

# ENERGY STAR Qualification Criteria for Residential Windows, Doors, and Skylights

## Windows

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Northern*	≤ 0.27	Any	Prescriptive
	= 0.28	≥ 0.32	Equivalent Energy Performance
	= 0.29	≥ 0.37	
	= 0.30	≥ 0.42	
North-Central	≤ 0.30	≤ 0.40	
South-Central	≤ 0.30	≤ 0.25	
Southern	≤ 0.40	≤ 0.25	

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>

<sup>1</sup> Btu/h ft<sup>2</sup>·°F

<sup>2</sup> Solar Heat Gain Coefficient

\* The effective date for the Northern Zone prescriptive and equivalent energy performance criteria for windows is January 1, 2016.

## Doors

Glazing Level	U-Factor <sup>1</sup>	SHGC <sup>2</sup>	
Opaque	≤ 0.17	No Rating	
≤ ½-Lite	≤ 0.25	≤ 0.25	
> ½-Lite	≤ 0.30	Northern North-Central	≤ 0.40
		Southern South-Central	≤ 0.25

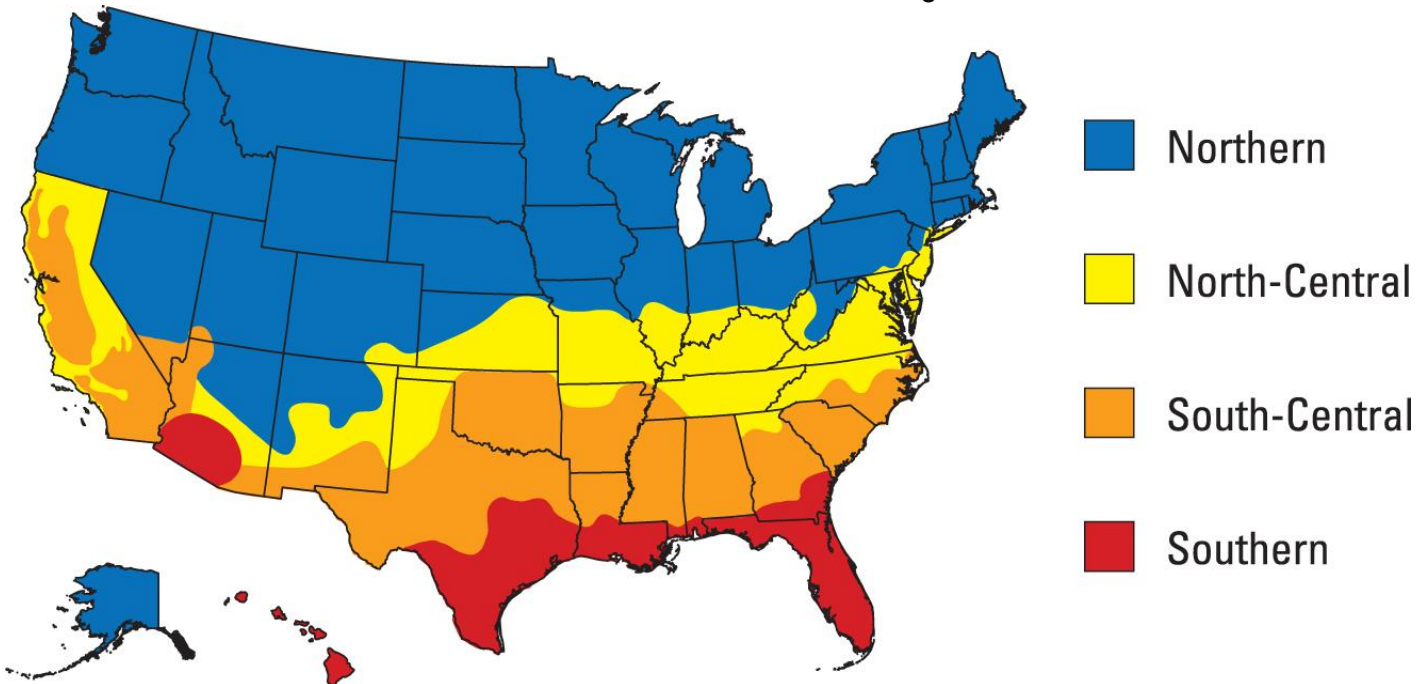
Air Leakage for Sliding Doors ≤ 0.3 cfm/ft<sup>2</sup>

Air Leakage for Swinging Doors ≤ 0.5 cfm/ft<sup>2</sup>

## Skylights

Climate Zone	U-Factor <sup>1</sup>	SHGC <sup>2</sup>
Northern	≤ 0.50	Any
North-Central	≤ 0.53	≤ 0.35
South-Central	≤ 0.53	≤ 0.28
Southern	≤ 0.60	≤ 0.28

Air Leakage ≤ 0.3 cfm/ft<sup>2</sup>



**Note:** A complete list of ENERGY STAR Climate Zones by state and county or, where applicable, zip code is available at [https://www.energystar.gov/index.cfm?fuseaction=windows\\_doors.search\\_climate](https://www.energystar.gov/index.cfm?fuseaction=windows_doors.search_climate).