



TEXAS DEPARTMENT OF LICENSING AND REGULATION

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Industrialized Housing and Buildings

Technical Bulletin

IHB TB 04-01 – Labeling of Window and Door Assemblies

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The 2009 International Energy Conservation Code (IECC) requires labeling of window and door assemblies as verification of the following information for fenestration products: U-factor; solar heat gain coefficient (SHGC); and air leakage rates. Fenestration is defined by the codes as “skylights, roof windows, vertical windows (fixed or movable), opaque doors, glazed doors, glass block, and combination opaque/glazed doors.” Fenestration includes products with glass and non-glass glazing materials. Opaque doors are doors without glazing.

Labeling of all fenestration products is required to verify compliance with the energy requirements of the 2009 International Codes as indicated in the following paragraphs.

Section 303.1.3 of the IECC requires that fenestration products (windows, doors, and skylights) be labeled with the U-factor for the product. Where a fenestration product is not labeled, then the U-factor for the product will be determined by assigning a default U-factor in accordance with Tables 303.1.3(1) and 303.1.3(2) of the IECC. Section 303.1.3 of the IECC also requires that glazed fenestration products (windows, glazed doors and skylights) be labeled with the Solar Heat Gain Coefficient (SHGC) of the product. Where a fenestration product is not labeled, then the SHGC shall be assigned a default SHGC in accordance with Table 303.1.3(3) of the IECC.

In most cases default SHGC’s cannot be used for fenestration products in residential construction in the State of Texas. Section 402.5 of the IECC sets mandatory requirements for the maximum fenestration U-factors and SHGC’s that can be used in residential construction.

An example of a typical NFRC label that may be found on fenestration products to document the U-factor and SHGC may be found at <http://www.nfrc.org/fenestrationfacts.aspx>.

Sections 402.4.4 and 502.4.1 of the IECC also require prefabricated fenestration products to be **labeled** as in compliance with the allowable air leakage rates specified in section 402.4.2 of the IECC – these requirements are mandatory.

An example of a typical NFRC label that shows compliance with the air infiltration requirements of the IECC may be found at <http://www.nfrc.org/fenestrationfacts.aspx>. An example of a typical AAMA label that shows compliance with the air in-filtration requirements may be found at http://www.aamanet.org/upload/file/CMB-6-08_Certification_Brochure-NonDetailed.pdf.