

E P S S P E C S H E E T

JOHNSON COUNTY FOAM

565 Airport Dr. Mansfield, TX 76063 (817) 477-5061

Benefits

- * Stable R-Value
- * Proven Performance
- * Environmentally Friendly
- * Moisture Resistant
- * Energy Efficient
- * Cost - Effective
- * Code Approvals
- * No CFC, HCFC, HFC Or Formaldehyde

Johnson County Foam assumes no obligation or liability for the information in this document.



Companies



Custom Made Shapes

Johnson County Foam uses Expanded Polystyrene (EPS) foam to cut all of our shapes. EPS is a non-toxic, white, hard, closed cell insulation material, and has a Class 1 flame spread of 25 or less. Once a shape is cut, a balance alkali resistant treated, open weave fiberglass fabric, compatible with system materials, conforming to ASTM D578, and with a weight of no less than 4.8 oz. is applied. Then the surface is coated with a cement base-coat (100% acrylic-based compound formulated for field mixing with Portland cement 1:1 by weight) hat is extremely sturdy and durable when dry. These shapes are then ready for installation and finishing.

EXPANDED POLYSTYRENE (EPS) PROPERTIES & SPECIFICATIONS

Property	Units	ASTM Test	Density (pcf)			
			1.0	1.25	1.5	2.0
Thermal Conductivity	at 25F BTU/(hr.)	C177 or	0.23	0.22	0.21	0.20
K Factor	at 40F (sq. ft.) (F/in.)	C518	0.24	0.235	0.22	0.21
	at 75F		0.26	0.255	0.24	0.23
Thermal Resistance	at 25F per inch		4.35	4.54	4.76	5.00
Values R	at 40F thickness		4.17	4.25	4.55	4.76
	At 75F		3.85	3.92	4.17	4.35
Strength Properties						
Compressive 10% Deformation	psi	D1621	10-14	13-18	15-21	25-33
Flexural	psi	C203	25-30	32-38	40-50	55-75
Tensile	psi	D1623	16-20	17-21	18-22	23-27
Shear	psi	D732	18-22	23-25	26-32	33-37
Shear Modulus	psi		280-320	370-410	460-500	600-640
Modulus of Elasticity	psi		180-220	250-310	320-360	460-500
Moisture Resistance						
WVT	perm. In.	C355	1.2-3.0	1.1-2.8	0.9-2.5	0.6-1.5
Absorption (vol.)	%	C272	Less than	Less than	Less than	Less than
Capillarity			none	none	none	none
Coefficient of Thermal Expansion	in./(in.)(F)	D696	.000035	.000035	.000035	.000035
Maximum Service Temperature F						
Long-Term			167	167	167	167
Intermittent			180	180	180	180

INSTALLATION:

- 1: Apply the foam-molding flat against the wall surface
- 2: Apply a primer-adhesive. (Example: Tiefs Base Adhesive, Dryvit Adhesive, or equivalent) to the back of the foam molding.
- 3: Apply the foam molding to the wall surface and adjust its position as needed. Larger moldings may require temporary support until the adhesive has dried. Tape or masonry nails are often used, and additional adhesive applied to the substrate may also help. To join lengths ends are simply joined end-to-end. We recommend reinforcing the joint with fiber mesh and more primer – adhesive.

IMPORTANT: The foam shapes should not be left unfinished. They must be painted, sealed, and/or coated.

To Coat: Always use an acrylic bonding agent. (Example: Tiefs Base Adhesive, Dryvit, or similar)

To Paint: Use a high-quality acrylic paint; other types of paint may eat away the foam.

To Glue: For adhesives we recommend Enerfoam or a similar glue designed specially for Styrofoam.

CAUTIONS:

Johnson County Foam shapes should never be used for structural purposes; they are intended for decoration only. However, the foam can be used for both interior and exterior applications.

Installation of any foam should not interfere with the functions of windows, doors, or exits. Metal or wood framing should support any shapes that need to be structurally supported for weight bearing purposes. These shapes are not viable as a primary weather barrier, and it is important to consider water drainage when you implement your design. Drip ledges are a common feature of many of our cornice and trim shapes.

It is important to comply with all building codes and specific conditions pertinent to your job site. These conditions tend to vary from location to location. As a result, JCF suggests that an appropriate professional such as an architect or engineer should make any design decisions.

The customer is responsible for determining what information contained in this document is useful for their application.