



NFRC's Window Film Certification and Labeling Program

Window film manufacturers may certify their products' energy performance ratings according to the National Fenestration Rating Council (NFRC) certification process. NFRC's certification program provides an independent, third-party verification of window film performance so consumers can compare products and make informed choices based on their individual energy performance needs.

Film Certification Benefits

- ★ Increased credibility for the manufacturer and increased value to the consumer.
- ★ Demonstrated commitment by window film manufacturers to verify product energy performance.
- ★ A level playing field for manufacturers, whether large or small, to demonstrate their products' certified energy performance ratings.

NFRC's Certification Process

To earn NFRC certification, each participating manufacturer must follow the process outlined in NFRC's certification documents. Briefly, the process is as follows:

- 1** The film manufacturer contacts NFRC and requests certification authorization of its product(s).
- 2** NFRC sends a packet of information to the manufacturer, including an NFRC Applied Film Manufacturer License Agreement. The license agreement and associated documents must be signed and returned to NFRC before certification authorization may be generated.

3 The manufacturer must submit their film's optical properties for acceptance in the International Glazing Database (IGDB hosted by Lawrence Berkeley National Labs at UC-Berkeley) according to NFRC's Verification Program for Optical Spectral Data (NFRC 302).

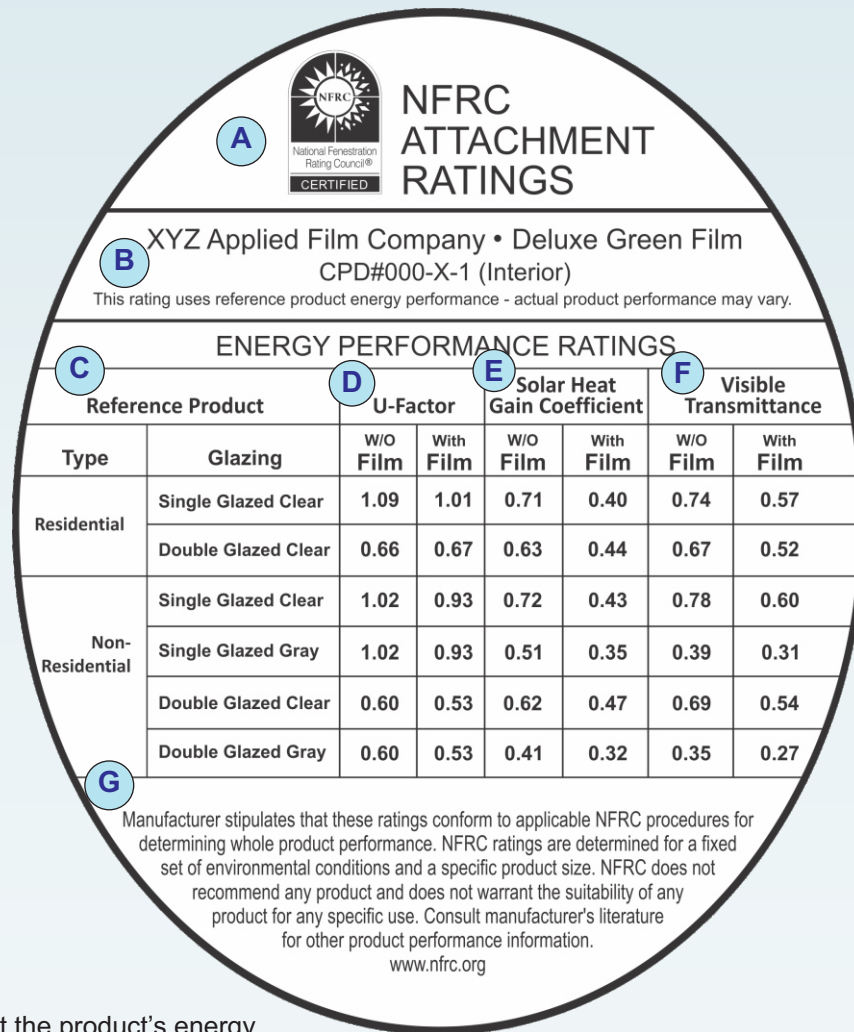
4 The manufacturer contacts and chooses an NFRC-accredited simulation laboratory. The laboratory determines the product's energy performance ratings by using the optical properties from the IGDB for computer simulation.

5 The manufacturer selects an NFRC licensed Certification and Inspection Agency (IA) to review the simulation results for accuracy and to conduct an in-plant inspection of the film manufacturer. Once the IA has determined that all certification requirements have been met, it generates a Certification Authorization Report (CAR) and uploads this information into the NFRC Certified Product Directory (CPD). The manufacturer may now place these approved performance rating values on NFRC labels. Certification authorization is valid for four years and may be renewed.

For more information

NFRC has additional information for window film manufacturers on its website at www.nfrc.org. The site includes the NFRC Certified Products Directory. If you need further information, please contact our offices at 301-589-1776.

NFRC's Window Film Energy Performance Label



- A** This mark indicates that the product's energy performance has been rated and certified in accordance with NFRC's certification process.
- B** This area is reserved for the name of the manufacturer and the product.
- C** Consumers, building officials, and others should use the information in the **Reference Product** columns to choose the glazing system that most closely matches the product on which the film is applied.
- D** **U-factor** measures how well a product prevents heat from escaping a home or building. 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.

- E** **Solar Heat Gain Coefficient (SHGC)** measures how well a product blocks heat from the sun. SHGC is expressed as a number between 0 and 1. The lower the SHGC, the better a product is at blocking heat gain. Blocking solar heat gain is particularly important during the summer cooling season and in Southern climates.
- F** **Visible Transmittance (VT)** measures how much light comes through a product. VT is expressed as a number between 0 and 1. The higher the VT, the higher the potential for daylighting.
- G** This space provides details about NFRC's rating procedures.

NFRC administers an independent, uniform rating and labeling system for the energy performance of fenestration products, including windows, curtain walls, doors, and skylights.

For more information on NFRC, please visit our Website at www.nfrc.org or contact NFRC directly at 301.589.1776.