



EIFS Insulation Board & Architectural Shapes

**Premium EPS Insulation Board for Exterior Insulating & Finishing Systems (EIFS)
by Cellofoam® Building Insulation Products**

What is Cellofoam® EIFS?

Cellofoam® EIFS Insulation Board is a lightweight, closed cell, rigid foam insulation specifically manufactured from expanded polystyrene (EPS) to EIFS system requirements. Both durable and flexible, Cellofoam® EIFS can withstand large temperature change as well as reasonable structure movement without damage to the strong outer surface finish. Pre-cut drainage channels are optional. Most Cellofoam® EIFS Insulation Board is manufactured in flat boards for OEM systems, we also produce a wide variety of EIFS architectural shapes which may be viewed in our shapes catalogue.



The Cellofoam® Difference™

Maximum Bonding: Because maximum bonding ability is critical, Cellofoam® EIFS is manufactured with a smooth, textured surface compatible with many types of adhesives and exterior finish coats to ensure a long-lasting and structurally sound wall system.

Code Approvals: Underwriters Laboratory listed, UL ER7260, for exterior insulation and finishing systems (EIFS). Please consult local building codes for system requirements.

Stable R-value: The R-value of EPS is permanent because the only gas in EPS is air. Unlike Polyiso or XPS whose blowing agents outgas and therefore lose R-value, EPS R-values do not degrade over decades of use.

Moisture Resistant: Cellofoam® EIFS breathes, is quick drying, and does not readily absorb moisture from the air. The passage of moisture as water vapor through EPS reduces the risk of moisture damage to the wall or the peeling of exterior material.

Premium Quality: Meets or exceeds ASTM E2430 and C578 specs, with excellent dimensional stability & compressive strength.

Environmentally Friendly: Cellofoam® EIFS EPS contains no formaldehyde or ozone-depleting CFCs or HCFCs. It is 100% recyclable and may contain recycled material.

Manufactured to Your Needs: Cellofoam® EIFS Insulation Board is manufactured in 24 x 48 inch boards with thicknesses from 1 to 6 inches. Most EIFS systems require Type I (1.0 pcf) EPS although ASTM C578 nominal densities up to 2.0 pcf are available with EIFS System approvals.

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



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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.