

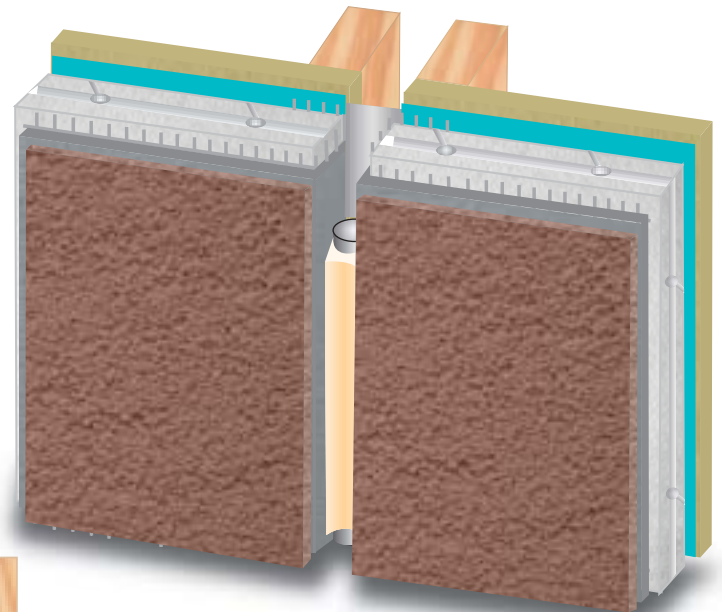
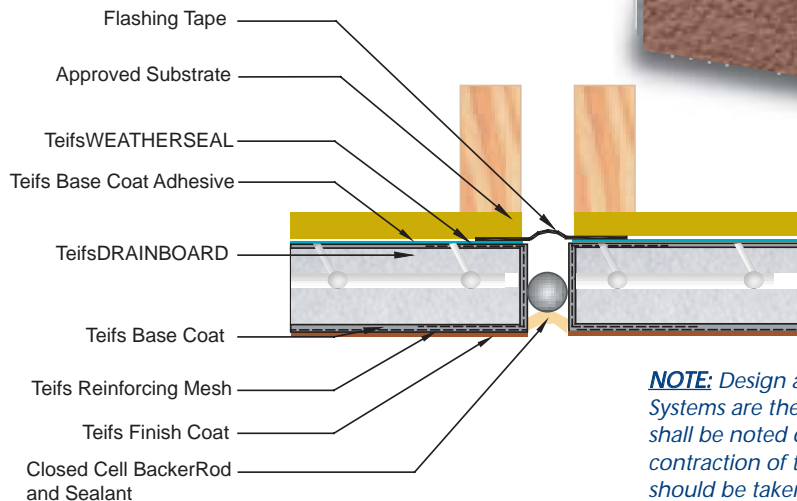
TeifsTEK TIPS

August 2004
Category 4

Detailing Series

The issue:

EXPANSION JOINTS



NOTE: Design and location of expansion joints in Teifs Wall Systems are the responsibility of the project designer and shall be noted on project drawings. Expansion and contraction of the Teifs Wall System and adjacent materials should be taken into account in the design of expansion joints. Teifs assumes no responsibility for joint design or selection of sealant.

RECOMMENDED INSTALLATION LOCATIONS

1. Building expansion joints
2. Floor lines in wood frame construction
3. Substrate changes
4. Expansion joints in the substrate system
5. Where panels abut one another for a panelized installation
6. Where the Teifs Wall System abuts dissimilar materials
7. Where significant structural movement occurs such as along continuous elevations, changes in roof line and changes in building shape and structural system
8. Where a structural engineer or designer deems it necessary

PRODUCTS

Backer Rod: **MUST BE CLOSED CELL!**

1. The backer rod sets the sealant depth, prevents three sided adhesion and promotes the correct geometry of the sealant. Select a size that will compress 25% and make sure that the closed cell backer rod is never punctured, as this could cause out-gassing and/or blistering of the sealant.
2. Bicellular or non-gassing polyolefin backer rod, (soft-type or Sof-Rod) is also approved for use with Teifs PB EIFS Wall Systems.
3. Open cell Backer Rod is **never** allowed.

