

# IECC Compliance Guide to Windows Used for Replacement and Remodeling in Louisiana

Designed to Comply with the IECC Requirements for Existing Single-Family Residential Buildings in Louisiana

Code: 2000 International Energy Conservation Code (IECC)

First Edition

## How to Use This Guide

This guide is designed to meet the requirements of the IECC as it relates to Louisiana with respect to replacement windows and remodeling. Each parish is assigned to one of two packages (A or B), which vary according to the different climate zones in Louisiana.

### Step-by-Step Instructions

1. Use the color-coded map to locate the parish in which construction is taking place and find the package (A or B) associated with that parish.
2. Use the "Table of IECC Requirements for Windows Used for Replacement or Remodeling in Louisiana" (on the back of this sheet) to choose proper windows based upon the package selected in Step 1, above.
3. Replace the old windows or complete remodeling with windows that have U-factors and SHGCs less than or equal to the values for the selected path and meet the code's maximum air leakage requirements.

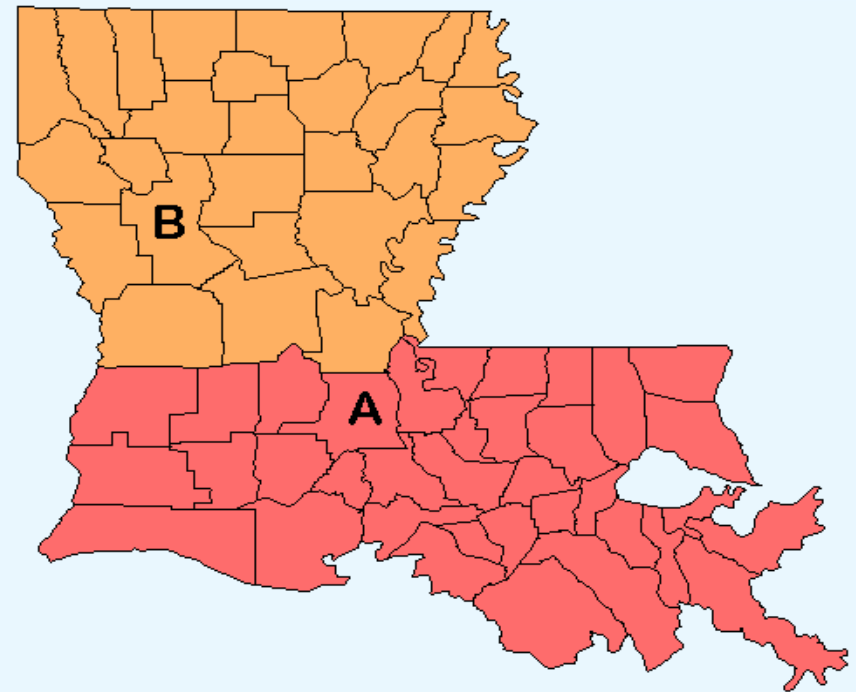
**Example:** If you are replacing windows in a home in Orleans Parish, found in Package A, you will comply with the IECC as it relates to Louisiana if your replacement windows have a maximum U-factor of 0.75, an SHGC of 0.40 and air leakage less than 0.3 cfm/sq.ft.

### Obtaining the IECC

The IECC is published by the International Code Council (ICC). For additional details on the IECC or to purchase a copy, contact the ICC or visit its website at [www.iccsafe.org](http://www.iccsafe.org).

### Limitations

This guide is an energy code (IECC based) replacement window and remodeling compliance aid for Louisiana and does not provide a guarantee for meeting the state energy code. The guide has not been customized to reflect any state-specific amendments to the IECC that Louisiana may adopt or has adopted. The window requirements in this guide, when used for remodeling, also depend upon the energy performance values of other envelope components in the home, i.e., insulation R-values in ceilings, walls, etc., not identified in this guide. For those values, refer to Tables in Chapter 5 of the IECC. For additional details on Louisiana's energy code, contact your local building code official.



