**FOREWORD**

The National Fenestration Rating Council, Incorporated (NFRC) has developed and operates a uniform rating system for energy and energy-related performance of fenestration products. The Rating System determines the U-factor, Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT) of a product, which are mandatory ratings for labeling NFRC certified products, are mandatory ratings for inclusion on label certificates, and are supplemented by procedures for voluntary ratings of products for Air Leakage (AL), and Condensation Resistance. Together, these rating procedures, as set forth in documents published by NFRC, are known as the NFRC Rating System.

The NFRC Rating System employs computer simulation and physical testing by NFRC-accredited laboratories to establish energy and related performance ratings for fenestration product types. The NFRC Rating System is reinforced by a certification program under which NFRC-licensed responsible parties claiming NFRC product certification shall label and certify fenestration products to indicate those energy and related performance ratings, provided the ratings are authorized for certification by an NFRC-licensed certification and Inspection Agency (IA).

The requirements of the rating, certification, and labeling program (Certification Program) are set forth in the most recent versions of the following as amended, updated, or interpreted from time to time:

- NFRC 700  Product Certification Program (PCP).
- NFRC 705  Component Modeling Approach (CMA), Product Certification Program (CMA-PCP).

Through the Certification Program and the most recent versions of its companion programs as amended, updated, or interpreted from time to time:

- The laboratory accreditation program (Accreditation Program), as set forth in the NFRC 701 Laboratory Accreditation Program (LAP).
- The IA licensing program (IA Program), as set forth in NFRC 702 Certification Agency Program (CAP).
- The CMA Approved Calculation Entity (ACE) licensing program (ACE Program), as set forth in the NFRC 708 Calculation Entity Approval Program (CEAP).
NFRC intends to ensure the integrity and uniformity of NFRC ratings, certification, and labeling by ensuring that responsible parties, testing and simulation laboratories, and IAs adhere to strict NFRC requirements.

In order to participate in the Certification Program, a Manufacturer/Responsible Party shall rate a product whose energy and energy-related performance characteristics are to be certified in accordance with mandatory NFRC rating procedures. At present, a Manufacturer/Responsible Party may elect to rate products for U-factor, SHGC, VT, AL, Condensation Resistance, or any other procedure adopted by NFRC, and to include those ratings on the NFRC temporary label affixed to its products, or on the NFRC Label Certificate. U-factor, SHGC and VT, AL, and Condensation Resistance rating reports shall be obtained from a laboratory that has been accredited by NFRC in accordance with the requirements of the NFRC 701.

The rating shall then be reviewed by an IA which has been licensed by NFRC in accordance with the requirements of the NFRC 702. NFRC-licensed IAs also review label format and content, conduct in-plant inspections for quality assurance in accordance with the requirements of the NFRC 702, and issue a product Certificate of Authorization (CA), or approve for issuance an NFRC Label Certificate for site-built or CMA products and attachment products. The IA is also responsible for the investigation of potential violations (prohibited activities) as set forth in the NFRC 707 Compliance and Monitoring Program (CAMP).

Ratings for products that are labeled with the NFRC Temporary and Permanent Label, or products that are listed on an NFRC Label Certificate in accordance with NFRC requirements, are considered to be NFRC-certified. NFRC maintains a Certified Products Directory (CPD), listing product lines and individual products selected by the manufacturer/responsible party for which certification authorization has been granted.

NFRC manages the Rating System and regulates the Product Certification Program (PCP), Laboratory Accreditation Program (LAP) and Certification Agency Program (CAP) in accordance with the NFRC 700 (PCP), the NFRC 701 (LAP), the NFRC 702 (CAP), the NFRC 705 (CMA-PCP), and the NFRC 708 (CEAP) procedures, and conducts compliance activities under all these programs as well as the NFRC 707 (CAMP). NFRC continues to develop the Rating System and each of the programs.

NFRC owns all rights in and to each of the NFRC 700, NFRC 701, NFRC 702, NFRC 705, NFRC 707, NFRC 708 and each procedure, which is a component of the Rating System, as well as each of its registration marks, trade names, and other intellectual property.

