

## Product Data Sheet Exterior Insulated Finish Systems (EIFS)

### EIFS WALL BOARD

ABT Foam is recognized as an industry leader in producing high quality expanded polystyrene (EPS) foam for Exterior Insulated Finish Systems (EIFS). ABT Foam produces flat sheets of EIFS wall boards in all thicknesses specified by architects and EIFS system manufacturers. ABT's EIFS wall board panels are manufactured to meet or exceed ASTM and industry standards. ABT Foam is approved to produce wall board and moldings for all major brands of synthetic stucco system manufacturers.

ABT Foam is dedicated to providing our customers with the finest quality products and service available. We are committed to the industry with the highest standards in manufacturing and quality control. All EIFS wall boards produced by ABT Foam is third party certified for quality assurance by RADCO, Listing 1182-88.

### ARCHITECTURAL SHAPES AND MOLDINGS

ABT Foam offers creative and innovative custom designed EPS shapes and moldings. With the latest technology and state of the art equipment we can design, create, and produce moldings to meet the architect and building owner specifications. ABT Foam provides customers with professionally done CAD drawings for contractors, architects, and building owners approvals prior to shipment.

### EPS FOAM INSULATION

Expanded polystyrene (EPS) is a closed cell, light weight, resilient foamed plastic insulation. EPS is able to withstand the abuse of temperature cycling and assuring long term performance. EPS has been an innovative building material since the 1950's and is recognized as a mainstream insulation and building material. EPS is an ideal choice for green building designs offering environmental advantages that can maximize energy efficiency.

### ABT FOAM CAD DESIGN CENTER

- Window and Door Arches
- Crown Moldings
- Dental Moldings
- Decorative Bands
- Columns With Base and Caps
- Fascia Molding
- Quoins
- Surrounds
- Signage

### EPS ENVIRONMENTAL IMPACT

EPS insulation is an inert, organic material produced from petroleum and natural gas by-products. EPS insulation does not contain CFC's, HCFC's, adhesives or formaldehyde. EPS foam insulation provides no nutritive value to plants, animals, or micro-organisms. It will not rot and is highly resistant to mildew and mold resistant (Tested in accordance with ASTM C1338 "Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings).

### LONG TERM INSULATION VALUE

R-value means the resistance to heat flow. The higher the R-value the greater the resistance to heat flow. The thermal performance of EPS insulation, as with any insulation product, depends upon the correct installation using good building practice. When properly installed, the R-value of EPS insulation remains constant for the life of the application. This is because the closed cell structure of EPS only contains air. As a result, the R-value of EPS insulation provided for each product type may be used as a design value without any adjustment for age.

### TEMPERATURE CYCLING

EPS is able to withstand the riggers of temperature cycling assuring long term performance. In a series of tests conducted by the Dynatech Research Development Co., Cambridge, MA, core specimens removed from existing freezer walls, some as old as 16 years, demonstrates EPS withstands freeze-thaw cycling without loss of structural integrity or other physical properties.





Typical Physical Properties of EPS - ASTM C-578	Unit	Type I
Nominal Density, lb./ft	(pcf)	1.0
Density Minimum, lb./ft	(pcf)	0.90
Design Thermal Resistance per 1" (inch) of Thickness (R-value)	75° F	3.85
Compressive Strength @ 10% Deformation	(psi)	10.0 - 14.0
Flexural Strength	(psi)	25 - 30
Water Vapor Permeability - Perm Inch	perm. In.	2.0 - 5.0
Moisture Absorption	vol.	Less than 4.0
Oxygen Index	Percent	24.0
Flame Spread		Less than 25
Smoke Developed		Less than 450
ABT Foam, LLC - RADCO Certification No.		#1182-88

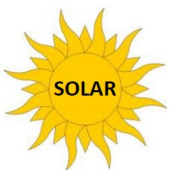
**Caution:** Expanded Polystyrene (EPS) contains a flame retardant. However, it should be considered flammable and should not be exposed to any source of combustion. EPS insulation should be covered with a thermal barrier or otherwise installed in accordance with applicable building code requirements.

**Solvent Attack:** EPS is subject to attack by petroleum based solvents. Care should be taken to prevent contact between EPS and these solvents or their vapors.

**Storage:** EPS foam products must be stored flat on the original shipping runners, pallet or cartons. The material must be elevated above floor or ground level. If stored outdoors, must be covered with UV and waterproof covering. Do not store close to open flame.

**Ultraviolet Degradation:** Prolonged exposure to sunlight will cause slight discoloration and surface dusting of EPS insulation. The insulating properties will not be significantly affected under normal usage. EPS stored outside should be protected with a light-colored opaque tarpaulin.

"DISCLAIMER: The customer and the customer's architects, engineers, consultants and other professionals are completely responsible for the selection, installation, and maintenance of any product purchased from ABT FOAM, LLC., and EXCEPT AS EXPRESSLY PROVIDED IN ABT FOA'S STANDARD WARRANTIES, ABT FOAM MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY, DESIGN, MERCHANTABILITY, OR FITNESS OF THE PRODUCT FOR CUSTOMER'S APPLICATION. Copies of ABT FOAM'S standard warranties are available upon request."  
 ABT FOAM'S Trade Mark Products: Advanced Wrap™, DropSide™ and PreFur™



ABT Foam  
 1405 Industrial Drive • Statesville, NC 28625  
 Phone 704-873-9081 • Toll Free 866-634-6057 • Fax 704-873-908  
[www.abtfoam.com](http://www.abtfoam.com)



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