

FALCON FOAM®

*Economical Expanded Polystyrene (EPS)
Multi-Purpose Foam*



Falcon Foam® Physical Properties

(Specification Reference: ASTM-C578-92a)

Property	Units	ASTM Test	Type I	Type VIII	Type II	Type IX
Density, Nominal	(pcf)	C303 or D1622	1.00	1.25	1.50	2.00
Thermal Conductivity	at 25°F BTU/(hr.)	C177 or	0.23	0.22	0.21	0.20
K Factor	at 40°F (sq. ft.) at 75°F (F/in.)	C518	0.24 0.26	0.235 0.255	0.22 0.23	0.21 0.23
Thermal Resistance Values	at 25°F per inch at 40°F thickness at 75°F	—	4.35 4.17 3.85	4.54 4.25 3.92	4.76 4.55 4.17	5.00 4.76 4.35
Strength Properties						
Compressive 10% Deformation	psi	D1621	10-14	13-18	15-21	25-33
Flexural	psi	C203	25-30	30-38	40-50	50-75
Tensile	psi	C1623	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	E96	2.0-5.0	1.5-3.5	1.0-3.5	0.6-2.0
Absorption (vol.)	%	C272	<4.0	<3.0	<3.0	<2.0
Capillarity	—	—	none	none	none	none
Coefficient of Therm. Expansion						
	in./in.(F)	D696	0.000035 for all densities			
Maximum Service Temperature						
Long-term	°F	—	167°F	167°F	167°F	167°F
Intermittent		—	180°F	180°F	180°F	180°F
Flame Spread up to 6" thickness		E84	Less than 25 for all densities			
Smoke Development up to 6" thickness		E84	Less than 450 for all densities			

FALCON FOAM offers an economical way of increasing thermal resistance in multiple applications.

When applied throughout the building structure, FALCON FOAM Insulation creates a thermal barrier that helps reduce heating and cooling requirements and improves occupant comfort throughout the year — year after year. Some types of conventional construction, using stud walls and batt insulation, can leave up to 20% of the wall area uninsulated. FALCON FOAM Insulation is applicable for interior and exterior applications. This improved thermal envelope increases the total R-value of the structure and improves occupant comfort. Durable yet lightweight, FALCON FOAM Insulation is easily cut and installed with minimum waste.

Installation

FALCON FOAM Insulation must be installed over adequately braced framing or wall structure in accordance with local building codes. FALCON FOAM Insulation can be adhered mechanically or with approved adhesives.

Compliance

When applied within code requirements, FALCON FOAM Insulation meets or exceeds ASTM Standard C-578-92a.

- Adds greater value to structure with minimal cost
- Use for new construction, remodeling, do-it-yourself, and commercial applications
- Provides firm, level backing for compatible product installation
- Moisture resistant
- Creates thermal envelope for improved heating/cooling efficiency and occupant comfort
- Lightweight for ease of handling and installation
- Available in a variety of thicknesses to meet your specific requirements
- Superior cushioning properties along with unlimited design flexibility for all of your packaging needs
- Cost effective and unique properties make Falcon Foam a perfect soil substitute in road construction

Product Availability

Size	
FALCON FOAM Insulation All bundles stretch wrapped	1" x 24" x 96"
	1" x 48" x 96"
	1½" x 24" x 96"
	1½" x 48" x 96"
	2" x 24" x 96"
	2" x 48" x 96"

Caution: Combustible. FALCON FOAM Insulation will ignite if exposed to fire of sufficient heat and intensity, although it does contain a flame-retardant to inhibit ignition from small fire sources. During shipping, storage, installation and use, this product should not be exposed to open flame, or other ignition sources. See other Atlas Falcon Foam Insulation literature for more detailed product and application data.



FALCON FOAM
A DIVISION OF ATLAS ROOFING CORPORATION

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