The structure of the NFRC program and relationships among participants are shown in Figure 1, Figure 2, and Figure 3. For additional information on the roles of the IAs and laboratories and operation of the IA Program and Accreditation Program, see the NFRC 700 (PCP), NFRC 701 (LAP), and NFRC 702 (CAP) respectively.
Questions on the use of this procedure should be addressed to:

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DISCLAIMER

NFRC certification is the authorized act of a Manufacturer/Responsible Party in: (a) labeling a fenestration or related attachment product with an NFRC Permanent Label and NFRC Temporary Label, or (b) generating a site built or CMA label certificate, either of which bears one or more energy performance ratings reported by NFRC-accredited simulation and testing laboratories and authorized for certification by an NFRC-licensed IA. Each of these participants acts independently to report, authorize certification, and certify the energy-related ratings of fenestration and related attachment products.

NFRC does not certify a product and certification does not constitute a warranty of NFRC regarding any characteristic of a fenestration or fenestration-related attachment product. Certification is not an endorsement of or recommendation for any product or product line or any attribute of a product or product line. NFRC is not a merchant in the business of selling fenestration products or fenestration-related products, and therefore cannot warrant products as to their merchantability or fitness for a particular use.

NFRC THEREFORE DISCLAIMS ANY AND ALL LIABILITY THAT MAY ARISE FROM OR IN CONNECTION WITH SERVICES PROVIDED BY, DECISIONS MADE BY OR REPORTS OR CERTIFICATIONS ISSUED OR GRANTED BY ANY NFRC-ACCREDITED LABORATORY, NFRC-LICENSED IA OR ANY PRODUCT MANUFACTURER/RESPONSIBLE PARTY; RELIANCE ON ANY NFRC PRODUCT DESCRIPTION, SPECIFICATION, RATING, TEST OR CERTIFICATION, WHETHER APPEARING IN A REPORT, A PRODUCT CERTIFICATION AUTHORIZATION OR A PRINTED OR ELECTRONIC DIRECTORY, OR ON A LABEL, OR ON A LABEL CERTIFICATE; OR THE SALE OR USE OF ANY NFRC-RATED OR CERTIFIED PRODUCT OR PRODUCT LINE; INCLUDING BUT NOT LIMITED TO DAMAGES FOR PERSONAL OR OTHER INJURY, LOST PROFITS, LOST SAVINGS OR OTHER CONSEQUENTIAL OR INCIDENTAL DAMAGES.

NFRC program participants are required to indemnify NFRC from and against such liability.
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1. **INTRODUCTION**

1.1 **Scope of Program**

Any Licensee seeking product certification under this Product Certification Program (PCP or Certification Program) shall provide an NFRC-Accredited simulation laboratory of its choice with product drawings for each product line to be rated and certified, so that a computer simulation report on a product's energy performance ratings can be prepared in accordance with applicable approved NFRC rating procedures. The computer simulation report is then submitted, at the Licensee’s direction, to an NFRC-Licensed Certification and Inspection Agency (IA) selected by the Licensee.

The Licensee fabricates a baseline product for validation or a production line sample as applicable and as identified in the simulation report having U-factors within the allowable ranges as specified in ANSI/NFRC 100. The Licensee arranges to have the product physically tested by an NFRC-Accredited Testing Laboratory in accordance with the NFRC 102. The test reports are delivered to the Licensee, who may then direct the testing laboratory to deliver the reports to the IA. The simulation and testing sequence is performed at the Licensee’s discretion.

The IA then reviews the reports and compares the physical test results with the computer simulation results for validation. If the IA determines that the simulated and tested values are within the tolerances required by ANSI/NFRC 100, and that all requirements for product certification have been met, the IA authorizes product certification and issues a Certificate of Authorization (CA), which gives the Licensee permission to label the product in accordance with the Certification Program. Products to which the NFRC labels are affixed are NFRC-certified products. Products authorized for certification and selected by the Licensee are listed in the online Certified Products Directory (CPD) on the NFRC website.

