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.

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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