

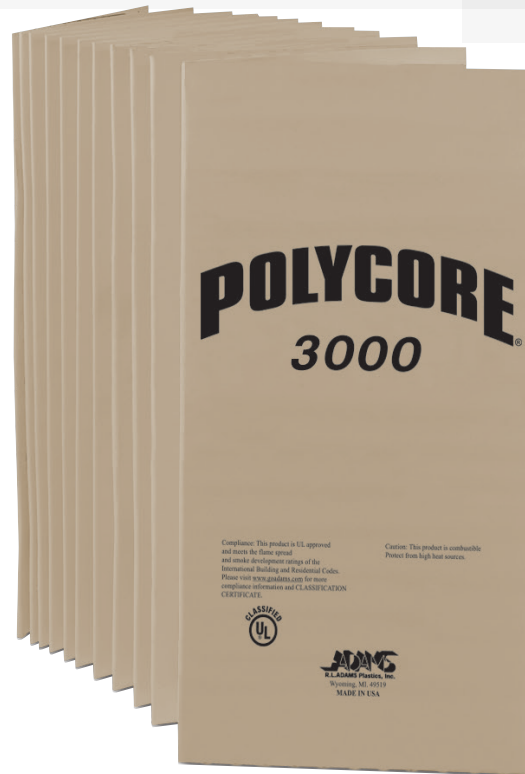
# POLYCORE 3000 EXTRUDED POLYSTYRENE FOAM INSULATION



POLYCORE 3000 Insulation is an extruded polystyrene (XPS) foam insulation board fanfolded for easy installation over existing exterior surfaces. It is used as a rigid foam underlayment for new siding materials. It also features a straight cut hinge, allowing the cladding to lie flat.

POLYCORE 3000 is a nominal 3/8" thick extruded polystyrene board and is produced in continuous 4' x 48' fanfolded sections with 24" crimped-seam spacing. POLYCORE 3000 provides sealing effectiveness and a smooth level surface for new siding.

POLYCORE 3000 Insulation meets ASTM C578, Type IV – Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. POLYCORE 3000 Insulation meets IRC requirements for foam plastic insulation. May be used as alternative water-resistive barrier as prescribed in Section 1404.2 of the IBC., Section 703.2 of the IRC, and Section 1402.1 UBC, when installed on exterior walls as described in this section.



**Table 1: Features and Benefits of POLYCORE 3000 Extruded Polystyrene Foam Insulation**

| Feature                       | Benefit  |
|-------------------------------|--|
| Straight cut hinge            | • Allows cladding to lie flat  |
| Continuous fanfolded sections | • Covers wall studs and cavity, enhancing thermal efficiency and moisture management |
| Flat seams                    | • Simplifies installation over old siding  |

## Installation

Before covering a wall with insulation and new siding, make sure the wall is sound. Do not install siding over walls that have deteriorated from moisture, insects or other causes.

1. Cover the exterior surface completely with POLYCORE 3000 Insulation. Butt the board edges tightly together. After measuring, score panels with a utility knife, then snap off the excess over the edge of the work surface.

2. Measure the combined thickness of the insulation and new siding. Use this measurement to determine the thickness of the door and window jamb extensions. Extend flashings. The sills may also need to be extended. Have a qualified electrician extend outlets, light fixtures, doorbell buttons and other electrical items.
3. Align the fanfolded boards along the bottom edge of the home or with the siding starter strip.
4. Nail boards directly over existing surface. Use nails recommended for cladding product. Make sure nails go through the insulation, the existing surface and into the framing. This nailing pattern serves as a guide when driving the cladding nails later on. Do not overdrive nails. This can crush the insulation and can also cause a wavy siding installation.

5. Tape all joints with construction tape (2-7/8" wide).
6. Apply cladding and trim. Use nails recommended for cladding product. Be sure nails go through the insulation, existing surface and into the framing.
7. Follow the cladding manufacturer's installation instructions.

*Compliance: ICC-ES Evaluation Report ESR-3914 Underwriters Laboratories, Inc – File: R13603*



## Build Green with R.L. Adams Plastics

R.L. Adams Plastics supports initiatives that help preserve our environment, and we strive for environmental sensitivity in our manufacturing processes and in our products. R.L. Adams produces insulating foams that:

- contain no VOCs\*
- are formaldehyde-free
- are not a known food source for mold or insects
- are recyclable (extruded polystyrene)

\* Visit [www.goadams.com](http://www.goadams.com) for more information in the Building Products section under Environmental Benefits

**Table 2: Typical Physical Properties of POLYCORE 3000 Extruded Polystyrene Foam Insulation**

| Property and Test Method   | Value        |
|--|--------------|
| Thermal Resistance @ 3/8", ASTM C518 @ 75°F mean temp., ft <sup>2</sup> •h•°F/Btu, R-value <sup>(1)</sup> , min. | 3/8" = R-1.5 |
| Density, ASTM D1622<br>Fresh, foam core only, min.<br>Fresh, foam core, max.                                     | 1.9<br>2.9   |
| Flame Spread <sup>(2)</sup> , ASTM E84   | 10           |
| Smoke Developed, ASTM E84  | 200-350      |

(1) R means resistance to heat flow. The higher the R-value, the greater the insulating power.

(2) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

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CAUTION: This product is combustible. Protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult [www.goadams.com](http://www.goadams.com) or call R.L. Adams Plastics 1-800-968-2241 or contact your local building inspector.

**WARNING: Rigid foam insulation does not constitute a working walkable surface or qualify as a fall protection product.**

Building and/or construction practices unrelated to building materials could greatly affect moisture and the potential for mold formation. No material supplier including Dow can give assurance that mold will not develop in any specific system.



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