

Laminated Expanded Polystyrene (EPS) Foam Insulation Board



APPLICATIONS

- **Sheathing** - Installed around exterior or within interior walls
- **Continuous Insulation Water Resistant Barrier** - Approved for Water Resistant Barrier (WRB) rated assemblies when all seams are taped
- **Roofing** - may be used as a cover board for metal retrofit projects

WHY POLY SHIELD®?

- Reduces energy costs by adding R-value to your roof or exterior walls
- Faced with tough polymeric laminates on both sides for added strength and durability in storing, handling, and installation
- Excellent thermal savings per dollar cost
- Dimensional stability
- Moisture resistant
- Laminated with printed polypropylene on both sides for added strength and durability in storing, handling, and installation
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- Density (pcf) : 1.0, 1.25, 1.5, 2.0, 2.5, 3.0, 1.0RC, 1.25RC
- Width: 12", 16", 24", 48"
- Segment Length: 48", 96", 108", 144"
- Thickness: 3/4", 1/2", 1"-6" Max (1/2" increments)

CODE APPROVALS

- ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
- Underwriters Laboratory Listed, UL ER7260, for interior and exterior walls
- UL classified TGFU.R7260 for roofing systems



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POLY SHIELD® FACER OPTIONS

- Standard: Printed Polypropylene facer on both sides
- Polyester: Polyester Facer printed with "This Side Up."
- Reflective - Printed Polypropylene facer on one side, metalized, reflective facer on the other



Properly installed with a dead air space, the reflective facer can provide a significant R-value boost to Poly Shield®'s thermal performance.



EFFECTIVE R-VALUES FOR POLY SHIELD® EPS WITH REFLECTIVE FACER AND DEAD AIR SPACE

Insulation Thickness	Design Temperature	Effective R-Value			
		Type I	Type VIII	Type II	Type IX
1/2"	25° F	4.4	4.5	4.6	4.7
	40° F	4.3	4.3	4.5	4.6
	75° F	4.1	4.2	4.3	4.4
3/4"	25° F	5.5	5.6	5.8	6.0
	40° F	5.3	5.4	5.6	5.8
	75° F	5.1	5.1	5.3	5.5
1"	25° F	6.6	6.7	7.0	7.2
	40° F	6.4	6.5	6.8	7.0
	75° F	6.1	6.1	6.4	6.6
1.5"	25° F	8.7	9.0	9.3	9.7
	40° F	8.5	8.6	9.0	9.3
	75° F	8.0	8.1	8.5	8.7
2"	25° F	10.9	11.3	11.7	12.2
	40° F	10.5	10.7	11.3	11.7
	75° F	9.9	10.0	10.5	10.9

*For horizontal heat flow through a vertical wall with a 3/4" dead air space. See American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Handbook and Cellofoam Technical Note #105, Incremental R-Value for Cellofoam Poly Shield EPS Insulation with a Reflective Facer, for details.

*Please consult local building codes and membrane manufacturers for system requirements.

Warning: This product is combustible and if exposed to a fire of sufficient heat and intensity may burn rapidly. It should not be left exposed or inadequately protected. Protect Cellofoam® expanded polystyrene from exposure to hydrocarbons, coal tar pitch, solvents, and solvent fumes. Consult specific instructions and applicable building codes for use of this product.

Cellofoam® North America Inc. is an expanded polystyrene foam manufacturer and not an engineering consulting firm. Thus, it is beyond our scope to provide design services on the specific use for our products. Users of our EIFS EPS products should consult with appropriate engineering and code experts to determine the exact type and specifications of EPS required for their project. The sale of these products shall be subject to Terms and Conditions of Sale, including those limiting warranties as set forth in Cellofoam®'s invoices. No agent, employee, or representative of Cellofoam® North America Inc. or its subsidiary or affiliated companies is authorized to modify this disclaimer.