# CELLOFOAM®
Building Insulation Products

# 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

PREMIUM QUALITY · MADE IN USA·

CLASSIFIED UL®

WWW.CELLOFOAM.COM
800-468-3626

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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."
  - Compatible with PVC Membranes

- Reflective - Printed Polypropylene facer on one side, metalized, reflective facer on the other

## EPS TYPICAL PHYSICAL PROPERTIES

| Cellofoam® EPS Typical 1 Physical Properties | | Units | ASTM Test | Type I | Type VIII | Type II | Type IX |
|---|---|---|---|---|---|---|---|
| | | | | | **ASTM C578 Type** | | |
| **Density (Nominal)** | | lb/f³ | C303 or D1622 | 1.0 | 1.25 | 1.5 | 2.0 |
| **Density (Minimum)** | | lb/f³ | | 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 | | volume % | C272 or C1763 | < 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.