

hfc-free "green" expanded polystyrene insulation

EXPANDED POLYSTYRENE FOR Residential Building Applications



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Residential Building

Expanded Polystyrene Insulation



Falcon Foam leads the residential building industry with products that are environmentally friendly, while maintaining high LTRR values. For almost any interior or exterior sheathing application, Falcon Foam has the right product for your needs. Our

nationwide presence means you'll always get your full order on time, every time.

Expanded Polystyrene Sheathing

2

Choose Plain, Poly or Foil facing. Plain (unfaced) Thermal Star Sheathing is the most economical foam insulation available. The film facer provides a rugged and durable insulation board that stands up better to jobsite handling and abuse. The foiled facings offer a reflective surface. When used in conjunction with a 3/4" airspace, it can provide an additional 2.77 R-value. Foilized facing can be provided on one or both sides of the product.



ing Applications Insulation

Expanded Polystyrene For EIFS

1

FALCON FOAM Insulation is a cost-effective insulating substrate for Exterior Insulation and Finish System (EIFS). Compatible with virtually all exterior insulation systems, FALCON FOAM Insulation can be custom cut to meet unique architectural designs while substantially increasing the thermal efficiency of the structure. Stable R-value, moisture resistance and ease of handling make FALCON FOAM Insulation the ideal for new construction and retrofit applications.

Interior Expanded Polystyrene Sheathing

Today's homeowner is making the most of available living space by converting unused basement areas to recreation rooms, home offices and workshops. Falcon Foam INSUL-PANEL® insulation adds comfort to your basement project without using expensive materials or sacrificing valuable space.

3



1 EXPANDED POLYSTYRENE INSULATION FOR EIFS

Falcon Foam for Exterior Insulation and Finish Systems (EIFS) is a cost-effective insulating substrate for exterior wall finishes. Compatible with virtually all exterior insulation systems, Falcon Foam EIFS Flat Insulation is light weight, easy to handle, and moisture resistant. Use of Falcon Foam EIFS Flat Insulation will substantially increase the thermal efficiency of the building structure.

1 MOLDED WATER MANAGEMENT BOARD

Falcon Foam Molded Water Management Board is a cost-effective insulating substrate for exterior wall finishes. Compatible with virtually all exterior insulation systems, Falcon Foam Molded Water Management Board is manufactured with a unique drainage system to provide a means of drainage between the EIFS system and the building substrate.

2 PLAIN SHEATHING

Choose Plain, Polypropylene or Foil Facing. Plain (unfaced) ThermalStar® Sheathing is the most economical foam insulation available. Falcon Foam Expanded Polystyrene Plain Sheathing can be manufactured to a variety of sizes to meet building requirements.

2 THERMALSTAR® FANFOLD

ThermalStar Fanfold has the same advantages as our ThermalStar Sheathing, such as a limited thermal warranty and foil or poly film facers. Plus, ThermalStar Fanfold hinges are cut, not crimped, giving the installer a level foundation which is key for a professional style siding application.

1 SPECIAL SHAPES

Falcon Foam Special Shapes for Exterior Insulation and Finish Systems (EIFS) is a cost-effective insulating substrate for exterior wall finishes. Compatible with virtually all exterior insulation systems, Falcon Foam Special Shapes are custom cut to meet unique architectural designs, adding architectural aesthetics while increasing the thermal efficiency of the structure.

1 FABRICATED WATER MANAGEMENT BOARD

Falcon Foam Fabricated Water Management Board is a cost-effective insulating substrate for exterior wall finishes. Compatible with most exterior insulation systems, Falcon Foam Fabricated Water Management Board is manufactured with drainage channels per EIFS manufacturers' requirements to provide a means of drainage between the EIFS system and the building substrate.

2 THERMALSTAR® LAMINATED SHEATHING

ThermalStar (R) offers higher insulating value in a minimal space, while providing a smooth, level surface. Choose polypropylene or foil facing. The foiled facing offers a reflective surface. When used in conjunction with a 3/4" dead airspace it can provide an additional 2.77 R-value.

3 INSUL-PANEL®

Made from expanded polystyrene (EPS), INSUL-PANEL Insulation is a rigid insulation that delivers 2.9 R-value in a 3/4" thickness without the need for wood framing that takes away valuable living space. INSUL-PANEL Insulation provides an excellent backing for your wall paneling or drywall.

Warranty

20 YEAR LIMITED THERMAL WARRANTY

In response to valid concerns of building designers regarding thermal efficiency of various construction assemblies and the long-term insulating value of roof insulation, Falcon Foam (a division of Atlas Roofing Corporation) offers a 20-year, limited thermal warranty. The Falcon Foam EPS (Expanded Polystyrene) Limited Thermal Warranty places Falcon Foam EPS (Expanded Polystyrene) products above all others and supports the building owner, designer and contractor by backing up thermal performance. This warranty is available to the building owner at the time the building is completed and is transferable to any subsequent owner for the duration of the 20-year period.



GREEN Aspects Of Expanded Polystyrene

Falcon Foam leads the industry in the development of environmentally friendly Expanded Polystyrene (EPS) insulation products.

Expanded Polystyrene is made without ozone depleting chemicals like CFCs or HCFCs. Falcon Foam Expanded

Polystyrene insulation is 100% recyclable.

EPS production uses less than 0.1% of this country's petroleum. The raw material Falcon Foam uses to manufacture EPS insulation also incorporates recycled material.



Falcon Foam Typical Physical Properties

Properties	Units	ASTM Test	ASTM Designations						
			Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	NA
ASTM Density	pcf (min)	C 303 or D 1622	0.70	0.90	1.15	1.35	1.80	2.40	2.70
Common Designation	pcf		0.70	1.00	1.25	1.50	2.00	2.40	3.00
Thermal Resistance Values	at 25°	C 177 or C 518	3.45	4.20	4.40	4.60	4.80	4.80	NA
	at 40°	C 177 or C 518	3.30	4.00	4.20	4.40	4.60	4.60	4.70
	at 75°	C 177 or C 518	3.10	3.60	3.80	4.00	4.20	4.20	4.30
Compressive 10% Deformation	psi	D1621	5	10	13	15	25	40	NA
Flexural Strength	psi	C203	10	25	30	35	50	60	NA



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