



TechBREAKER™ At-Grade Insulated Panel Installation Instructions ALERT!

THIS IS A COMPOSITE PRODUCT OF RUBBERIZED FABRIC BONDED TO XPS FOAM. **IT CAN BE PULLED APART WITH SUFFICIENT FORCE! DO NOT PULL PRODUCT APART***. LONG TERM STRENGTH OF TECHBREAKER IS FROM MECHANICAL FASTENERS ATTACHED THROUGH THE TECHBREAKER INTO THE CONCRETE/CMU FOUNDATION. *If this occurs, a Contact Cement or Foam Adhesive can reassemble the separation.

PLEASE READ ALL INSTRUCTIONS BEFORE BEGINNING INSTALLATION!!

This installation guideline is provided to help prevent installation errors and problems. These are intended to be recommendations and do not serve as a step-by-step installation checklist as installation conditions can vary widely. Blue Hills Tech LLC, the manufacturer, and our distributors and dealers shall not be held responsible for installation actions either taken or not taken. Many details of product installation are borne of assumption of general construction knowledge to an experienced installer and thus are not included in these guidelines. Selection of an experienced installer is always recommended for best results, and is the sole responsibility of the property owner and architect, if applicable. Blue Hills Tech LLC does not accept any responsibility for product failure resulting from or associated with improper site environmental conditions.

INSTALLATION INSTRUCTIONS

1. PRODUCT

TechBREAKER® is an at grade 'groundbreaker' foundation insulation with a rubberized surface bonded to extruded polystyrene (XPS) foam. Panels are a nominal 16" H x 8' L with thicknesses of 1.0", 1.5' or 2.0". CHECK AND COMPLY WITH LOCAL BUILDING CODES.

2. STORAGE

On the jobsite TechBREAKER should be kept off the ground, stored on a flat dry surface and with covered with a breathable waterproof tarpaulin.

3. PREPARATION

- a. Make sure foundation is clean and free of obstructions for installation of TechBREAKER. Use wire brush to clean surface. Make sure surface is as smooth as possible and dry.
- b. Check that the existing wall structure is smooth and even without bumps or depressions.

4. INSTALLATION

- a. TechBREAKER is meant to be installed over poured concrete and CMU foundations at ground level.
- b. Create a sufficient trench to bury the bottom of the TechGRADE and attach fasteners below grade surface.
- c. Determine panel locations and if trimming is required prior to installation. If panels must be trimmed cut back sufficient foam (4-6") from the covering to form a flap, which can be attached with a contact cement-type adhesive or heat bonded to the adjacent panel.
- d. Fasteners engineered to attach to concrete are required (Tapcon-type). Pre drill for fastening. A minimum of 1" thread engagement into the concrete is required. Advance testing of the pull out resistance is recommended. Fasten every 12" O.C. top and bottom. No matter what mechanical fastening method in use, always follow the fastener manufacturers directions and instructions.
- e. Install panel so top 2" flap will be covered by siding when finished. Attach fasteners at top through TechBREAKER and into concrete. Staple or nail top flap into sill plate or framing if accessible. Attach fasteners at bottom through TechBREAKER and into concrete that is below grade. Optionally foam adhesive can be used as in addition to fasteners between foam and foundation (Note: fasteners still must be used).
- f. The 6" end flaps are attached to the previously installed panel or at an inside or outside corner with these adhesive methods:
 - optional tape strip
 - commercial roofing heat sealer
 - solvent-based contact cementAttach flap at far end top and bottom to adjoining panel with mechanical fasteners after adhering flap to panel per above.
- g. Siding/wall covering should be applied over dry insulation as soon as possible.

4. FASTENERS

Concrete/CMU Foundations - Use Tapcon screws or equal. Pre drill for fastening. A minimum of 1" thread engagement into the concrete is required. Advance testing of the pull out resistance is recommended.



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Typical Installation Cutaway

