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 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.

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product’s suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry Company data sheets are updated on a regular basis; it is the user’s responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

Henry | #1 CHOICE OF PROFESSIONALS®

henry.com
productsupport@henry.com
800.486.1278

336 Coldstream Road, Kimberton, PA 19442