

EPS Foam Insulation

DESCRIPTION

PolyPro™ sheathing for cavity wall applications is a rigid insulation consisting of high performance closed-cell expanded polystyrene (EPS). Our insulation is available with factory laminated metallic reflective facers, clear facers, or a combination of the two. Our laminates are micro perforated to reduce moisture buildup within the wall cavity. PolyPro™ has a stable R-Value that will not decrease over the life of the product. PolyPro™ insulation contains no ozone depleting HCFCs or formaldehyde, and the foam core is 100% recyclable. As an added bonus, PolyPro™ will not promote the growth of mold or mildew.

INCREASED R-VALUE

R-Values can be increased by placing the metallic reflective side of the PolyPro™ towards the dead air space within the cavity wall (3/4" minimum space required to maximize reflective properties to achieve an additional R2.8). The dead air space is typically between the PolyPro™ sheathing and the exterior siding. See R-Values on reverse side.

TERMITE TREATED

As an added feature PolyPro™ can be treated with Preventol® insecticide, an environmentally safe additive. Termites can tunnel through and ingest foam in their search for a food source. PolyPro™ with Preventol® kills these termites and provides a secondary line of defense to standard termite treatments. Ask for PolyProTK™ if you live in a high termite infestation zone.



Highlights

- Contributes to LEED Points
- Contains no Formaldehyde
- Environmentally Friendly
- Energy Star Compliant
- Stable R-Values
- Contains no HCFCs
- Termite Treatment
- 100% Recyclable

PolyPro™ is available in a wide range of sizes and thicknesses.



TECHNICAL DATA SHEET

| EPS Test Results per ASTM C578 | | | |
|--|--|-----------|--|
| Property | Units | Type VIII | Standard |
| Density (U.S) Minimum Requirements | lbs/ft | 1.0 | ASTM D1622 or C303 |
| Thermal Resistance of 1" thick PolyPro | $F \times ft^2 \times h/Btu$ $75^\circ \pm 2^\circ F$ $F \times ft^2 \times h/Btu$ @ $40^\circ \pm 2^\circ F$ | 3.8 | Exceeds ASTM C518 Minimum Requirements |
| Compressive Resistance at yield of 10% deformation | psi | 12 -17 | ASTM D1621 or C165 |
| Water Vapor Permeance | 1", 1perm | 1.2 - 2.2 | ASTM E96 |
| Water Absorption by Total Immersion | Volume % | 1.5 - 2 | ASTM C272 |
| Flexural Strength | psi | 28-35 | ASTM C203 |
| Dimensional Stability (Change in Dimensions) | % Change | 2.0 | ASTM D2126 |
| Surface Burning Characteristics | Flame Spread Smoke Development | 5 25 | ASTM E84 or UL 723 |
| Chemical Resistance BASF TI 120 Resistance to chemicals | Insensitive to water, the majority of acids and alkalis; sensitive to organic solvents. | | |
| Biological Behavior | No harmful effects on health known | | |

*ASTM E-84 not required of ASTM C578
** Not included in ASTM

| Product | Standard Thickness | Standard Dimensions | R-Value |
|---|--|---------------------|---------------------------|
| PolyPro | $\frac{1}{2}$, $\frac{3}{4}$, 1", 2" | 4' x 8' | R1.93, R2.89, R3.85, R7.7 |
| Laminated with poly/poly or poly/metal facers. Also available unfaced. Laminated facers are perforated unless requested unperforated. Custom sizes are available. Upon request, PolyPro Products are available with a termite preventative additive. | | | |
| When using a poly/metal facer, an additional 2.8 R-Value can be achieved with a 3/4 inch air space between foam insulation and final cladding | | | |

R-Value Chart

| Thickness | 1/2" | 3/4" | 1" | 2" |
|----------------------------|------|------|------|------|
| PolyPro Board | 1.93 | 2.89 | 3.85 | 7.70 |
| Foil facing with air space | 2.8 | 2.8 | 2.8 | 2.8 |
| System R-Value* | 4.73 | 5.69 | 6.65 | 10.5 |

*To obtain the system R-Value there must be a minimum of 3/4" air space between the foil facing and the exterior cladding.
R = the resistance to heat flow
The higher the R-Value the greater the insulating power.

Notice: This insulation sheathing board meets or exceeds the physical properties of American Society of Testing Methods (ASTM) C578.

Installation: Install over exterior studs using 7/16" crown staple or 1" plastic cap nail fasteners. Fasteners must be 8" apart along vertical edge & center of sheathing penetrating the stud at least 3/4". Taping the seams of the sheathing will help keep air from infiltrating the structure. Do not use as a nailing base. Corner bracing is required.

Warning: Although this product contains a fire retardant agent, it is combustible. Keep away from open flame. If exposed to sufficient heat intensity, it may burn. It should not be left exposed or inadequately protected for long periods of time. As always, check with your local building official for specific use.

Preventol® is a registered trademark of LANXESS.
LEED is an internationally recognized green building certification system.
Energy Star® is a government backed program helping businesses and individuals protect the environment through superior energy efficiency.