R-TECH®

ENGINEERED FOR EFFICIENCY

Henry®

#1 CHOICE OF PROFESSIONALS®

DESCRIPTION

Henry® R-TECH® is an engineered rigid insulation consisting of a superior closed-cell, lightweight and resilient expanded polystyrene (EPS) core with a printed, and a metallic-reflective polymeric facer. R-TECH meets or exceeds the requirements of ASTM C578, Type I, Standard Specification for Rigid Cellular Polystyrene Thermal Insulation. In addition, R-TECH has excellent dimensional stability, compressive strength and water resistance properties. R-TECH is an ENERGY STAR® qualified insulation and can contribute towards LEED® credits.

USES

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

- Interior & Exterior Wall Insulation
- Siding & Stucco Insulation
- Foundation, Perimeter, Slab & Basement Insulation
- Freezers & Cold Storage

SIZES

R-TECH is available in 4' x 8' sheets with thicknesses of: 0.5", 1", 1.5", 2" and 3"

ADVANTAGES OF HENRY R-TECH

Environmentally Friendly.

R-TECH does not contain any dyes and the foam core is 100% recyclable.

Insect and Mold Resistance.

R-TECH is manufactured with an inert additive that deters termites and carpenter ants. R-TECH does not sustain mold and mildew growth.

Water Resistance.

R-TECH facers provide a surface that is virtually impervious to moisture.

Jobsite Durability.

With a polymeric facer on either side, R-TECH is extremely flexible and durable.

Stable R-value.

The thermal properties of R-TECH will remain stable over its entire service life. There is no thermal drift.

Cost Effective.

R-TECH is typically less expensive than other comparable insulation products, its factory laminated facer also offers installation savings.

Proven Performance.

Manufactured for decades using the proven chemistry.

Enhanced R-value.

In certain applications, increased R-value can be obtained by placing the metallic reflective side of R-TECH towards a dead air space. R-value gain is dependent on the amount of dead air space between R-TECH and outer surface. R-value gains are based on the ASHRAE Handbook of Fundamentals. See the “Effective R-value chart” on other side.

TYPICAL PHYSICAL PROPERTIES OF R-TECH*

Property		R-TECH	Test Method
Nominal Density (pcf)		1.0	ASTM C303
R-value (Thermal Resistance) (hr-ft2-°F)/BTU			ASTM C518
(per inch)	@ 25° F	4.35	
	@ 40° F	4.17	
	@ 75° F	3.85	
Compressive Strength (psi, 10% deformation)		10	ASTM D1621
Flexural 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
Flame Spread		20	ASTM E84
Smoke Developed		150 - 300	ASTM E84

EFFECTIVE R-VALUE** (metallic-reflective facer and dead air space)

R-TECH Thickness	Design Temp.	Effective R-value (R-TECH MR + Air Space) ***
0.5"	40° F	4.90
	75° F	4.80
1.00"	40° F	7.00
	75° F	6.70
1.50"	40° F	9.10
	75° F	8.60
2.00"	40° F	11.10
	75° F	10.50
3.00"	40° F	15.40
	75° F	14.50

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

**Effective R-value determined using R-TECH I. Higher density R-TECH products will provide higher R-value gains. The type of construction application and the depth of the air space will also impact the actual Effective R-value.

***Requires 0.75”- 3.50” dead air space and the R-TECH metallic-reflective facer towards the dead air space.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at henry.com or by emailing Henry Product Support at productsupport@henry.com or by calling 800-486-1278.

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