



INNOVATIONS FOR LIVING®

FOAMULAR® Extruded Polystyrene (XPS) Rigid Foam Insulation

Installation Guide for Owens Corning

Technical Bulletin

The intent of this document is to provide guidance on the installation of Owens Corning FOAMULAR® extruded polystyrene (XPS) insulating sheathing products in residential and light frame commercial construction. This document, the reference documents cited herein and any / all information found on product packaging, literature, presentations and videos collectively constitute the “manufacturer’s installation instructions” referenced in the ICC family of model codes – specifically the Intl. Energy Conservation Code (IECC), Intl. Residential Code (IRC) and Intl. Building code (IBC).

I. General

Optimum performance of Owens Corning’s FOAMULAR® Insulation products is dependent on 1) selection of the correct product for the assembly or application into/on which it is to be placed and 2) following these installation instructions. General rules which apply to both selection and installation include:

- The framed assembly or masonry surface onto which the Insulation is to be applied must be flat. FOAMULAR® Insulation is a rigid product and not intended for uneven surfaces. Any deformation of the application surface can result in a weakening of the attachment points and / or cracking of the insulation.

- There should be no voids or gaps in the insulation itself, around any objects that penetrate the insulation or at the interface of the insulation and framing members.
- FOAMULAR® Insulation is not structural. Structural sheathing or bracing must be used when applying to wood or metal framing.

II. Wood Frame Walls

- Apply FOAMULAR® Insulation to outside of braced framing or structural sheathing. Tongue and groove (T&G) edge panels install horizontally, square edge panels install vertically.
- Use cap-head (min. 1”) nails or screws spaced 12” o.c. for the perimeter and 16” o.c. in the field to attach the panels.
- Choose fasteners of sufficient length to penetrate framing members a minimum ¾” or through structural sheathing.
- Cover all framing with FOAMULAR® Insulation and fit joints tightly. Joints and openings may be sealed with Owens Corning JointSealR® Foam Joint Tape.

III. Metal Frame Walls

- Apply FOAMULAR® Insulation directly to metal framing members. Tongue and groove edge panels install horizontally, square edge panels install vertically.

- Fasten panels to framing with cap-head (min. 1”) screws spaced 12” o.c. at the perimeter and 16” o.c. in the field.
- Cover all framing with FOAMULAR® Insulation and fit joints tightly. Joints and openings may be sealed with Owens Corning JointSealR® Foam Joint Tape.

IV. Foundation Wall – Exterior

- Prior to backfilling, install FOAMULAR® Insulation to the exterior, from top of footing to the full height of the foundation wall.
- Adhere FOAMULAR® Insulation with long edges horizontal, edges tightly butted and vertical joints staggered. Joints and openings may be sealed with Owens Corning JointSealR® Foam Joint Tape.
- Secure FOAMULAR® Insulation with construction adhesive compatible with polystyrene or foamed plastics as noted by its manufacturer (follow adhesive manufacturers’ application instructions).
- Apply FOAMULAR® Insulation to wall within 15 minutes after adhesive is applied.
- Backfill carefully to avoid damage to FOAMULAR® Insulation.



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V. Basement Wall – Interior

- For installation on a framed wall built on the interior of the basement (foundation) wall see instructions for “Wood Frame Walls” and “Metal Frame Walls” above.
- For installation on furring, see instructions for FOAMULAR® InsulPink®.

VI. Under Concrete Slab

- Install FOAMULAR® Insulation after gravel fill has been built up to grade, thoroughly tamped and vapor retarder placed.
- Lay FOAMULAR® Insulation in place with edges pressed together and butting the foundation wall or adjacent vertical insulation.
- Pour concrete slab to cover all FOAMULAR® Insulation.

Reference Documents

- ICC Evaluation Services; Evaluation Report ESR-1061; http://www.icc-es.org/Evaluation_Reports/
- Owens Corning FOAMULAR® InsulPink® Basement Wall Insulation System; Installation Instructions, publication no. 58103; <http://insulation.owenscorning.com/homeowners/renovation/products/insulpink/>

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