



EPS

FanFold Insulation

(R+) EPS FFI

incorporates efficient and high performance Expanded Polystyrene Insulation with a strong Polymeric Facer laminated to 2 sides, making it a durable, resilient underlaying insulation board for new and remodeling siding projects. The hinged connected EPS insulation board, secures easily to the exterior framing and provides a level of ideal surface to directly install wood, vinyl or aluminum siding. **(R+) EPS FFI** is easy to use, quick to install and will provide immediate and long-term benefits to your project, including R-value.

Home re-siding provides one of the best returns of your investment of any type of home improvement project. **(R+) EPS FFI & EPS Contour Siding Backer**, two of FMI-EPS' products help assure that re-siding your home provides the ultimate in value for years to come.

They are both environmentally friendly and recyclable. EPS is constructed from inert organic materials and contains no CFC's, HFC's, HCFS's, Dyes or Formaldehyde. EPS Foam Insulation offers the **Best Insulating Value Per Dollar** than any material available today. You can pay more for other insulation products, but why?



Features

- + Using **(R+) EPS FFI**, helps eliminate costly tear-off and disposal of old siding.
- + Ideal for leveling old exterior wall surfaces to help insure that the new siding is installed flat and straight.
- + The "hinge-design" allows **(R+) EPS FFI** to lay flat over old exterior walls for improved appearance of the new siding.
- + FMI-EPS Insulation offers the best long-term R-value of all rigid insulation on the market today, even in the harshest climate conditions.
- + Reflective Facer option adds R-2.1 to system R-Value when installed with 3/4" dead air space and is available in 1/4", 3/8" and 1/2" thickness.
- + Provides a protective wind barrier over cracks and gaps in the old siding, around windows and doors to eliminate energy robbing drafts in all seasons.
- + Perforated Facers allow the EPS Insulation and exterior walls to breathe, preventing mildew, dry-rot and structural damage that can be caused by trapped moisture within wall cavities.
- + Compressive and Flexural strengths of **(R+) EPS FFI** a stable backing to the new siding, providing a more solid feel.
- + Fasten **(R+) EPS FFI** directly over the old siding. Then trim around protrusions using a utility knife and install new wood, vinyl or aluminum siding over **(R+) EPS FFI** per the siding manufacturer's instructions.



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Meets or exceeds physical and thermal property standards as established in ASTM C 578

Technical Data

Physical Properties	Units	ASTM Test	Type I	Type II
Compressive Resistance at 10% Strain Deformation (2" cube)	Min psi (kPa)	D 1621, C 165	10.0 (69)	15.0 (104)
Flexural Strength	Min psi (kPa)	C 203	25.0 (173)	35.0 (240)
Thermal Resistance (R-Value)* 75 ± 2° F (24 ± 1° C) 40 ± 2° F (4.4 ± 1° C)	Min R* for 1" thickness	C 17 7, C518	3.85 (0.67) 4.17 (0.0)	4.17 (0.73) 4.55 (0.77)
Thermal Conductivity (K-Value)* 75 ± 2° F (24 ± 1° C) 40 ± 2° F (4.4 ± 1° C)	BTU/(hr)(Sg.Ft.)(F/in.)	C 17 7, C518	0.260 (1.48) 0.240 (1.37)	0.240 (1.37) 0.220 (1.26)
Coefficient of Thermal Expansion	In./In.)(F)	D 696	0.000035	0.000035
Moisture Resistance Water Absorption by total immersion	% by volume Max	C 272	< 4.0	< 3.0
Water Vapor Permeability of 1" (25.4 mm) thickness max perm	Max perm/in (ng/PA*s*m²)	E 96	5.0 (287)	3.5 (201)
Oxygen Index	Min Volume %	D 2863	24.0	24.0
Dimensional Stability (Change in dimensions)	Max %	D 2126	2.0	2.0
Max. Service Temperature Long Term / Intermittent	F		167 / 180	167 / 180
Flame Spread Smoke Developed		E84-81A E84-81A	15 @ 6" 95-125	5 @ 4" 2-235
Density, minimum	Min lb/ft³ (kg/m³)	C 303	0.90 (15)	1.35 (22)
Density, nominal	lb/ft³		1.00	1.50

*R means resistance to heat flow. The higher the R-value, the greater the insulating power. Federal Trade Commission requires; using the R-Value publication at 75°F temperature when calculating R-Values of all insulations.

Typical R-Values of (R+) EPS FFI		
	Thickness	R-Values
R-Value at 75°F		
(R+) EPS FFI -25	1/4"	0.96
(R+) EPS FFI -375	3/8"	1.44
(R+) EPS FFI -50	1/2"	1.92
When used with 3/4 inch airspace add		R- 2.1

For those jobs that require extra strength:

- +Order higher density (1.5 pcf) EPS Core
- +More R-Value per inch
- +Greater Durability
- +Better wall leveling for improved appearance

(R+) EPS FanFold Insulation Specifications:

Density:

Nominal 1.0 pound per cubic foot (test method ASTM C-303)

R-Value:

3.85 / inch at 75°F (ASTM C-177, C-518)

Water Permeability:

5.0 perm/inch maximum (test method ASTM E-96) not a vapor barrier

Water Absorption:

Less than 4% by volume (test method ASTM C-272)

Flammability:

(R+) EPS FanFold is manufactured from modified Expandable Polystyrene which is treated with a fire retardant additive. This product is combustible and should not be exposed to an open flame or other ignition sources. This product should be installed in accordance with applicable building codes in your area.

Distributor:



The information in this bulletin is presented in good faith, and is believed to be accurate. All statements are made without warranty expressed or implied

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