FOAMULAR® & FOAMULAR® NGX

Project
EXTERIOR BELOW GRADE WALL

Recommended Products

FOAMULAR® 150
2”-3” thickness to meet Energy Code minimums

FOAMULAR® 250
2”-3” thickness to meet Energy Code minimums

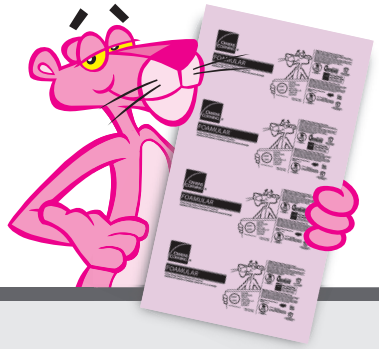
FOAMULAR® INSUL-DRAIN®

Basic Tools

- Tape measure
- Utility knife
- Straightedge
- Caulk gun (for adhesive)
- 4”-6” thin blade knife

Protective Gear

- Cut-resistant gloves
- OSHA approved safety glasses

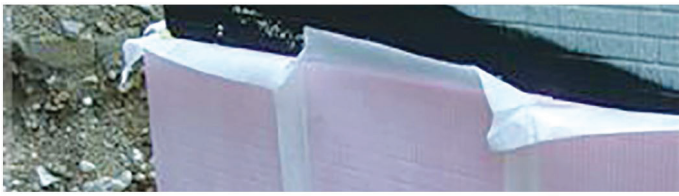


Site Preparations

1. Ensure that the substrate is clean and dry. Remedy all protrusions or surfaces that are not flat.
   *For framed applications. Check that framing provides a flat, level surface. Repair or replace any warped or damaged framing.
2. Remove obstacles to the work area including all potential trip hazards.
3. Do not install during inclement weather.
4. Verify that ladders and/or scaffolding are in safe, working condition.

FOAMULAR® 150/250 Installation Instructions

1. Foundation walls must be sealed prior to installation of FOAMULAR®. FOAMULAR® will not act as the moisture barrier in this application.
2. Verify compatibility of FOAMULAR® to sealer. Sealer may need to be fully cured prior to application of FOAMULAR®.
3. If compatible, sealer may be used to hold FOAMULAR® in place or apply adhesive to wall following label instructions. Adhesive only has to hold the FOAMULAR® in place until the backfill is replaced.
4. Start in corner. Likely boards will be applied vertically.
5. Seams between boards are butted tightly. Taping of seams not required or recommended.
6. Verify thickness of FOAMULAR® needed to meet minimum Energy Code.
7. FOAMULAR® that is exposed above grade must be protected from UV by a cementitious product or coil stock.
8. See note on termites in the Additional Considerations section.



INSUL-DRAIN® Installation Instructions

1. INSUL-DRAIN® board is installed against exterior below grade foundation walls. INSUL-DRAIN® board can be installed directly over waterproofing or damproofing membranes provided that the membrane is properly cured.
2. INSUL-DRAIN® boards should be installed vertically with the fabric side away from the wall. Align the 4 ft. dimension along the horizontal wall and place the edge flush along a corner of the wall. INSUL-DRAIN® boards should be installed so as to extend vertically from the top of the footing to several inches below finished grade. Properly sized gravel fill should be installed at least one foot above the bottom edge of the board. The fabric overhang along the bottom of the board should be tucked underneath to the backside of the board. Should the project require less than a full size 8 ft. long board, excess should be trimmed from the bottom of the board leaving a 3-inch fabric tab to tuck underneath.
3. A bead of compatible adhesive should be applied along the entire top edge of INSULDRAIN® boards to secure top fabric overhang and prevent soil penetration into the drainage channels.
4. Adjacent INSUL-DRAIN® boards are installed by engaging the tongue and groove edge to ensure a solid fit between boards. It is suggested that a bead of waterproof sealant be applied in the edge groove area in order to retard water penetration to the foundation wall. Additional INSULDRAIN® boards should be installed in a similar fashion. The remaining fabric overhang on the tongue side should be overlapped onto the adjacent board and secured with a bead of compatible adhesive.
5. INSUL-DRAIN® boards can be trimmed to fit project dimensions or protrusions by scoring with a utility knife or cut with a handsaw. It is recommended that all length cutting take place on the bottom of the board.
6. At wall corners where two INSUL-DRAIN® boards intersect, one board should be trimmed flush with the wall and the second board trimmed to overhang the wall, by the thickness of the product, to produce a continuous thermal envelope. A bead of waterproof sealant should be applied vertically where the boards join each other. The fabric overhang should then be attached to the surface of the adjacent board with compatible adhesive.
7. Additional tiers of INSULDRAIN® boards should be installed the same as the first tier. Be certain to secure all fabric overhangs to adjacent boards with compatible adhesive.
8. Owens Corning recommends that INSUL-DRAIN® boards be at least partially backfilled the same day as installation to stabilize and secure the boards in place. The balance of the backfill should be added as soon as practical to fully secure the boards and protect them from jobsite damage and UV exposure. Care should be exercised during the backfill operation as to not allow soil penetration between INSUL-DRAIN® board and the foundation wall. As an alternative, in conjunction with partial backfilling, compatible construction adhesives can be used to temporarily secure INSUL-DRAIN® boards. Beads or spots of compatible adhesive can be dabbed to the backside of INSUL-DRAIN® board and then pressed firmly in place against the wall.
9. INSUL-DRAIN® board should not be installed unprotected above grade. In order to achieve a continuous thermal envelope, standard FOAMULAR® insulation panels should be installed against the foundation wall from the top of the INSUL-DRAIN® board to the sill plate. The exposed FOAMULAR® insulation should be covered with an appropriate protective coating.

Additional Considerations

- This product is not required to be installed by someone trained or certified by the manufacturer.
- As is, this product undergoes no chemical reaction and is in its final form when purchased. There is no need to evacuate the building during installation.
- FOAMULAR® cannot be in contact with hot surfaces such as chimneys or heat sources over 165 degrees F.
- Air Sealing—in applications that require air sealing, use Owens Corning® HomeSealR™ foam joint tape to seal joints between boards. Use Owens Corning® FlashSealR® foam flashing tape to seal FOAMULAR® to other substrates.
- Use HomeSealR™ to repair breaks. Replace foam into the board and then tape with HomeSealR™ to repair holes.
- Avoid leaving FOAMULAR® exposed for extended periods of time.
- For use in exposed applications refer to Code Evaluation Report UL-ER8811-01 and local building codes regarding the need for an ignition barrier.
- To cut boards to size, score with box knife then snap at the score.
- Use a 4”-6” thin blade knife to cut holes or other penetrations through the FOAMULAR®.

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