

# DuPont™ Tyvek® ThermaWrap™

## FACT SHEET

### DuPont™ Tyvek® ThermaWrap™ Reflective Insulation

DuPont™ Tyvek® ThermaWrap™ is a non-woven, spun-bonded, non-perforated, white-colored polyethylene sheet with an aluminum coating and lacquer protection on one face. The membrane has a nominal thickness of .0087 inches (.220 mm) and a basis weight of 83 g/m<sup>2</sup> (2.5 oz/yd<sup>2</sup>).

#### Roll Sizes:

5' x 150' (750 sq. ft.)

9' x 100' (900 sq. ft.)

In addition to its insulation properties, DuPont™ Tyvek® ThermaWrap™ is recognized as a water-resistive barrier under ICC-ES Evaluation report ESR-1993.

DuPont™ Tyvek® ThermaWrap™ also aids in the thermal management of building wall systems in two ways:

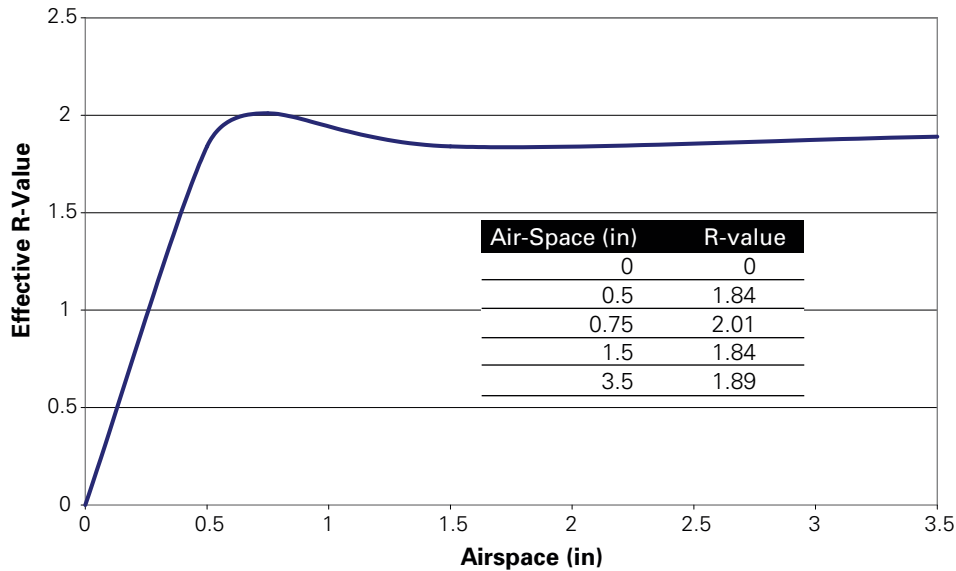
- Helps protect the insulation's installed R-value by reducing air leakage through the wall.
- When installed with an air-space the metallic surface provides thermal management which increases the wall's effective R-value up to R-2 as shown in detail below.
  1. There is a single metallic surface that has a nominal emissivity of below 0.2 as measured by ASTM C1371-04a Standard Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers.
  2. The metallic surface shall be installed facing a clear airspace created by the surrounding construction.
  3. Effective R-value is calculated based on the method detailed in Chapter 24 of the ASHRAE Handbook of Fundamentals as shown in the graph on the following page.



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DuPont™  
**Tyvek®**  
**ThermaWrap™**

**Calculated R-value per ASHRAE Handbook of Fundamentals**



**READ THIS BEFORE YOU BUY.**

**What You Should Know about R-Values.**

This chart shows the R-value of this insulation. R means resistance to heat flow. The higher the R-value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-value, it is essential that this insulation be installed properly.



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For more information about DuPont™ Tyvek® ThermaWrap® or other DuPont™ Tyvek® Weatherization Systems please call 1-800-44-Tyvek or visit us on the web at [www.Construction.Tyvek.com](http://www.Construction.Tyvek.com).