1.1.1 **Role of NFRC**

NFRC has established and will sponsor and operate the Certification Program. Under the Certification Program, NFRC:

A. Establishes and periodically reviews Certification Program requirements, including rating and certification criteria, and a system for challenges and appeals;

B. Manages the Certification Program in accordance with the NFRC PCP, Laboratory Accreditation Program (LAP), Certification Agency Program (CAP), and Compliance and Monitoring Program (CAMP), as well as ANSI/NFRC 100, and other NFRC rating procedures;

C. Licenses IAs to provide NFRC product certification services;

D. Accredits simulation and testing laboratories to provide NFRC ratings services;
E. Maintains a system under which temporary and permanent labels, Site-Built Certificates, and Fenestration Manufacturer Certificates (FMC) are issued to or produced by Licensees to be placed on fenestration products authorized for certification;

F. Maintains an online, real-time listing of products and their energy performance ratings authorized for certification referred to as the CPD;

G. Periodically conducts educational workshops for IAs, laboratories, and others to ensure continuing competence and uniform application of the Certification Program;

H. Through its Certification Policy Committee (CPC), hears challenges, reviews policy, and acts on appeals pertaining to the Certification Program and the IA Program;

I. Through its Accreditation Policy Committee (APC), hears challenges, reviews policy, and acts on appeals pertaining to the Accreditation Program; and

J. Maintains a listing of Participating IG Certification Programs as described in NFRC 706.

1.1.2 Role of Licensee

A. Under the Certification Program, an NFRC fenestration Licensee is responsible for meeting the requirements in the PCP including, but not limited to, the following functions:

i. Arranging with one or more NFRC-licensed IAs to obtain NFRC certification authorization for one or more product lines;

ii. Arranging with one or more NFRC-accredited simulation laboratories for the purposes of conducting simulations and developing the matrix required for rating the Licensee's product lines;

iii. Arranging with one or more NFRC-accredited testing laboratories for the conducting of thermal tests required for rating the Licensee's products;

iv. Authorizing testing and simulation laboratories to provide an IA with copies of simulation and testing results and necessary support data for the purpose of determining compliance with Certification Program requirements;

v. Maintaining an in-plant quality control program to assure consistent quality as it relates to energy performance characteristics of products authorized for certification;

vi. Cooperating with in-plant inspections of manufacturing facilities to determine continued compliance with the Certification Program requirements;
vii. Entering into a license agreement with NFRC authorizing the Licensee to use the NFRC registered mark on certified products and in advertising;

viii. Labeling products to indicate certification; and

ix. Shall have all Insulating Glass Unit (IGU) used in NFRC Certified Products certified in accordance with a Participating IG Certification Program as described in NFRC 706.

B. A Licensee may:

i. Participate in the NFRC Certification Program with more than one IA; and

ii. Participate in other product certification programs not related to energy performance referencing NFRC procedures.

C. Additional requirements may be established by NFRC as necessary to assure continued program credibility.

1.1.3 Role of the IA

A. Under the Certification Program and the IA Program, NFRC-licensed IAs are responsible for meeting the requirements in the NFRC 700 (PCP) and the NFRC 702 (CAP) including, but not limited to, the following functions:

i. Establishing written procedures and policies consistent with the requirements of the Certification Program for participation in the NFRC Certification Program;

ii. Implementing the NFRC requirements and procedures regarding product rating and certification;

iii. Conducting in-plant inspections of manufacturing facilities to determine continued compliance with Certification Program requirements;

iv. Reviewing simulation uploads and spreadsheets, as well as simulation and test reports to determine compliance with NFRC rating procedures, and then accepting the data into the Certified Products Database;

v. Authorizing certification of products by issuing a CA;

vi. Distributing or authorizing the production of the following for products that are authorized for certification:

(a) Temporary and permanent labels to be placed on fenestration products,

(b) An FMC representing fenestration products performance,
(c) Labels on the box/packaging containing attachment products,

(d) Issuing Label Certificates for site-built products or construction projects more than three stories above grade and with a minimum fenestration area of 930 square meters (10,000 square feet), and

(e) Label Certificates for attachment products;

vii. Participating in the investigation of potential violations (prohibited activities) as set forth in the NFRC 707, CAMP; and

viii. Verifying that all IGUs used in NFRC Certified Products are certified in accordance with a Participating IG Certification Program as described in NFRC 706.

B. Additional information regarding the role of the IA in the NFRC Certification Program may be found in the NFRC CAP.

C. In the event there are no NFRC-licensed IAs available to perform the services provided by an IA, any such service may be provided by NFRC or NFRC's subcontractor. In the event there are no NFRC-licensed IAs, the word "IA," as used herein, shall mean NFRC or NFRC's subcontractor.

