



## Why is Window Area so Important to Energy Code Compliance?



Commercial building

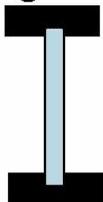
Windows typically have a higher U-factor than the rest of the building envelope so structures with high glazing areas are less likely to comply with the energy code.

Energy codes have traditionally forced buildings with high glazing areas to have higher insulation levels. In most energy codes, the glazing level is determined by the window-wall ratio.

The window-wall ratio is calculated as the gross window area divided by the gross wall area.

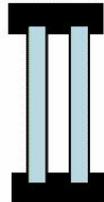
Window U-factors typically range from .2 to 1.2 and other building assemblies (e.g. walls, floors) U-factors typically range from .02 to .08. Using efficient windows decreases the energy consumption of the structure and therefore helps the project comply with the code.

Single Pane



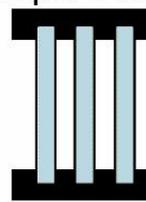
U = 1.05

Double Pane



U = 0.55

Triple Pane



U = 0.37

Types of window glazing. U-factors are approximate.