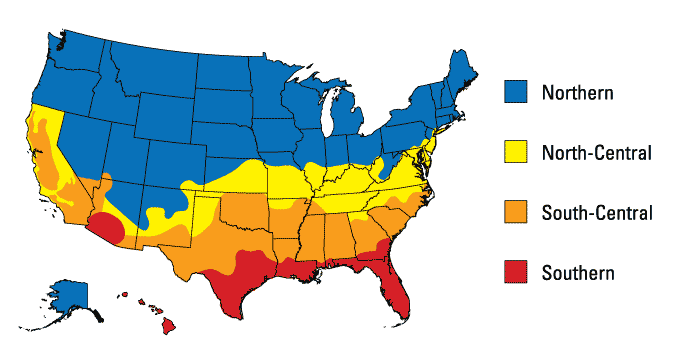
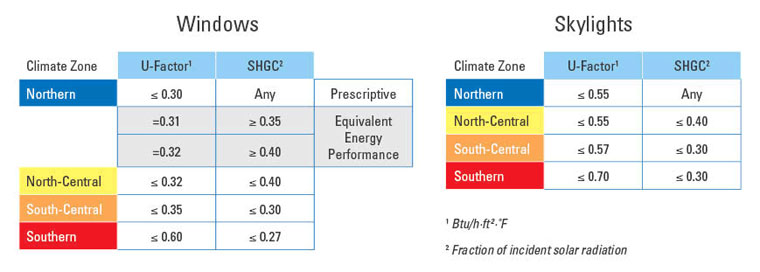
Windows, Doors, and Skylights performance Criteria

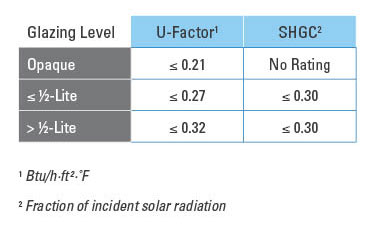
Windows and skylights protect you from the elements just like a winter coat. But like a winter coat, you should pick the windows and skylights that make the most sense for your climate. While some windows and skylights are better at keeping you warm, others excel at keeping you cool.

  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/Promotional_Map.pdf?947e-b68f) PDF[[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc4)

Performance criteria for windows and skylights are based on [these climate zones](http://www.energystar.gov/index.cfm?fuseaction=windows_doors.search_climate) and [ratings certified by the National Fenestration Rating Council (NFRC)](http://www.energystar.gov/index.cfm?c=windows_doors.pr_ind_tested).

  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/Window_Skylight_Criteria.pdf?947e-b68f) PDF[[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc5)

Doors are a little different. Many doors don't have any glass (like your front door), but even doors with lots of glass (like a sliding patio door) have lower glass-to-frame ratios than windows or skylights. This means doors can provide more insulation than a window or skylight can. Performance criteria for doors are based on the amount of glass they have (called glazing level) and [ratings certified by the National Fenestration Rating Council (NFRC)](http://www.energystar.gov/index.cfm?c=windows_doors.pr_ind_tested).

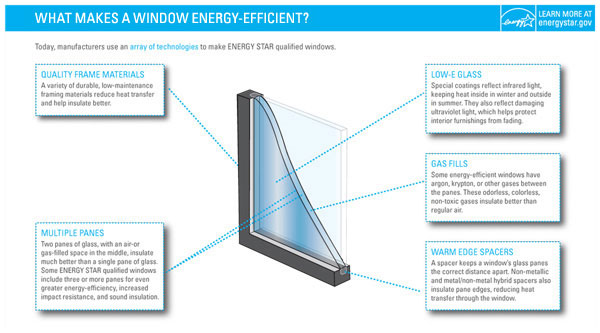
  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/Door_Criteria.pdf?947e-b68f) PDF[[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc6)

What do the different glazing levels look like?

Common Product Features

Many ENERGY STAR qualified windows, doors, and skylights have some or all of the product features detailed below. But these features are not required. Learn more about [what makes it ENERGY STAR](http://www.energystar.gov/index.cfm?c=windows_doors.pr_anat_window#whatMakes).

Anatomy of an Energy-Efficient Window

  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/EfficientWindows1000.jpg) [[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc2)

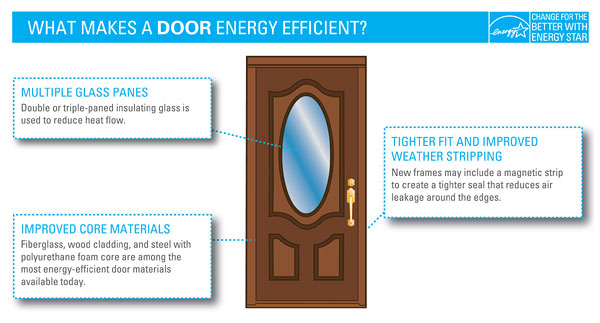
**Framing Materials**

ENERGY STAR qualified windows come in a variety of framing materials.

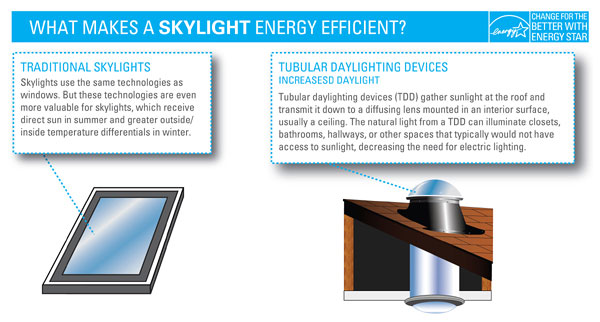
* **Fiberglass** frames are strong, durable, low maintenance, and provide good insulation. Fiberglass frames can be either hollow or filled with foam insulation.
* **Vinyl** frames are low maintenance and provide good thermal insulation. Sections may be hollow or filled with foam insulation. Wide vinyl sills may be reinforced with metal or wood.
* **Aluminum** frames are durable, low maintenance, recyclable, and typically have at least 15% recycled content. Frame design typically includes thermal breaks to reduce conductive heat loss through the metal.
* **Wood** frames are strong, provide good insulation, and are generally favored in historical neighborhoods. The exterior surfaces of many wood windows are clad (or covered) with aluminum or vinyl to reduce maintenance.
* **Combination** frames use different materials separately throughout the frame and sash to provide optimal performance. For example, the exterior half of a frame could be vinyl while the interior half could be wood.
* **Composite** frames are made of various materials that have been blended together through manufacturing processes to create durable, low maintenance, well-insulated windows.

To learn more about efficient window technologies, visit the [Efficient Windows Collaborative](http://www.efficientwindows.org/technologies.cfm) [Exit ENERGY STAR](http://www.energystar.gov/index.cfm?c=home.exit).

Anatomy of an Energy-Efficient Door

  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/EfficiencyDoors1200.jpg) [[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc1)

Anatomy of an Energy-Efficient Skylight

  
[Enlarge Image](http://www.energystar.gov/ia/products/windows_doors/images/EfficiencySkylights1200.jpg) [[D]](http://www.energystar.gov/index.cfm?c=windows_doors.longdesc3)