge. This cut can be easily sealed with 12" wide VaporSeal™ tape, by simply centering it over the cut, 6" on either side. Once the tape is placed correctly, apply pressure to assure a complete seal (Fig. 16).

Reminder Note: All holes or penetrations through the membrane will need to be patched with 12" VaporSeal™ Tape.

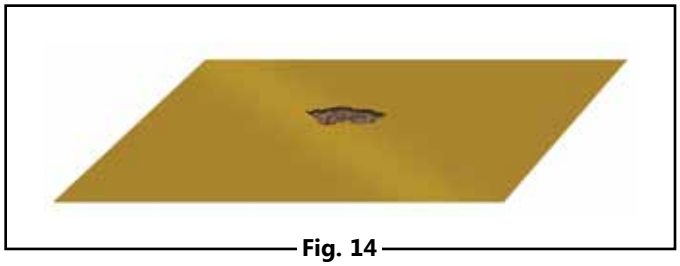

Fig. 14

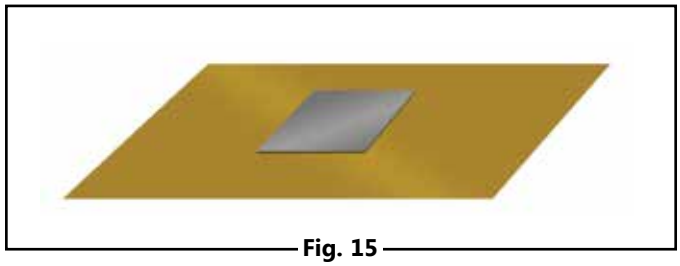

Fig. 15

VAPORBLOCK® PLUS™ PROTECTION

2.1. When installing reinforcing steel and utilities, in addition to the placement of concrete, take precaution to protect VaporBlock® Plus™. Carelessness during installation can damage the most puncture–resistant membrane. Sheets of plywood cushioned with geotextile fabric temporarily placed on VaporBlock® Plus™ provide for additional protection in high traffic areas including concrete buggies.

2.2. Use only brick-type or chair-type reinforcing bar supports to protect VaporBlock® Plus™ from puncture.

2.3. Avoid driving stakes through VaporBlock® Plus™. If this cannot be avoided, each individual hole must be repaired per section 1.7.

2.4. To avoid penetrating VaporBlock® Plus™ when installing screed supports, utilize non-penetrating support, such as the Mako® Screed Support System (Fig. 17). Avoid driving stakes through VaporBlock® Plus™. If this cannot be avoided, each individual hole must be repaired per figures 14-15.

2.5. If a cushion or blotter layer is required in the design between VaporBlock® Plus™ and the slab, additional care should be given if sharp crushed rock is used. Washed rock will provide less chance of damage during placement. Care must be taken to protect blotter layer from precipitation before concrete is placed.

VaporBlock® Plus™ Gas & Moisture Barrier can be identified on site as gold/white in color printed in black ink with following logo and classification listing (Fig. 18)

VaporBlock® Plus™
Gas & Moisture Barrier

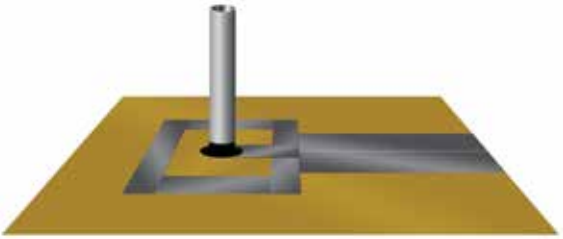

Fig. 16

Fig. 17

VaporBlock® Plus™
UNDERSLAB VAPOR RETARDER / GAS BARRIER

Fig. 18

* Patent Pending

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