1.1.4 Role of Laboratory

Licensees participating in the NFRC Certification Program shall use testing and simulation laboratories that are accredited under NFRC’s Laboratory Accreditation Program. For information on the Laboratory Accreditation Program, see the NFRC 701 (LAP).

Exception: For purposes of Air Leakage (AL) rating and labeling per ANSI/NFRC 400, values from laboratories accredited to perform ASTM E283 testing and operate in accordance with ISO/IEC 17025 by an accreditation body that is a signatory to the Mutual Recognition Agreement of the International Laboratory Accreditation Cooperation (ILAC) shall be acceptable. It shall be the responsibility of the laboratory to provide proof of accreditation to the IA.

1.1.5 Fees

A. The NFRC 704, Fee Schedule includes NFRC fees for participating in the Product Certification Program (PCP or Certification Program), the Certification Agency Program (CAP or IA Program) and the Laboratory Accreditation Program (LAP or Accreditation Program). The schedule is a stand-alone document that is maintained on the NFRC website (www.nfrc.org).

B. NFRC fees for participating in the Certification Program are separate and apart from fees incurred by PCP participants for services provided by NFRC-licensed Certification and Inspection
Agencies (IAs), NFRC approved IG Certification Programs, and NFRC-accredited laboratories.

1.1.6 Property Rights

NFRC owns all rights to the Certification Program, the Accreditation Program, the IA Program, Compliance and Monitoring Program, ANSI/NFRC 100, NFRC 101, NFRC 102, ANSI/NFRC 200, NFRC 201, NFRC 300, NFRC 301, NFRC 302, ANSI/NFRC 400, NFRC 500, NFRC 501, and any other documents and procedures approved by the NFRC Board of Directors.

1.1.7 Liability Disclaimer

A. NFRC certification is the authorized act of a Licensee in labeling a fenestration product, or the box/packaging containing an attachment product, with an NFRC permanent label and an NFRC temporary label, which bears one or more energy performance ratings reported by NFRC-accredited simulation and testing laboratories and authorized for certification by an NFRC-licensed IA. Each of these participants acts independently to report ratings, authorize ratings for certification, and certify a product.

B. NFRC does not certify a product and certification does not constitute a warranty of NFRC regarding any characteristic of a product. Certification is not an endorsement of or recommendation for any product or product line or any attribute of a product or product line. NFRC is not a merchant in the business of selling products and therefore cannot warrant products as to their merchantability or fitness for a particular use.

C. NFRC therefore disclaims any and all liability that may arise from or in connection with services provided by, decisions made by, or reports or certifications issued or granted by any NFRC-accredited laboratory, NFRC-licensed IA, or any product Licensee; reliance on any NFRC product description, specification, rating, test or certification, whether appearing in a report, a product certification authorization, or a printed or electronic directory, or on a label or certificate; or the sale or use of any NFRC-rated or -certified product or product line, including but not limited to damages for personal or other injury, lost profits, lost savings, or other consequential or incidental damages.

D. NFRC program participants are required to indemnify NFRC from and against such liability.

1.1.8 Confidentiality

NFRC certification authorization, simulation, and test reports shall be considered confidential.
Applied Film Program Flow Chart

Applied Film Manufacturer

- Labels are Brand Name
- Obtain Sim & Test Reports
- Labeling Control
- Obtains Certification Authorization

Applied Film Licensed Brander Duplicate

- Labels are Brand Name
- Labeling Control
- Obtains Certification Authorization

Applied Film Supplier

- Obtain Sim & Test Reports
- Labeling Control

Applied Film Licensed Brander Reissue

- Labels are Brand Name
- Labeling Control
- Obtains Certification Authorization

Applied Film Licensed Brander Originator

- Labels are Brand Name
- Obtain Sim & Test Reports
- Labeling Control
- Obtains Certification Authorization

Applied Film Reseller

- Labels are Brand Name

Other Company

Participant

Responsibilities

Options

KEY:

Optional
(Participant may provide service)

Required
(Participant shall be held responsible)

Copied To
(Participant shall authorize data to be duplicated)