Energy Efficiency
for your home





Vignette® window shades, made from looped, overlapping fabric, bring style and extra elegance to every room.

On beautiful days your open **windows** bring gentle breezes, sights, and sounds into your home. But on harsh days with blazing heat or bone-chilling cold you want protection, and a closed window can't provide that alone. Adding energy-efficient window treatments can be the most effective investment you make to control your utility bill. And while you're doing what's practical, Hunter Douglas can help you do what's stylish, adding long-lasting value to your home.

understanding R-value

Building materials are assigned an R-value according to the product's ability to resist heat movement. The higher the R-value the better it insulates your home. Most windows have an R-value of 0.9 to 3.0 and can be responsible for 40 to 70 percent of heat or cold transfer for an entire home. The heat loss or gain at your home's windows is impacted by the following:

1. **Window properties.** Window frames are typically metal, wood or vinyl. The R-value of a metal frame can be 5 to 20 percent lower than a wood or vinyl frame window. A single layer of uncovered window glass has an R-value of 1.16. Advances in glass coatings and assembly methods are improving the energy performance of new windows, but a window's age, quality of construction, and the condition of sashes, weather stripping and caulking will impact how much air infiltrates or escapes your home.
2. **Window square footage.** Windows make up 20 percent of the typical home exterior and 40 percent in contemporary construction. Numerous large, uncovered windows can break your energy budget when they're on a cold north exposure in winter or a sun-saturated west wall in summer.
3. **Window coverings.** Heat moves towards cold. In the winter it's drawn to cold glass to escape your home (see illustration below). In the summer outdoor heat moves toward the windows of your air-conditioned home. The white exterior backing on all Hunter Douglas proprietary products reflects the sun. Using layers and cellular construction treatments at your windows can increase R-value by 1 to nearly 5 points. In extreme climates, that could save more dollars than you would spend to install windows with a higher energy efficiency.



best of the best in energy efficiency

All window coverings help defend your home against summer heat and winter cold. The design, materials and construction of the window coverings discussed here enable them to make a more significant contribution to energy efficiency.



Show Me the Savings

Energy efficient window treatments help you to:

- Cut heat loss in winter and increase your home's cozy comfort as they slow the escape of warm air. Window treatments act as insulation, covering glass to keep warm air inside (see illustration above).
- Cut infiltration of solar heat, the single largest contributor to the workload of your home's cooling system.
- Save money on utilities and save the natural resources used to generate energy.
- Save your interior fabrics, furnishings and woods from fading and deterioration.

1 **Duette® honeycomb shades,** developed in response to the energy crisis, increase energy values at the window by 25 to 175 percent, depending upon single, double or triple thickness in the air-trapping construction. Duette has earned the highest energy-efficiency rating in the industry and ranks as the nation's best-selling honeycomb shade.

Shades come in opaque, semi-opaque or sheer fabrics and more than 299 colors. For French and sliding doors, Duette with Vertiglide™ provides the same honeycomb construction with the shade's pleats oriented vertically. R-values for Duette reach as high as 4.8 for the triple honeycomb shades.*

2 **Vertical blinds** can increase window insulation by 37 to 123 percent and block 95 to 99 percent of ultraviolet (UV) light. Hunter Douglas offers fabric, vinyl and aluminum styles in various finishes, as well as products that combine the softness of suede with the strength of metal. Hundreds of colors, textures and embossed patterns are available. R-values reach as high as 3.92 for vertical blinds.*

3 **Vignette® shades** have the gentle look of a fine drapery, but are made of generously contoured folds of rich fabrics. They provide a 49 percent increase in window insulation value and block 99 percent of UV light. Vignette, which has an R-value of 2.63*, comes in 112 fabric/color options.

For all Hunter Douglas products with test results available, R-values range from 2.01 to 4.8. See **www.hunterdouglas.com** for a complete listing.

* when closed over double-glazed glass

Duette® window shades with PowerRise® allow the most energy-efficient shades to be operated by remote control.

ultraviolet light:
your home needs sunscreen

Sunscreen protects our skin from damaging ultraviolet (UV) **rays.** Window treatments can do the same for your home's interior. We love light-filled rooms, but UV rays will eventually fade floors, furniture, upholstery, draperies and treasured artwork. Homeowners need UV control, especially in winter when the sun reaches further into our rooms to damage:

- **Art.** While we like to look at artwork in natural light, UV exposure can destroy our treasures.
- **Textiles.** Prolonged exposure causes natural, undyed fabrics to yellow. It weakens fibers, making them look prematurely old and worn.
- **Wood.** Sunlight will fade the sections of wood flooring and sides of wood furniture that it reaches, creating uneven coloring. Wood grain can expand with UV exposure, sometimes splitting open due to heat and dryness.

Most Hunter Douglas products filter out at least 85 percent of UV rays when in use.* When closed there's 99 percent UV blockage with all the residential products in our Duette®, Luminette®, Silhouette®, and Vignette® lines — even our Palm Beach custom shutters.

We offer both stationary and moveable products that can cover arches, angles and skylights, while providing UV protection for your home.

* when closed over double-glazed glass



Shading for Summer Comfort

When heat is intense outdoors, solar gain is a consideration and energy talk turns to a product's shading coefficient (SC). The SC measures effectiveness at blocking solar heat. The lower the number. the better the product is at preventing heat gain. A standard double-pane window might have an SC of about .89, while the SC on a single-pane is about 1.0.

A window treatment that reduces heat by 80 percent has a shading coefficient of .20. For all Hunter Douglas products with test results available, shading coefficients range from .21 (reduces heat gain by 79%) to .61 (reduces heat gain by 39%). Products with the lowest and best shading coefficients* include Duette® honeycomb shades, many of our vertical blinds and our Palm Beach™ custom shutters.



Silhouette® window shadings ensure privacy and protection from damaging ultraviolet rays. At left, stylish Palmetto™, a Palm Beach™ custom shutter, controls light infiltration.



Vertical blinds offer privacy and light control along with gentle elegance.

Hunter Douglas window treatments can provide year-round savings on the cost of heating and cooling your home. Energy-efficient window coverings also protect fabrics and furnishings from damaging ultraviolet light.

Energy-efficient window coverings can be the most effective investment you make to control your utility bill and increase your home's comfort in extreme climates.

For more information and the name of your nearest local dealer, visit **www.hunterdouglas.com**

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window fashions

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