



poly shield[®] Fan-Fold

Accordion Folded, Laminated EPS Foam Insulation Board



APPLICATIONS

- Frequently used on exterior walls as an insulative backer board for siding, but also to insulate interior or basement walls
- As a roofing underlayment / re-cover board. Ideal for low-slope commercial and industrial roofs that employ mechanically attached or ballasted roofing systems
- May be part of a class A fire rated roof assembly

WHY POLY SHIELD[®] FAN-FOLD?

- Accordion Design = quicker installation than competing 4 x 8 ft insulation or backer boards
- Reduces application labor costs for exterior walls or roof
- Optimal thermal savings per dollar cost
- Dimensional stability
- Moisture resistant
- Faced with tough polymeric laminates on both sides for added strength and durability in storing, handling, and installation
- 3rd Party Product Approval: UL Evaluation Report - ER7260-01 & Meets ASTM C578 Standards
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- 2 square bundles of 4 x 50 ft
- Density (pcf): 1.0, 1.25, and 1.5 lb/ft³
- Thicknesses of 3/8" & 1/2"



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 fully adhered ballasted, and mechanically attached roofing assemblies



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POLY SHIELD® FAN-FOLD 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



EPS TYPICAL PHYSICAL PROPERTIES

Cellofoam® EPS Typical 1 Physical Properties			ASTM C578 Type				
	Units	ASTM Test	Type I	Type VIII	Type II	Type IX	
Density (Nominal)	lb/ft³	C303 or D1622	1.0	1.25	1.5	2.0	
Density (Minimum)	lb/ft³		0.90	1.15	1.35	1.80	
Thermal Resistance							
R-Value²	at 25 °F	(°F ft² hr) / Btu per inch	C177 or C518	4.35	4.54	4.76	5.00
	at 40 °F		4.17	4.25	4.55	4.76	
	at 75 °F		3.85	3.92	4.17	4.35	
Compressive Strength at 10% deformation	psi	D1621	10 - 14	13 - 18	15 - 21	25 - 33	
Flexural Strength	psi	C203	25 - 30	30 - 38	40 - 50	50 - 75	
Water Vapor Permeance 1.0 in. thickness	perm.	E96	2.0 - 3.0	1.5 - 2.8	0.9 - 2.5	0.6 - 1.5	
Water Absorption by total immersion		C272 or C1763					
	volume %		< 1.5	< 1.5	< 1.5	< 1.5	
Capillarity	--	--	none	none	none	none	
Dimensional Stability maximum	change %	D2126	< 0.5	< 0.5	< 0.5	< 0.5	
Coefficient of Thermal Expansion	in/(in °F)	D696	0.000035	0.000035	0.000035	0.000035	
Fungus & Bacterial Resistance	-	C1338	Will not support bacterial or fungus growth; no food value				
1 Typical physical properties are based on data provided by resin manufacturer, independent test agencies, and Cellofoam North America Inc. All data is for plain, unlaminated EPS foam.							
2 R means resistance to heat flow. The higher the R value, the greater the insulating power.							

*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.