

Table of IECC Requirements for Window Selection in Ohio

Simplified Prescriptive Window Requirements for Compliance with the IECC for New Single-Family Residential Buildings in Ohio

Package ^a	Maximum Window U-Factor ^b
A	0.45
B	0.40
C	0.35
D	0.35

a. This table of prescriptive requirements is applicable to homes in which the ratio of the rough opening of windows to the gross wall area, expressed as a percentage, is 15%. For homes with glazing areas that are greater than 15%, please refer to Tables 502.2.4(4)-(6) in the IECC.

b. U-factors may be determined by calculating an area weighted average U-factor for all windows. For example, Area Weighted Average U-factor equals $((\text{Area}_1 \times U_1) + (\text{Area}_2 \times U_2)) / (\text{Total Area})$. The area weighted average must not exceed the maximum values in the selected path.


NOTES:

1. This table of window requirements is based upon the International Energy Conservation Code (IECC) and does not reflect any state-specific amendments to the IECC. The IECC specifies additional requirements for other parts of the building envelope not listed here, such as insulation for walls and ceilings.
2. This table applies to single-family, residential construction.
3. "Window" refers to any translucent or transparent material (i.e., glazing) in exterior openings of buildings, including skylights, glass doors, the glass areas of opaque doors, and glass block, along with the accompanying sashes, frames, etc.
4. Window area % is the ratio of the area of the rough opening of windows to the gross wall area, expressed as a percentage. Up to one percent of total window area may be exempt from the U-factor requirement.
5. U-factor is a number, generally between 0.2 and 1.20, that indicates the rate of heat loss (or gain) through a window. A lower U-factor demonstrates a greater resistance to heat loss and gain, i.e., better insulating value, of the window. This number is important for winter comfort.
6. Window U-factor must be determined from a National Fenestration Rating Council (NFRC) label on the product (see sample label below), or from a limited table of product "default" values in the IECC.
7. The code requires that windows be labeled in a manner to determine that they meet the IECC's air infiltration requirements; specifically, equal to or better than 0.30 cfm per square foot of window area (swinging doors below 0.50 cfm) as determined in accordance with AAMA/WDMA 101/I.S.2 (ASTM E 283).
8. The labeled product U-factor value should also be used in calculation procedures to properly size the home's HVAC equipment. The IECC requires the use of a computational procedure like ACCA Manual J to size equipment. Properly sized equipment will operate more efficiently and effectively and will save money up front because consumers can avoid paying extra for oversized equipment.

Look for the NFRC Label!



The most important value to look for is the U-factor

	World's Best Window Co. Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Argon Fill • Low E Product Type: Vertical Slider	
ENERGY PERFORMANCE RATINGS		
U-Factor (U.S./I-P)	Solar Heat Gain Coefficient	
0.35	0.32	
ADDITIONAL PERFORMANCE RATINGS		
Visible Transmittance	Air Leakage (U.S./I-P)	
0.51	0.2	
<small>Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. Consult manufacturer's literature for other product performance information. www.nfrc.org</small>		

For more information on energy efficient windows, go to the Efficient Windows Collaborative website at: www.efficientwindows.org

