

POLAR R™

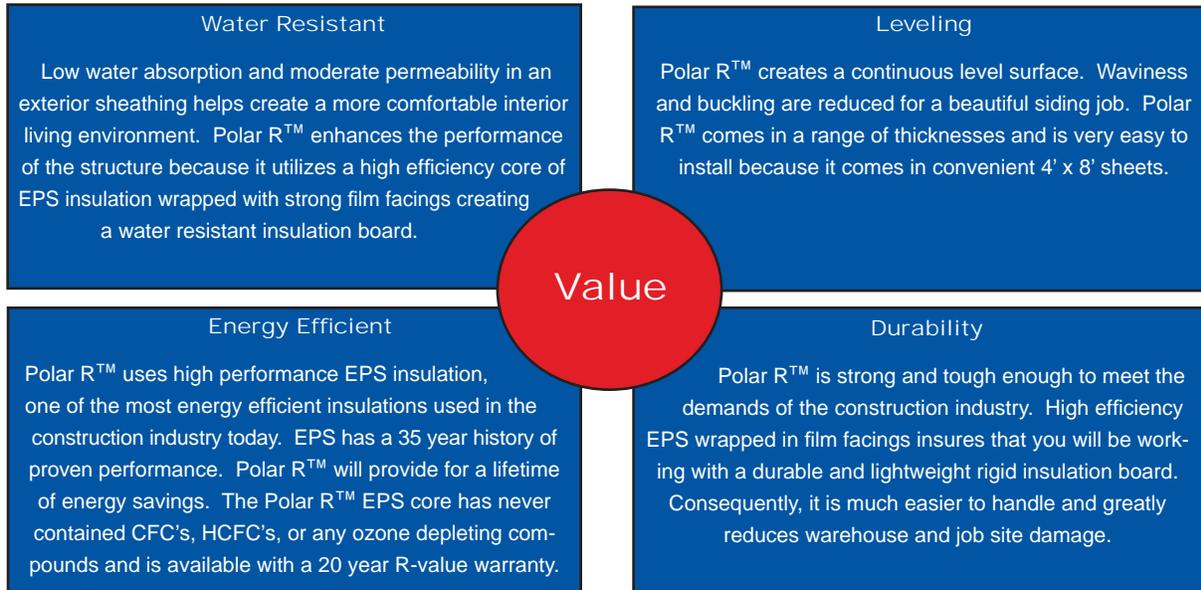
Siding Underlayment



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All beautiful siding projects begin with a solid foundation. You need a material that provides a flat and level surface for new siding. Combine those features with Energy Efficiency, Moisture Resistance, Strength, Durability and Value and you have found the perfect underlayment. Polar R™ was developed to meet all of those requirements. The Polar R™ design incorporates high performance EPS insulation with strong film facings making it a durable underlayment for the application of new sidings. EPS is long known in the construction industry for its superior energy efficiency. The Polar R™ design wraps your home in a continuous insulation envelope that reduces air infiltration and gives you a lifetime of energy savings.

The Polar product line is also available as a fan fold insulation which is manufactured with the same quality materials in 4' X 50' sheets and comes in 3/8" & 1/2" thicknesses.



Installation Instructions

- 1** The substrate should be flat, dry and free of any foreign materials that would damage the Polar R™ insulation board. Beginning of installation indicates that the installer has accepted the condition of the existing substrate.
- 2** Install Polar R™ directly over existing substrate using galvanized or aluminum roofing nails, remove any damaged siding and install directly over framing members if necessary.
- 3** Avoid over-driving of fasteners because this will compress the insulation and create a wavy appearance of the new siding exterior. The installer should be careful when installing under new siding materials. The board must lay flat and be adequately fastened.
- 4** Install the new siding directly over the Polar R™ per the siding manufacturers recommendations.
- 5** A higher R-Value can be achieved by using 1/2" furring strips between the existing substrate and the Polar R™ reflective surface. (Consult the R-Value chart for more information)

R-Value Chart*

Property	Unit of Measure	1/2" +FF 500	1/2" ++RF 500	3/4" +FF 750	3/4" ++RF 750	1" +FF 1000	1" ++RF 1000
Thermal Resistance "R Value"	Per Thickness	2.0	4.8**	3.00	5.8**	4.0	6.8**

*Refer to Tech Data Chart for additional physical property information.

** System R-Values are calculated from the ASHRAE Handbook of Fundamentals with the reflective facing adjoining a 3/4" parallel dead air space. The R-Values of these products installed without an airspace are 2.0 (1/2"), 3.0 (3/4") and 4.0 (1").

EPS core is manufactured to meet the requirement of ASTM C-578 and is listed under ICC 1006. Consult ACH Foam Technologies for current code compliance.

Caution: EPS contains a flame retardant; however, it should be considered combustible and not exposed to sources of ignition.

+FF (Film Facing) ++RF (Reflective Facing)



For more information about Polar R™ or ACH Foam Technologies visit www.achfoam.com

