

## NFRC Errata and Addendum Log



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### 1. ADDENDUM

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Page 8 through 9

#### 3.1.1 License Agreement

NFRC shall deliver to the pending licensee a license agreement, with schedules for identifying the products authorized for certification and the manufacturing facilities approved for production of such products.

- A. The license agreement shall be in the form applicable to the licensee category:
  - i. Manufacturer - (Schedules I, II, & V: if applicable ~~& H~~)
  - ii. Lineal Supplier - (Schedule III)
  - iii. Fabricator - (Schedule I & Schedule II)
  - iv. Site-Built Responsible Party - (Schedules I, II, & IV)
  - v. Door Distributor/Dealer - (Schedules I & II)
  - vi. Door Manufacturer/Pre-Hanger - (Schedules I & II)
  - vii. Door Manufacturer/Lineal Supplier - (Schedule III)
  - viii. Attachments Manufacturer - (Schedule I & ~~Schedule II~~)
  - ix. Private Labeler – (Schedule I, II, V, and VI)
- B. The pending licensee shall return two signed copies of the license agreement and associated Schedules to NFRC that shall take effect

on the date of execution by NFRC. The license agreement remains in effect until terminated by either the licensee or NFRC.

- C. Upon execution of the NFRC license agreement, a licensee shall be licensed by NFRC to affix the NFRC registered mark, by means of NFRC-approved labels, both temporary and permanent, to products set forth on Schedule II and / or V (if applicable) of the NFRC license agreement, -provided that such labels conform with PCP labeling requirements and requirements of the NFRC license agreement.
- D. Any additional products, or additional energy performance ratings, authorized for certification shall be set forth in amended schedules completed online by the licensee in the NFRC Certified Products Database. The licensee shall amend, within thirty (30) calendar days, any change to applicable Schedules (I, II, III, IV, and/or IV-), and shall notify their IA and the NFRC of the change.

Page 14

### 3.9.1 Private Labeler License Agreement

- D. ~~Both the manufacturer and the~~ private labeler licensees shall sign a license agreement utilize the same with an Inspection Agency. The private labeler licensee is not required to use the same IA as the manufacturer.

### 4.1.1 Certification Program Ratings

- A. For certification authorization, except as indicated in Section 4.3.4, a licensee shall obtain ratings for U-factor, Solar Heat Gain Co-~~E~~fficient (SHGC), and Visible Transmittance (VT).

Page 15

### 4.2.1 Optional Ratings

Optional performance ratings available to licensees for certification authorization are Air Leakage (AL) and Condensation Resistance. See Section 4.3.4 for Special Cases regarding Condensation Resistance ratings.

#### 4.3.4.3 Fenestration Attachment Products

~~Attachment Products ratings required for certification authorization are SHGC and VT, which are obtained through simulation. Other NFRC ratings are not available for these products.~~

- A. Required ratings for certification authorization of applied films shall be SHGC and VT obtained per NFRC 200. Other NFRC ratings are not available for these attachment products.
- B. Required ratings for certification authorization of Dynamic Attachments for Swinging Doors shall be U-Factor, SHGC and VT, obtained at the attachment product's Fully OPEN and Fully CLOSED Positions, per NFRC 100 and NFRC 200. Other NFRC ratings are not available for these attachment products.
- C. NFRC ratings are not presently available for any other Fenestration Attachment Products. At such time that rating procedures are approved for other Fenestration Attachment Products, appropriate updates will be made to this and other applicable NFRC documents.

#### 4.3.4.4 Dynamic Glazing Products

~~As defined in NFRC 100, dynamic glazing products shall have U-Factor, SHGC, and VT ratings for both their full ON/CLOSED and full OFF/OPEN positions.~~

- A. Required ratings for certification authorization of Dynamic Glazing Products that utilize a shading system between glazing layers shall be U-Factor, SHGC and VT, obtained at the shading system's Fully OPEN and Fully CLOSED Positions, per NFRC 100 and NFRC 200.
- B. Required ratings for certification authorization of other Dynamic Glazing Products shall be U-Factor, SHGC and VT, obtained at the product's Fully ON and Fully OFF Positions, per NFRC 100 and NFRC 200.
- C. If certification authorization is sought for Condensation Resistance ratings for Dynamic Glazing Products that utilize a shading system between glazing layers, such Condensation Resistance ratings shall be obtained at the shading system's Fully OPEN and Fully CLOSED Positions per NFRC 500.

- D. If certification authorization is sought for Condensation Resistance ratings for other Dynamic Glazing Products, such Condensation Resistance ratings shall be obtained at the product's Fully ON and Fully OFF Positions per NFRC 500.

## SECTION 5 – Certification Authorization

Except as indicated in Section 4.3.4, the licensee shall seek product certification authorization for required ratings: U-factor, Solar Heat Gain Coefficient, and Visible Transmittance. Additionally, a licensee may seek certification authorization for optional ratings: Air Leakage and Condensation Resistance.

