

New
for 2016!

ENERGY STAR® 2016 Requirements Northern Zone

Effective January 1, 2016



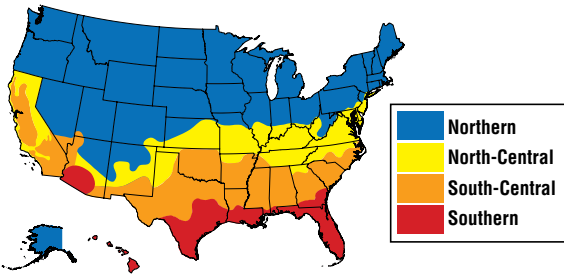
Meets Stringent
2016
ENERGY STAR®
**PERFORMANCE
REQUIREMENTS**



*Meeting the Most
Stringent Performance Requirements*



New ENERGY STAR 2016 Requirements for the Northern Climate Zone



When the new criteria for ENERGY STAR® Version 6.0 for residential windows, doors and skylights took effect on January 1, 2015 – the Northern Climate Zone of the U.S. was given an additional year before the increased performance requirements were implemented. This extension for the Northern Climate Zone allowed the industry adequate time to identify cost-saving measures to further reduce incremental costs for consumers.

Windows and patio doors that meet stringent ENERGY STAR requirements can help pay dividends on a daily basis. Heat loss and gain through windows and doors account for up to 50% of a home's heating and cooling needs. ENERGY STAR qualified products help homes maintain a more balanced and comfortable indoor climate while conserving energy costs and reducing fossil fuel consumption. It's good for consumers and good for the environment.

Our Window Technical Information Center provides fast and easy access to performance results. It's as easy as:

- 1 Visit www.alsidewindows.net
- 2 Choose your region
- 3 Select series and model
- 4 Click on the various glass packages for performance values

Or, simply click ENERGY STAR requirement and enter your zip code and select the window model to obtain the ENERGY STAR qualifying glass packages available.



A cleaner environment and improved home comfort with reduced energy consumption are the key goals of ENERGY STAR, a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency.



The National Fenestration Rating Council (NFRC) is a non-profit industry organization that is committed to providing accurate, fair and reliable testing data to help consumers and building professionals compare the energy performance of windows, doors and skylights.

Understanding ENERGY STAR Performance Requirements

To qualify for ENERGY STAR, windows shall have NFRC-certified U-Factor and, where applicable, Solar Heat Gain Coefficient (SHGC) ratings at levels which meet or exceed the minimum qualification criteria specified in the table below. In simple terms, U-Factor represents the rate of heat flow through the window product – the lower the U-Factor, the less energy is needed to heat a home. The SHGC represents the solar heat penetrating through the window – the lower the number, the better the energy conservation. Climates that rely heavily on air-conditioning will benefit from a window product that displays a low SHGC.

ENERGY STAR REQUIREMENTS FOR WINDOWS – NORTHERN CLIMATE ZONE RATINGS EFFECTIVE AS OF JANUARY 1, 2016

Climate Zone		U-Factor	SHGC
Northern	❄️	≤ 0.27	Any
North-Central	❄️☀️	≤ 0.30	≤ 0.40
South-Central	☀️❄️	≤ 0.30	≤ 0.25
Southern	☀️	≤ 0.40	≤ 0.25

OPTION A

Equivalent Energy Performance for Windows – Northern Zone Only

To qualify for ENERGY STAR V6.0, windows also may have NFRC-certified U-Factor and, where applicable, SHGC ratings at levels which meet or exceed the equivalent energy performance criteria specified in the table below. These criteria allow windows with energy performance equivalent to the prescriptive criteria to qualify in the Northern Zone. (Equivalent performance criteria are not applicable to the North-Central, South-Central, or Southern Zones or to doors or skylights.)

EQUIVALENT ENERGY PERFORMANCE FOR WINDOWS – NORTHERN CLIMATE ZONE RATINGS EFFECTIVE AS OF JANUARY 1, 2016

Climate Zone	U-Factor	SHGC
Northern	= 0.28	≥ 0.32
	= 0.29	≥ 0.37
	= 0.30	≥ 0.42

OPTION B

Air Leakage Performance Requirements

Air leakage in windows and doors also is measured with a performance rating. To qualify for ENERGY STAR, products shall have air leakage ratings at levels that meet or exceed the minimum qualification standards specified in the table below and adhere to specified labeling requirements.

AIR LEAKAGE REQUIREMENTS

Product	Air Leakage Rating
Window, Sliding Door or Skylight	≤ 0.3 cfm/ft ²
Swinging Door	≤ 0.5 cfm/ft ²

Aside Windows and Patio Doors are available with a variety of ClimaTech® insulated glass packages to meet or exceed ENERGY STAR performance requirements for 2016 in all four U.S. Climate Zones. Please see your Aside Sales Representative for specific recommendations.

For more information regarding 2016 ENERGY STAR requirements, visit www.energystar.gov/sites/default/files/ES_Final_V6_Residential_WDS_Spec.pdf