

QUALITY EPS PRODUCTS FOR OVER 40 YEARS

Exterior Insulation and Finish Systems (EIFS) are lightweight, highly insulating wall claddings that give designers an unrivaled range of aesthetic and performance options. The smooth outer surface of an EIFS, combined with decorative finishes available in thousands of colors and textures, provide a design palette unmatched by any other wall cladding system. EIFS are cost-effective, and they can bring style and beauty to everyday structures. EIFS are used on a wide range of commercial, institutional, and residential buildings. They can be applied over steel stud walls, wood frame construction, or masonry. EIFS can also be used to reclad existing buildings to create a refreshed appearance and substantially upgraded insulation value. For design professionals, it is important to know that EIFS are systems that can be configured in many ways. Decisions made in the design stage impact the appearance, properties, and long-term performance of EIFS claddings.

## *SHELTERFOAM - EPS PHYSICAL PROPERTIES*

DESIGN VALUES		ASTM C578 <sup>1</sup>				
		ASTM #	TYPE I	TYPE VIII	TYPE II	TYPE IX
NOMINAL DENSITY (description / classification name)	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	C-303	1.00 (16.0)	1.25 (20.0)	1.50 (24.0)	2.00 (32.0)
MINIMUM DENSITY (as per ASTM standards)	lb/ft <sup>3</sup> (kg/m <sup>3</sup> )		0.90 (14.4)	1.15 (18.4)	1.35 (21.6)	1.80 (28.8)
R-VALUE (per inch) THERMAL RESISTANCE	@ 25 deg. F @ 40 deg. F @ 75 deg. F	C-518	4.35 4.17 3.85	4.55 4.25 3.92	4.76 4.55 4.17	5.00 4.76 4.35
COMPRESSIVE RESISTANCE @ 10% DEFORMATION	Min. psi	D-1621	10.0	13.0	15.0	25.0
FLEXURAL STRENGTH	Min. psi	C-203	25.0	30.0	35.0	50.0
WATER VAPOR PERMEABILITY	Max. Perm. (per inch)	E-96	5.0	3.5	3.5	2.5
WATER ABSORPTION (by total immersion)	% by Vol. maximum	C-272	4.0%	3.0%	3.0%	2.0%
DIMENSIONAL STABILITY	% Change, maximum	D-2126	2.0%	2.0%	2.0%	2.0%
OXYGEN INDEX	Volume %	D-2863	24.0%	24.0%	24.0%	24.0%
FLAME SPREAD <sup>2</sup>	~~~	E-84	< 20	< 20	< 20	< 20
SMOKE DEVELOPED <sup>2</sup>	~~~	E-84	150 - 300	150 - 300	150 - 300	150 - 300

<sup>1</sup> See ASTM C-578 Standard for test methods and complete information

<sup>2</sup> See ASTM E-84 Standard for test methods and complete information