Bond Breaker: If the joint is too shallow, a bond breaker tape should be used to prevent 3 sided adhesion.

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Primers & Sealants:

1. Low modulus sealants will perform the best with Teifs Wall Systems. The lower the modulus, the more the sealant is allowed to move and will therefore provide less stress on the sealant/EIFS bond line and help prevent cracking or gaps.
2. When in a cold climate, the sealant should maintain a low modulus.
3. The following have shown to be compatible with Teifs Wall Systems products:

One-part silicones

- Dow Corning 790, 791(EIFS to metal), 795/1200 Prime Coat
- GE Silpruf LM / SS4044 or SCS3195 primer
- Pecora 890 / P64 primer

Two Part Urethane

- Pecora Dynatrol II P/75 or 150 Primer

Other products not listed may be acceptable but must be approved by Texas EIFS in writing

INSTALLATION

Surface Preparation:

- **Finish Coat should never be applied in a moving joint where sealant is to be applied.**
- Joint surfaces must be dry, clean and free of all contamination and foreign matter. This is essential for good adhesion. If sealant is applied immediately after the base coat has cured, dusting will usually clean the joint.
- Prior to installation, inspect joints for proper design in accordance with contract documents, make sure all joints are clean and free of any matter, mask adjacent materials and allow all Teifs Wall System materials to dry.
- Masking is important to keep primers and sealants off all surfaces they are not intended for as they cannot be removed without damaging the surface.
- Sealant cannot be installed onto exposed Insulation Board.

Primer:

1. Primer should be put into a small, clean container (enough for 10-20 minutes of application).
2. Apply the primer with a soft bristle brush to the inside of the joint. **OVERPRIMING CAN CAUSE THE LOSS OF ADHESION.**
3. Allow primer to dry, according to manufacturers' recommendations.
4. Primer and sealant must be applied on the same day (within 8 hours); otherwise the surface will need to be re-primed.

Backer Rod/Bond Breaker Tape:

Install backer rod that is 25% larger than the joint at a depth calculated by the joint design criteria. Where the joint is too shallow a bond breaker material shall be installed prior to applying the wet sealant to prevent three sided adhesion.

Sealant:

- Proper installation of EIFS must start with a fresh, unopened sealant. In order to eliminate potential problems it is necessary to check the sealants before application begins. This should be done for every lot number being used.
- Sealant should always be applied on the same day as cleaning.
- Carefully follow the sealant manufacturers' instructions and use materials in their original unopened containers.

GENERIC INSTALLATION INSTRUCTIONS

(Please contact the sealant manufacturer for exact application instructions and priming recommendations.)

1. Cut the tapered nozzle at a 45° angle at a diameter of the opening equal to the size of the gap.
2. Poke a hole through the tip with a piece of wire and insert cartridge into caulk gun.
3. Load and lock plunger.
4. Hold the caulking gun at a 45° angle to the joint with the tip of the applicator touching both surfaces and squeeze the trigger firmly, slowly and consistently until the caulk begins flowing from the opening.
5. Once the sealant begins flowing, move the tip at a constant pace along the joint. **Less is better.**
6. Push the sealant ahead with the application nozzle and use positive pressure to completely fill the joint width.
7. When you reach an end, quickly release the plunger to keep the sealant from seeping out.
8. The sealant should be tooled during its "tooling time."

NOTES TO REMEMBER

- Keep the bead uniform.
- Sealant must fill the entire joint and fully contact all surfaces.
- **When using Pecora's Dynatrol II:** This is a two part product and must be applied according to Pecora's application instructions.

Please note that to prevent water leakage, Teifs recommends that a skilled professional install your sealant system. Call Teifs for recommendations.

Look for more TeifsTEK TIPS Coming Soon!



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