R-Tech® Fanfold Recover Board

Overview

R-Tech Fanfold Recover Board 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 EPS core meets or exceeds the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. R-Tech Fanfold Recover Board has excellent dimensional stability, compressive strength and water-resistant properties, and can contribute toward LEED® certification credits. R-Tech Fanfold Recover Board is manufactured by Insulfoam, a Carlisle Company.

Features and Benefits

- Labor-saving, accordion-style fanfold product allows installers to carry 400 square feet at one time versus 13 sheets of conventional 4' x 8' cover board
- Reduced fastening patterns and lightweight handling reduces labor costs by up to 50%
- Water resistant facers provide surface that is virtually impervious to moisture
- Reduces installed costs compared to wood fiber or gypsum by 40% to 60%
- Unique polymeric laminate facers permit PVC to be used without slip sheets
- Well-suited for single-ply mechanically attached or ballasted roofing applications with TPO, PVC or EPDM membranes. (Contact Versico Design Services for guidance)
- Convenient access with stocking at Insulfoam manufacturing facilities as well as Versico membrane production facilities
- UL code approval for numerous recover applications
- Approximately 4x higher R-value than ½" gypsum cover boards and 1.5x higher R-value than ½" wood fiber boards

Product Characteristics

- Panel thickness: ⅜", ½", ¾"
- Panel density: Available range 1 – 2 pcf
- Bundle size: 4' x 50' (200 ft.²)

Applications

R-Tech Fanfold Recover Board is designed as a recovery board for numerous commercial and industrial re-roofing applications.

Installation

Loose Laid

Install R-Tech Fanfold Recover Board with continuous side joints, and end joints staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. R-Tech Fanfold Recover Board should abut tightly against adjacent boards. Joints greater than ½" should be filled with the same insulation that is being used in the field of the roof. If R-Tech Fanfold Recover Board is being installed over an existing layer of insulation, all joints must be offset a minimum of 6" between layers.

Mechanically Attached

Install R-Tech Recover Board with continuous side joints, and end joints staggered so they are offset by a minimum of 12" from the end joints in adjacent rows. Insulation should abut tightly against adjacent boards. Joints greater than ½" should be filled with the same insulation that is being used in the field of the roof. If R-Tech Fanfold Recover Board is being installed over an existing layer of insulation, all joints must be offset a minimum of 6" between layers. Use an approved mechanical fastener of sufficient length to penetrate into or through the deck by the amount prescribed for the specific fastener. Fasteners should never be closer than 6" from the edges of the insulation board, and should be placed in a pattern to achieve the desired approval. Use appropriate insulation plates with the fasteners. Care must be taken to avoid over-driving or under-driving the fastener and plate assembly.

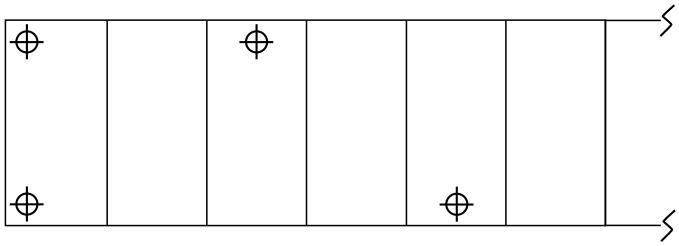
- One fastener is to be placed at each corner of the leading and trailing edges, and thereafter at a rate of one fastener every 12 square feet placed on alternating sides of the sheet.
- Fasteners are to be 6" from the board's edge.
- When used with dark colored membranes, R-Tech should be
- installed with the silver or metallic side facing up.

REVIEW CURRENT VERSICO SPECIFICATIONS AND DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS.

VERSICO ROOFING SYSTEMS

R-Tech Fanfold Recover Board

Versico-Approved Fastening Pattern



LEED Information

Post-industrial Recycled Content	Up to to 25%
Manufacturing Locations	Anchorage, AK Puyallup, WA Dixon, CA Chino, CA Phoenix, AZ Aurora, CO Mead, NE Lakeland, FL Prospect, CT

Typical Physical Properties of R-Tech*

Property	Type I	Type VIII	Type II	Type IX	Test Method
Compressive Strength (psi, 10% deformation)	10	16	20	28	ASTM D1621
Flexural Strength (psi)	33	40	50	70	ASTM C203
Water Vapor Transmission (perms)	< 1.0	< 1.0	< 1.0	< 1.0	ASTM E96

Typical Physical Properties of InsulFoam (foam core)*

Property	Type I	Type VIII	Type II	Type IX	Test Method
Nominal Density (pcf)	1.0	1.25	1.5	2.0	ASTM C303
C-Value (Conductance) BTU/(hr•ft²•°F)					ASTM C518 or ASTM C177
(per inch) @ 25° F	.23	.220	.21	.20	
(per inch) @ 40° F	.24	.235	.22	.21	
(per inch) @ 75° F	.26	.255	.24	.23	
R-value (Thermal Resistance) (hr•ft²•°F)/BTU					ASTM C518 or ASTM C177
(per inch) @ 25° F	4.35	4.54	4.76	5.00	
(per inch) @ 40° F	4.17	4.25	4.55	4.76	
(per inch) @ 75° F	3.85	3.92	4.17	4.35	
Compressive Strength (psi, 10% deformation)	10	15	20	25	ASTM D1621
Flexural Strength (psi)	25 – 30	32 – 38	40 – 50	55 – 75	ASTM C203
Dimensional Stability (maximum %)	< 2%	< 2%	< 2%	< 2%	ASTM D2126
Water Vapor Transmission (perms)	2.0 – 5.0	1.5 – 3.5	1.0 – 3.5	0.6 – 2.0	ASTM E96
Absorption (% vol.)	< 4.0	< 3.0	< 3.0	< 2.0	ASTM C272
Capillarity	none	none	none	none	
Flame Spread	< 20	< 20	< 20	< 20	UL 723
Smoke Developed	150 – 300	150 – 300	150 – 300	150 – 300	UL 723

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

VERSICO ROOFING SYSTEMS

A SINGLE SOURCE FOR SINGLE-PLY ROOFING

800.992.7663 • www.versico.com

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