

R-TECH FF PREMIUM FANFOLD WALL INSULATION

Description

R-Tech FF (Fanfold) is a high-performance, rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) with advanced polymeric laminate facers. R-Tech is available with factory adhered metallic-reflective facers, white facers or a combination of the two. The core of R-Tech is the same high-quality EPS as our InsulWall insulations and meets or exceeds the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. R-Tech has excellent dimensional stability, compressive strength and water resistance properties. R-Tech FF is an ENERGY STAR® qualified insulation and can contribute towards LEED® credits.

Uses

R-Tech FF has been used successfully for numerous commercial, industrial and residential applications. The following are examples of the many R-Tech FF applications:

- Siding Underlayment
- Basement Walls
- Cavity Walls
- Crawl Spaces
- Interior Walls
- Waterproofing Protection Board
- Gable-Ends

Advantages

- Labor Savings. R-Tech FF is available in 100 ft² (one-square) and 200 ft² (two-square) bundles, and is lightweight enough that the average contractor can carry 400 ft² at one time.
- Environmentally Friendly. R-Tech FF does not contain any ozone-depleting blowing agents, may contain recycled material and the foam core is 100% recyclable.
- Stable R-value. The product's thermal properties will remain stable over its entire service life. There is no thermal drift, so the product is eligible for an Insulfoam 20-Year Thermal Performance Warranty.
- Water Resistance. R-Tech facers provide a surface that is virtually impervious to moisture.
- Insect and Mold Resistance. R-Tech can be manufactured with an inert additive that deters termites and carpenter ants. R-Tech FF does not sustain mold and mildew growth.



- Jobsite Durability. With a polymeric facer on either side of it, R-Tech is extremely flexible and durable.
- Cost Effective. R-Tech is typically less expensive than comparable insulation products.
- Enhanced R-values. In certain applications, increased R-values can be obtained by placing the metallic reflective side of the R-Tech towards a dead air space. R-value gain is dependent on the amount of dead air space between the R-Tech and outer surface. R-value gains are based on the ASHRAE Handbook of Fundamentals. See the attached Effective R-value chart.

Sizes

R-Tech FF is packaged accordian-style and is available in one- and two-square bundles. R-Tech Fanfold is available in thicknesses of $^{1}/_{4}$ ", $^{3}/_{8}$ ", $^{1}/_{2}$ " and $^{3}/_{4}$ " and has a standard nominal density of 1 pcf. Individual panel sizes within the fanfold bundle are 2' x 4'. Different densities are available upon request.

Installation Recomendations

Please refer to the appropriate R-Tech application sheets for recommended installation procedures.



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Typical Physical Properties of R-Tech Fanfold*

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Proper	ty	Type I	Test Method
Nominal Density (pcf)		1.0	ASTM C303
C-Value (Condu BTU/(hr•ft2 (per inch)	,	.23 .24 .26	ASTM C518 or ASTM C177
R-value (Thermal Resi (hr•ft2•°F). (per inch)	stance)	4.35 4.2 3.9	ASTM C518 or ASTM C177
Compressive Strength (psi, 10% deformation)		13	ASTM D1621
Strength (psi)		33	ASTM C203
Dimensional Stability (maximum %)		< 2%	ASTM D2126
Water Vapor Transmission (perms)		< 1.0	ASTM E96
Absorption (% vol.)		< 1.0	ASTM C272
Capillarity		none	_
Flame Spread		< 20	ASTM E84
Smoke Developed		150 - 300	ASTM E84

^{*}Properties are based on data provided by resin manufacturers, independent test agencies and Insulfoam.

Effective R-values^a (metallic-reflective facer and dead air space)

R-Tech Thickness	Design Temp.	Effective R-value (R-Tech MR + Air Space)
	25° F	3.90
1/4"	40° F	3.85
	75° F	3.80
	25° F	4.50
3/8"	40° F	4.40
	75° F	4.30
	25° F	5.00
1/2"	40° F	4.90
	75° F	4.80
	25° F	6.10
3/4"	40° F	5.90
	75° F	5.70

a Effective R-values determined using InsulWall I. Higher density InsulFoam products will provide higher R-values. The type of construction application and the depth of the air space will also impact the actual Effective R-value.

b Requires 0.75"- 3.50" dead air space and the R-Tech MR facer towards the dead air space.