



## ***TB WALL Insulation Panel Installation Instructions***

### 1. PRODUCT

TB WALL is a nailable exterior wall insulation panel consisting of 7/16" OSB or optional 5/8" or 3/4" OSB or plywood bonded to extruded polystyrene (XPS) foam. Panels are a nominal 4' x 8'. TB WALL is attached with SIP Fasteners to existing sheathing and studs for sizes over 2". TB WALL sized 2" and under can be attached directly to studs with #10 ring shank nails. For more information on the product and its uses and limitations, please see company literature. CHECK LOCAL BUILDING CODES.

### 2. STORAGE

TB WALL is shipped in plastic wrapped units intended to temporarily protect the material while in transit only. On the jobsite the units should be covered with a breathable waterproof tarpaulin. The plastic wrap should be removed if moisture accumulates inside it.

### 3. INSTALLATION

#### a. TB WALL over 2" thick:

TB WALL over 2" thick is meant to be installed over existing sheathing and stud wall (wood construction), metal studs or over concrete walls or metal building walls with SIP-type Fasteners. See appropriate SIP fastener pattern on website [www.techbreaker.net](http://www.techbreaker.net).

TB WALL 2" thick and under:

TB WALL 2" thickness and under can be applied directly to unsheathed stud walls with #10 ring shank nails at 3" OC on all studs and periphery; 6" OC in the field. See Nail Pattern for 2" and Under TB WALL on website [www.techbreaker.net](http://www.techbreaker.net).

- b. The designer/installer should determine whether a vapour retarder/house wrap is required between the existing wall surface and TB WALL. A vapour retarder should always be specified for high humidity buildings. A dew point calculation is recommended for verification.
- c. Fire safety precautions should be observed when TB WALL insulation is installed. Protect foam from flame cutting and welding operations, etc. Around any heat source opening such as a water heater or furnace flue provide sufficient protection.

- d. Install wood nailer that fully covers the bottom of the panel at the base of the wall, making sure support is level. Check that the existing wall structure is smooth and even without bumps or depressions.
- e. TB WALL can be installed either vertically or horizontally. Fill gaps where the panels meet at the stud with spray foam or caulk. Field cut panels should be kerf cut to maintain a 1/8" gap between the panels.
- f. Screw right through the panel into the sheathing and studs (over 2" thick) or nail direct into studs (2" and under thickness). Use SIP fasteners or proper nail pattern per warranty requirements. Do not over-torque SIP screws which compresses the insulation.
- g. Check the insulation top surface for uneven edges before covering. Grind off any uneven edges with a sander/grinder.
- h. House wrap (if applicable) and siding should be applied over dry insulation as soon as possible. Follow siding manufacturers' instructions. Note that it is preferable that siding be able to be attached to sheathing only. Siding can be attached through the sheathing and into the studs per siding manufacturers' recommendations if required.

#### 4. FASTENERS

- a. Wood Walls -. Use SIP Fasteners through sheathing and studs for over 2" thickness or #10 ring shank nails direct to studs if the insulation is 2" thick or under. Fasteners should penetrate studs by 1" when fastening to studs and sheathing for over 2" sizes or direct to studs for 2" and under sizes. SIP Fasteners should be sized 1½" thicker than the TB WALL panel for over 2" sizes. See website for fastener pattern and nail pattern.
- b. Metal Studs - Use SIP Fasteners. Fasteners should penetrate the steel deck a minimum of 1/2". See website or contact us for fastener pattern.
- c. Concrete Deck - Use Tech SIP Fasteners (or 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. See website or contact us for fastener pattern.



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