



EPS Insulative Sheathing

PolyPro™ sheathing for cavity wall applications is a rigid insulation consisting of a high-performance closed-cell expanded polystyrene (EPS) with tough polymeric laminate facers. PolyPro™ is available with factory laminated metallized (foil) facers, clear facers or a combination of the two. PolyPro™ laminates are micro-perforated to reduce moisture build-up in the cavity wall. All PolyPro™ sheathings meet or exceed the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.



High Impact Polypropylene Laminate #1

Expanded Polystyrene Foam

H.I.PP Laminate #2



Increased R-Values. R-Values can be increased by placing the metallized (foil) side of the insulation towards the dead air space (3/4" minimum required) within the cavity wall. Values are based on the ASHRAE Handbook of Fundamentals.

Environmentally Friendly. PolyPro™ insulation contains no ozone-depleting HCFCs or formaldehyde and the foam core is 100% recyclable which contributes to LEED Certification and ENERGY STAR®

Termite and Mold Resistant. PolyPro™ can be manufactured with *Preventol® TM Preservative Insecticide an additive that kills subterranean termites instead of merely repelling them. PolyPro™ does not contribute to mold and mildew growth.

Cost-Effective. PolyPro™ is typically less expensive than other type wall insulations per inch of thickness.

PolyPro™ is available in range of 4' x 4' to 4' x 16' sheets in thicknesses ranging from 3/8" to 5" in 1/8" increments. In addition, custom sizes are available upon request.



800 647 6130

www.permarproducts.com



Specifications

(Polypropylene Laminated EPS Insulation)

1.0 GENERAL INFORMATION

1.01 References

- A. ASTM C 578-(Standard Specification for Performed, Cellular Polystyrene Thermal Insulation)
- B. ICBO, Section 1713 BOCA, Section 2603.0 SBCCI, Section 717 HUD/FDA
- C. Underwriters Laboratories Inc. (UL) R9306
- D. Perma "R" Products Data Sheets

1.04 Delivery, Storage and Handling

- A. Insulation packages shall be labeled with manufacturer's name, product brand name, and identification of product.
- B. When stored outdoors, insulation shall be protected from physical damage, deterioration by sunlight and moisture. Cover insulation with tarpaulins or other suitable covering. Condensation can be removed by slitting the bottom of factory applied packaging.

1.05 Project Conditions

- A. Follow local, state and federal regulations, safety standards and codes. When a conflict exists, use the stricter document.
- B. Follow insurance underwriter's requirements acceptable for use with PRP products.

2.0 PRODUCT

2.01 Acceptable Manufacturer

- Perma "R" Products, Inc., P.O. Box 279, Grenada, MS 38902
- Perma "R" Products, Inc., P.O. Box 5235, Johnson City, TN 37603

2.02 Materials

- A. Polypro TM Silver/Poly, Poly/Poly, or Silver/Silver

B. Physical Properties:

<i>Properties</i>	<i>Test Method</i>	<i>Polypro™</i>
Density	D 1622	1.0 lbs/cubic ft.
Compressive Strength	D 1621	12-17
Flexural Strength	C 203	28-35 psi
Water vapor transmission	C 355	1.2-2.2 per inch
Water absorption	C 272	1.5-2.0 %
Max service temperature		175
Coefficient of linear expansion	D 696	3.5 + 105 in/in/ F
Polypropylene facers		1.2 mils minimum

C. Related Materials

Insulation Fasteners approved by Building Code

3.0 EXECUTION

3.01 Preparation

- A. Before insulation application is started, verify Polypro TM EPS insulation is clean and dry, remove trash, debris, grease, oil, water, moisture and contaminates which may affect the attachment of the insulation to the surface.
- B. All depressions, holes, deformations, etc., shall be made smooth prior to the Polypro TM EPS insulation application.

3.02 Application/Installation (Mechanically)

Staple or use plastic ring fasteners to secure insulation to studs in wall. Spacing of fasteners should be no more than will keep product in place in windy or inclement weather. As always check with local building codes.

3.03 Cleaning

Leave work undamaged, clean and acceptable at final completion.

3.04 Protection

Installed insulation shall not be left exposed to the weather for extended length of time.

3.05 Packaging:

1/2"	40 pcs./unit	29 units/1/2 truck	58 units/ Full Truck
3/4"	27 pcs./unit	29 units/1/2 truck	58 units/ Full Truck
1"	20 pcs./unit	29 units/1/2 truck	58 units/ Full Truck

R-Values*	3/8"	1/2"	5/8"	3/4"	1"
Expanded Polystyrene Board	1.5	2.0	2.5	3.0	3.85
Polypropylene	.17	.17	.17	.17	.17
Air Space**	2.8	2.8	2.8	2.8	2.8
System R-Value	4.47	4.97	5.47	5.97	6.82

* Testing method ASTM C236-Horizontal heat flow at 75 F

**The system R-Value must be installed using an air space of at least 3/4"

R-Value means the resistance to heat. The greater the R-Value the greater the insulation power.



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