

# WeatherAll® Continuous Insulation

## Installation Guide For WeatherAll® XL, Pro, HD and GPS



EXPANDING IDEAS  
EXPANDING VALUE



The WeatherAll® family of continuous insulation products are designed for use as above grade exterior insulation. Applicable in new construction and remodeling, install WeatherAll® over wall sheathing to form an insulation layer that seals the exterior wall envelope.

Properly installed WeatherAll® will provide lasting energy savings, and improve the look of vinyl siding or other finish cladding. WeatherAll® continuous insulation forms an effective thermal break at studs and framing members, and levels the wall surface for improved performance and aesthetics. Be sure to follow wall preparation requirements of local building codes. We recommend installing a water resistant barrier (WRB) against the building sheathing, and ensuring that wall penetrations are properly sealed/flashed. Inspect existing WRB, and be sure to repair or replace damaged sections before proceeding.



Proper application of WeatherAll® does not require specialized installation training. However, unless you are an experienced weekend do-it-yourselfer, Polar recommends installation by a professional siding contractor.

When attaching WeatherAll® underlayment boards use corrosion resistant roofing nails with a minimum 3/8" diameter (9.5mm) head; 6d ring-shank nails and 15/16" diameter (24mm) plastic washers; self-drilling screws with 3/4" diameter (10mm) cap washers; or 1" wide-crown (25.4mm), No. 16 gauge staples. Be sure that fasteners are long enough to penetrate the substrate a minimum of 3/4" (19mm), and are spaced 24 inches (610 mm) on center around the perimeter and at all vertical framing members. Drive fasteners flush with board, but do not countersink.



Level, then snap a chalk line at the lowest point of the wall to be sided. Align the bottom of the WeatherAll® insulation with the chalk line and fasten to the wall. Attach starter strip in accordance with manufacturer's instructions, aligning the bottom of the starter strip with the bottom of the insulation boards. It is essential that the starter strip be level – for tips on getting it right refer to the Vinyl Siding Institute's *Vinyl Siding Installation Manual* (available at [www.vinylsiding.org](http://www.vinylsiding.org)).

Install WeatherAll® horizontally or vertically over exterior sheathing. Orient the boards to minimize the number of seams. The insulation board seams should be staggered relative to structural sheathing joints. Butt edges of boards tightly. Be sure to flash around openings and penetrations. For optimal insulation performance face reflective side of the board toward the surface that will result in the largest average air space.

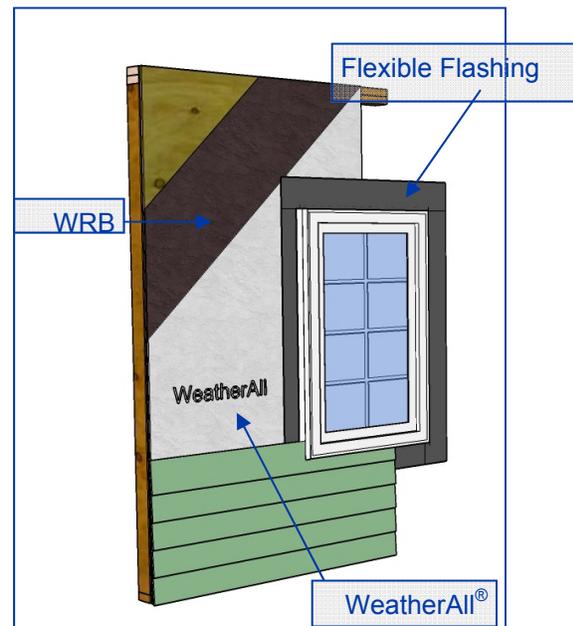
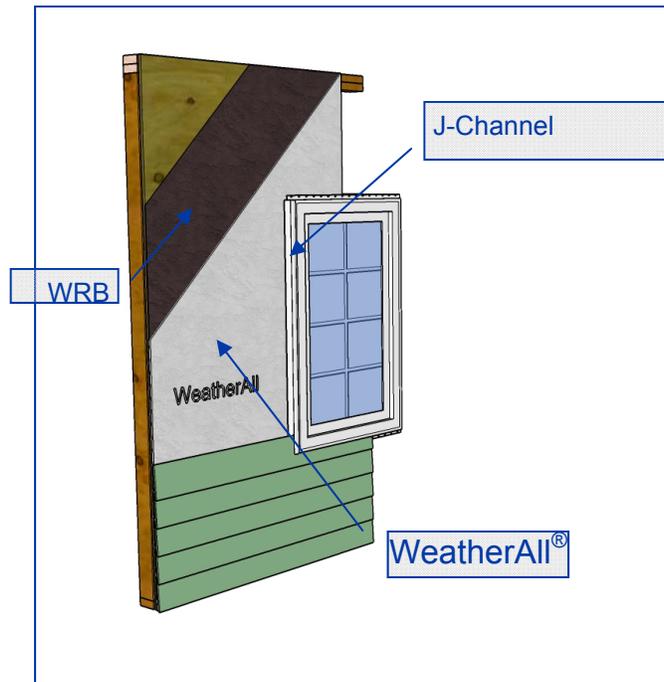
Proper sealing is needed to ensure full thermal performance.

First, tape seams using professional grade contractor tape or flexible flashing tape. Use a roller to fully secure tape. Poorly applied tape can fishmouth and may lead to water infiltration.

Next, visually inspect insulation for holes and gaps. Where needed seal with tape, or fill with expandable foam sealant or caulk. Trim foamed repairs flush to the face of the insulation.

Optionally seal WeatherAll® with flexible flashing at fenestration points.

WeatherAll® must not contact hot objects (e.g. chimneys, furnace and water heater flues, lighting fixtures, etc.) be sure to conform to local building codes when installing.





Polar Industries recommends using a retractable blade safety knife when working with WeatherAll<sup>®</sup>, DynaGuard or PolarGuard insulation products. Begin with a new blade to ensure precision cuts and follow these safety precautions:

- Wear cut-resistant gloves when working with any cutting implement.
- Do not attempt to cut if you are off balance. Position your body for stability, you will have better cutting leverage and control.
- Extend the blade sufficiently to allow for cutting at an acute angle to the insulation.
- Always cut in a direction away from your body, being sure to keep fingers out of the blade's path of travel.
- Fully retract blade before putting the knife down, passing it to someone else or before storing.
- Always use a sharp blade. Take care when changing blades and disposing of used blades carefully. Put tape on the cutting edge of old blades before discarding.

Polar Industries includes a snap-off, retractable blade safety knife in random bundles of WeatherAll<sup>®</sup>.



#### Caution

#### Polystyrene Foamed Plastic Insulation

As with many construction materials this product is combustible. It should not be exposed to flame or other ignition sources. It is the buyer's responsibility to see that the product is installed in accordance with applicable building codes. Local codes may require a protective or thermal barrier.

Meets IBC/IRC requirements for foam plastic insulation. Refer to section 2603 of IBC for details.

See product listings: NER-479, ESR-1798, ESR-1640, ESR-1095 and ESR-1634

Meets ASTM C-578 and HUD Specifications