

Building Inspector:


Each new or replacement fenestration product must have a factory-installed National Fenestration Rating Council (NFRC) Label attached at time of final inspection. The installed U-Factor and SHGC values must be equal to or lower than the selected table values above (value may be area weighted average).

Reference the CF1R-ENV-01-E Fenestration Installation Certificate, and – if applicable - the CF2R-ENV-02-E Area Weighted Average Calculation Worksheet.

Required Forms:

- 2016-CF1R-ALT-01-E: Certificate of Compliance, Prescriptive Residential Alterations (sections A, D, E, F, and Declaration Statement)
- 2016-CF2R-ENV-01-E: Certificate of Installation, Fenestration Installation
- Optional: 2016-CF1R-ENV-02-E: Area Weighted Average Calculation Worksheet

An Example of the NFRC Label You Should Look for and the Numbers You May See

<p>U-factor U-factor ratings generally fall between 0.20 and 1.20. The lower the U-factor, the better a product is at keeping heat in. U-factor is particularly important during the winter heating season. This label displays U-factor in U.S. units. Labels on products sold in markets outside the United States may display U-factor in metric units.</p>	 <p>World's Best Window Co. Series "2000" Casement Vinyl Clad Wood Frame Double Glazing • Argon Fill • Low E ABC-X-1-00001-00001</p>	<p>Solar Heat Gain Coefficient (SHGC) is expressed as a number between 0 and 1. The lower the SHGC, the better a product is at blocking unwanted heat gain. Blocking solar heat gain is particularly important during the summer cooling season.</p>
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	
<p style="font-size: 8px;">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. NFRC does not recommend any product and does not warrant the suitability of any product for any specific use. Consult manufacturer's literature for other product performance information. www.nfrc.org</p>		

Visible Transmittance (VT) is expressed as a number between 0 and 1. The higher the VT, the higher the potential for daylighting.

Air Leakage (AL) rates typically fall in a range between 0.1 and 0.3. The lower the AL, the better a product is at keeping air out. AL is an optional rating, and manufacturers may choose not to include it on their labels. This label displays AL in U.S. units. Labels on products sold in markets outside the United States may display AL in metric units.

For more information:

- Visit www.energy.ca.gov/title24/2016standards
- Visit the NFRC website: www.NFRC.org
- Contact the energy code hotline at (800) 772-3300 or email: title24@energy.state.ca.us
- Contact the BayREN Codes & Standards Program by email: codes@bayren.org

* U-Factor and SHGC are performance ratings available from the manufacturer and shown on a temporary NFRC label attached to new windows (see above). Note: Lower values are better. **Do not remove label until building inspector verifies numbers.** Weight-averaging by area is allowed. See 2016-CF1R-ENV-02-E.

** Some alterations to existing homes, especially adding windows, will substantially increase energy consumption. Additional conservation measures are likely required to offset this. The performance approach is a way to determine what measures will cost-effectively offset the additional use. Contact an energy consultant at www.cabec.org