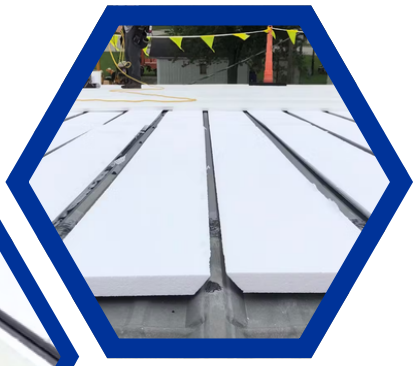
CELLOFOAM®
Building Insulation Products

Flute Fill

Premium Expanded Polystyrene Void Fill



APPLICATIONS

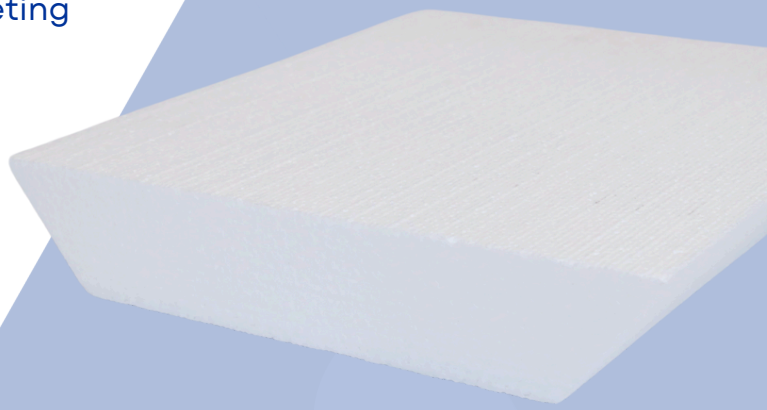
- **Roofing - Void fill installed within the flute of an existing metal roof as a component of a retrofit system**
- **Either loosely laid or mechanically attached to provide a uniform and level substrate**

WHY FLUTE FILL?

- Premium, rigid EPS core molded in a range of densities to provide a variety of compressive strengths to meet project specifications and requirements
- Energy and costs savings
- Dimensional stability
- Moisture resistant due to EPS closed-cell structure
- EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs

Sizes

- Custom fabricated to fit your flute profile
- Available in either square or tapered edges
- Length: 4 ft., 8 ft.
- Density - 1.0, 1.25, 1.5, and 2.0 lb/ft3



WWW.CELLOFOAM.COM
800-468-3626

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CODE APPROVALS

- **ASTM C578,** Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation
- Underwriters Laboratory Listed**, UL ER7260-01**
- UL classified **TGFU.R7260** for ballasted, and mechanically attached roofing assemblies

EXPANDED POLYSTYRENE TYPICAL PHYSICAL PROPERTIES

Cellofoam® EPS Typical 1 Physical Properties		Units	ASTM Test	ASTM C578 Type			
				Type I	Type VIII	Type II	Type IX
Density (Nominal)		lb/f^3	C303 or D1622	1.0	1.25	1.5	2.0
Density (Minimum)		lb/f^3		0.90	1.15	1.35	1.80
Thermal Resistance							
R-Value^2	**at 25 °F**	(°F ft^2 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.

*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.