

**NC Department of Insurance
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U-values and Solar Heat Gain For Fenestration

Code: 2002 Energy Code
Section: 102.5.2

Date: May 6, 2005

Question:

What values must be used for U-factor and solar heat gain coefficient (SHGC) if the fenestration product in the thermal envelope of a heated or cooled building is not labeled with a product U-factor and SHGC value?

Answer:

When a manufacturer has not determined product U-factor in accordance with NFRC 100 (National Fenestration Rating Council, Inc.) for a particular product line, compliance with the building envelope requirements shall be determined by assigning such products a default U-factor in accordance with Tables 102.5.2(1) and 102.5.2(2). When a SHGC is used for code compliance and a manufacturer has not determined product SHGC in accordance with NFRC 200 for a particular product line, compliance with the building envelope requirements shall be determined by assigning such products a default SHGC value in accordance with Tables 102.5.2(3).

Keywords:

Fenestration product rating, fenestration labeling