



R-VALUE AND INSULATION

THE CORE OF ENERGY EFFICIENCY

CURRENT FINDINGS FROM AN INDEPENDENT STUDY
OF COMMERCIAL INSULATED UPWARD ACTING DOORS

**Wayne[®]
Dalton**
COMMERCIAL DOORS & OPENERS

INDEPENDENT STUDY FINDINGS REVEAL THE TRUTH

A recent independent study comparing the energy efficiencies of commercial garage doors found that Wayne-Dalton's Thermospan® doors have the highest R-value in the industry.

The findings presented here come from a study conducted by Foam Enterprises, Inc.* and are qualified by standards mandated by ASHRAE.**

"R" ALSO MEASURES REPUTATION AS A MARK OF QUALITY BUILDING

We don't have to tell you what "R-value" means. But do you ever think about what it means to the businesses you build? Because energy efficiency and product performance can dictate costs for your clients in the long run, your attention to R-value can make quite a statement about the quality of the work you do.

Energy loss makes heating and cooling systems work harder, increasing operating costs. And as you know, insulation quality has a direct correlation to energy efficiency. So the higher the "R" you choose, the higher the quality of your project. And the more conscientious you look.

THERMOSPAN® HAS THE HIGHEST "R"

Since 1982, Wayne-Dalton's Thermospan® models have consistently held the highest R-values in the industry. We owe this outstanding performance to the ingenious composition of foamed-in-place polyurethane.

Polyurethane is optimal for insulation. Especially in a day and age where energy conservation is more important than ever. Resistant to heat transfer from either side, all polyurethane-based insulation reduces energy consumption with an air tight, closed-cell structure that stimulates ultra-low thermal conductivity. To maximize R-value potential of polyurethane, Wayne-Dalton combines the highest quality urethane foam type with optimal in-place foam densities.

HIGHER "R" MEANS

- ▶ more energy efficiency
- ▶ better product performance
- ▶ long-term operational savings

Tested Insulation Value Analysis

Premium Position

Insulation Type	Thickness	R-value	6	7	8	9	10	11	12	13	14	15	16	17	18
Wayne-Dalton 200	PUR	2.00"	17.59												
Wayne-Dalton 5200	PUR	2.00"	14.80												
Richard Wilcox T-175	PUR	1.75"	14.32												
Raynor Thermaseal Standard	PUR	1.68"	14.10												
Clopay 3600	PUR	1.75"	13.69												
Steelcraft TD 134	PUR	1.75"	13.03												
Haas 716	PUR	1.88"	12.92												
Raynor Tricare	EPS	3.00"	12.30												
OHD 592	PUR	2.00"	10.86												
Clopay 3200	EPS	2.00"	8.19												

Quality Position

Wayne-Dalton 150	PUR	1.375"	14.16												
Raynor Thermaseal Basic	PUR	1.45"	12.49												
Richard Wilcox T-150	PUR	1.375"	11.41												
Wayne-Dalton 5150	PUR	1.375"	10.96												
Wayne-Dalton 125	PUR	0.75"	10.79												
Haas 616	PUR	1.375"	9.64												
Upward TX 380	PUR	1.375"	9.54												
OHD 591	PUR	1.7"	9.32												
Clopay 3150	EPS	1.375"	6.11												

DATE	LABORATORY/TESTING AGENCY
March 1984	Lander Thermal conductivity Laboratory
June 1984	Lander Thermal conductivity Laboratory
July 1984	Dynatherm Engineering
August 1985	Architectural Testing Incorporated
July 1990	The Dow Chemical Company
January 1991	The Dow Chemical Company
March 1992	The Dow Chemical Company
May 1996	The Dow Chemical Company
January 2001	Foam Enterprises, Inc.

*PUR - Polyurethane ESP - Expanded Polystyrene

* [January 2001]. Find out more about Foam Enterprises at foamenterprises.com

** Find out more about the American Society of Heating, Refrigerating and Air-conditioning Engineers, Inc. at ashrae.org

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