## Louisiana Parishes by Package

A	0 - 1,999 HDD	B	2,000 - 3,499 HDD
Acadia	Plaquemines	Avoyelles	Madison
Allen	Pointe Coupee	Bienville	Morehouse
Ascension	St. Bernard	Bossier	Natchitoches
Assumption	St. Charles	Caddo	Ouachita
Beauregard	St. Helena	Caldwell	Rapides
Calcasieu	St. James	Catahoula	Red River
Cameron	St. John The Baptist	Claiborne	Richland
East Baton Rouge	St. Landry	Concordia	Sabine
East Feliciana	St. Martin	De Soto	Tensas
Evangeline	St. Mary	East Carroll	Union
Iberia	St. Tammany	Franklin	Vernon
Iberville	Tangipahoa	Grant	Webster
Jefferson	Terrebonne	Jackson	West Carroll
Jefferson Davis	Vermilion	La Salle	Winn
Lafayette	Washington	Lincoln	
Lafourche	West Baton Rouge		
Livingston	West Feliciana		
Orleans			

HDD = Heating Degree Days


# Table of IECC Requirements for Windows Used for Replacement or Remodeling in Louisiana

*Simplified Prescriptive Requirements for Compliance with the IECC for Window Replacement and Remodeling in Louisiana*

Package	Maximum Window U-factor	Maximum Window SHGC
<b>A</b>	<b>0.75</b>	<b>0.40</b>
<b>B</b>	<b>0.50</b>	<b>0.40</b>

"NR" means no requirement is specified in this package.

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




[www.efficientwindows.org](http://www.efficientwindows.org)

**Look for the NFRC Label!**  
The 2 most important values to look for are: **U-factor** and **Solar Heat Gain Coefficient (SHGC)**.

## NOTES:

1. This table of requirements for windows used for replacement or remodeling is based upon the International Energy Conservation Code (IECC) and does not reflect any state-specific amendments to the IECC. The IECC has requirements, in addition to those shown, for additions to existing homes.
2. Source of Requirements: 2000 IECC, Ch. 5, Section 502.1.5, 502.2.5, and Table 502.2.5.
3. This table applies to single-family, residential construction.
4. Remodeling projects permitted to use this guide are additions, other than sunroom additions, less than 500 square feet of conditioned floor area. The total area of fenestration products shall not exceed 40% of the gross wall and roof area of the addition.
5. Alternate compliance approaches must be used for additions greater than 500 square feet and/or 40% fenestration area.
6. This guide may also be used for conditioned sunroom additions that maintain thermal isolation; are not used as kitchens or sleeping rooms; and are served by a separate heating or cooling system or are thermostatically controlled as a separate zone of the existing system.
7. Replacement skylights shall have a maximum U-factor of 0.75 when installed in Package A. For Package B, (above 2,000 heating degree days), the maximum U-factor for a replacement skylight shall be 0.60.
8. "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.
9. Replacement refers to instances in which an entire new window unit is installed, including insert or pocket-type window replacements, which are commonly installed over an existing window frame.
10. 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 or gain, i.e., better insulating value, of the window. This number is important for winter comfort.
11. SHGC, or Solar Heat Gain Coefficient, is a number between 0 and 1 that indicates the fraction of radiation (heat) from the sun that is transmitted through the window: the lower the SHGC, the less the amount of solar radiation that is allowed to pass through the window and become unwanted heat in the summer. This number is critical for summer comfort.
12. Window U-factor and SHGC must be determined from a National Fenestration Rating Council (NFRC) label on the product (see sample label), or from a limited table of product "default" values in the IECC.

		<b>World's Best Window Co.</b> Millennium 2000+ Vinyl-Clad Wood Frame Double Glazing • Argon Fill • Low E Product Type: <b>Vertical Slider</b>	
<b>ENERGY PERFORMANCE RATINGS</b>			
U-Factor (U.S./I-P)		Solar Heat Gain Coefficient	
<b>0.35</b>		<b>0.32</b>	
<b>ADDITIONAL PERFORMANCE RATINGS</b>			
Visible Transmittance		Air Leakage (U.S./I-P)	
<b>0.51</b>		<b>0.2</b>	
<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>			

13. 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).
14. The labeled product U-factor and SHGC values 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 operates more efficiently and effectively and will save money up front because consumers can avoid paying extra for oversized equipment.