DUPONT BUILDING SCIENCE BULLETIN






Tyvek® Homewrap® Makes Your Insulation Work Better!

How insulation works

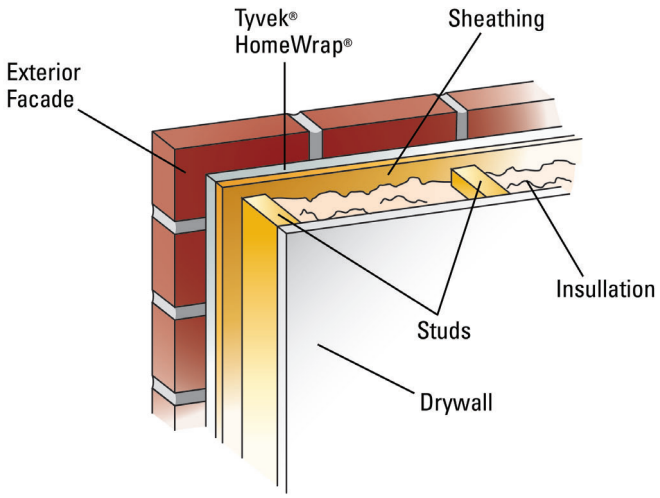
Trapped air is an excellent insulator—as long as the air is NOT MOVING. Good examples of trapped air acting as an insulator, keeping what's inside warm or cold, are the double pane windows in your home or the two container construction of a Thermos® bottle.

Wall insulation works the same way. As long as the air inside the insulation stays still and dry, the insulation works to its rated R-value. The result is a comfortable home.

But, an average 2,500 square foot home has more than a 1⁄2-mile of cracks and crevices in the wall cavity, and if the wind blows even a little (and it blows, on average, 8 mph across the US), air is forced into your home. Your heater or air conditioner will run more often to keep you comfortable, resulting in higher energy bills.

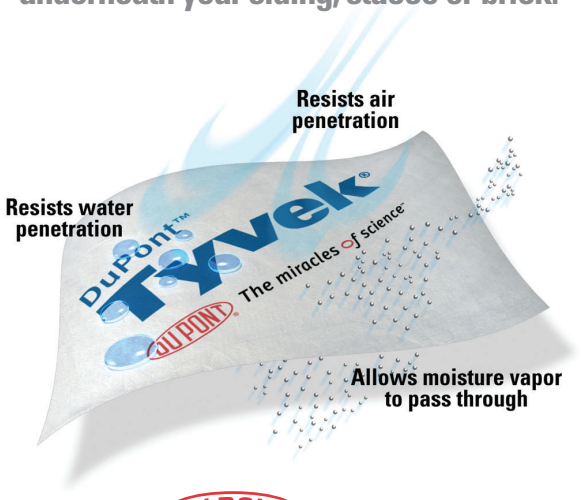
How Tyvek® HomeWrap® works

For 15 years, DuPont™ Tyvek® has made over 2 million homes more energy efficient and more comfortable. Tyvek® reduces the movement of air into your home and also helps keep water (from driving rain, for example) out of your walls. Tyvek® HomeWrap® can breathe, too (like Gore-Tex® clothing). This means that, if moisture does get inside your walls, Tyvek® lets it pass through to the outside. Helping to keep air and water out; letting moisture vapor pass through—it's the perfect way to keep you comfortable year round.



How can you prevent air and moisture from getting inside your home?

Use Tyvek® HomeWrap® weatherization system underneath your siding, stucco or brick.



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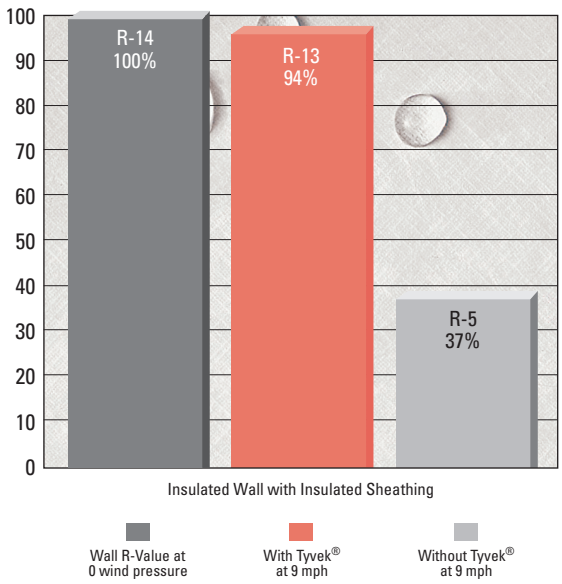
The miracles of science™

How Tyvek® and Insulation Work Together

The average wall has 3-1/2 inches of insulation which, under ideal conditions, has an installed R-value of R-14. (Installed R-value includes the whole wall system, with studs, sheathing board, insulation and siding, and takes wind movement into account.) Tests have shown that, when outside air moves into the wall through any tiny crack or crevice resulting from normal construction practices, the insulation can lose up to 63% of its installed R-value. Tyvek® HomeWrap® stops extra air from flowing into a wall.

Controlling the air coming into your walls is more important than adding more insulation to give you the performance and comfort you expect. Be sure to get the best insulating effectiveness and energy efficiency in your home.

INSTALLED R-VALUE AT 9 MPH WIND PRESSURE WITH AND WITHOUT TYVEK®



As shown in the chart, a home wrapped in DuPont™ Tyvek® will maintain 94% of its installed R-value, compared to only 37% for a home without Tyvek®.

Ask your builder or remodeler to install Tyvek® HomeWrap® from DuPont. It's a choice you can comfortably live with for years to come.

For more information please call 1-800-44-TYVEK

www.tyvek.com

DuPont™ Tyvek® HomeWrap®

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