Page 27 through 28

### 6.4.2 ~~Attachment products~~Applied Films:

- A. Temporary labels may be applied to the interior surface of the glazing component at the time and place of final installation of the ~~attachment product applied films~~, in addition to the box/packaging containing the ~~attachment product applied film~~.
- B. Temporary labels shall be provided by the ~~attachment applied film~~ licensee to the installer. The ~~attachment applied film~~ licensee shall provide the installer with instructions as to the proper application of the temporary labels.
- C. The temporary label shall reflect ratings that are to be applied to either the “interior” or “exterior” surface of ~~a window~~ the glazing.
- D. The temporary label shall include whole product ratings for Solar Heat Gain Coefficient and Visible Transmittance. These ratings shall reflect whole product ratings simulated “with” film for the following default window systems (See Appendix B, Figure B-5 and Figure B-6A and B-6B):
  - i. Two default window types, both fixed (residential) and curtain-wall (non-residential),
  - ii. in an aluminum default frame,
  - iii. with default single and double glazing (single-glazed 3 mm clear, single-glazed 6 mm clear and grey, double-glazed 3 mm clear with 13 mm air gap, and double-glazed 6 mm clear and grey with 7 mm air gap).

### 6.4.3 Dynamic Glazing Products and Dynamic Attachments for Swinging Doors

Temporary labels for Dynamic Glazing Products and Dynamic Attachments for Swinging Doors shall include the ratings indicated in Section 4.3.4.

~~U Factor, SHGC, and VT ratings for their full ON and OFF or full OPEN and CLOSED positions if the appropriate ratings have been obtained. The ratings shall indicate the full ON and OFF or full OPEN and CLOSED ratings, and shall use an arrow between the ratings and the word “variable” if the product has the ability to operate in intermediate states (See Appendix B, Figures B-6A and B-6B). For products with between glass shading devices, the terms “ON” and “OFF” shall be replaced with either:~~

- ~~A. “OPEN” and “CLOSED”;~~
- ~~B. “SHADE OPEN” and “SHADE CLOSED”; or~~
- ~~C. “BLIND OPEN” and “BLIND CLOSED”.~~

### 6.4.4 Private Labeler Licensee Products

## 6.5 Permanent Certification Labels

- C. Required information on the permanent label shall be:
  - i. NFRC identification in the form of the “NFRC” wordmark or registered NFRC logo.
  - ii. Licensee’s identification. Examples include but are not limited to: mfrs name, trademark, logo, or NFRC licensee code.
  - iii. Product line identification number as assigned by the IA, or the manufacturer’s product code. ~~., in the Certified Products Database~~ Bar coding may be included, but may not be used in lieu of the alpha or numeric identification code.

Page 31

## 7.1 Certified Products Database

- B. Licensee responsibilities include:
  - vi. Reporting to NFRC or the designated IA other required changes that cannot be made directly by the licensee.
  - ~~iv.~~vii. May request the product line ID number prior to the issuance of the CAR. Note: Manufacturer must have an active CAR prior to labeling product. (Reference Section 5.1).

### 8.6.3 Product Line Transfers

- C. Upon the new IA's acceptance of the product lines, a new ~~product line number~~ (CPD number) shall be issued for the product lines. The new CPD number may reflect a new IA code or manufacturer code, or both, depending upon the circumstances for the transfer.

### 8.6.5 Transfer to Private Labeler

- C. Procedures for transferring product lines pursuant to Section 8.6.3 shall apply, excluding subsections 8.6.3.B.iv and v when the private labeler signs a license agreement with the manufacturer's IA. In cases where the private labeler signs a license agreement with an IA different than the manufacturers, the manufacturer shall authorize their IA to provide "copies" of the original and all subsequent reports to the private labeler IA.
- ~~C.D.~~ Additions and deletions of individual options in a manufacturer's NFRC-certified product line that correspond to a private labeler products as reflected in the Schedule V shall be reported to the designated private labeler IA.

### 8.7.1.6 Private Labeler Inspections

#### Private Labeler Applying Labels


- A. The private labeler licensee's designated IA shall conduct an inspection of the Private Labeler location(s) listed on Schedule VI within six (6) months of the labeler's Schedule VI submission.
- B. The private labeler shall maintain a quality control system to ensure proper product ordering, receipt, and labeling.
- C. During the private labeler inspection, the designated IA shall review the labeling quality control system and shall inspect randomly selected products to ascertain whether the authorized product(s) are properly labeled.

#### Manufacturer Applying Labels for Private Labeler

- A. The private labeler licensee's designated IA shall conduct an inspection of the manufacturer location(s) listed on Schedule VI within six (6) months of the labeler's Schedule VI submission.
- B. If the private labeler uses a different IA than the manufacturer, the manufacturer shall allow the private labeler's IA access to the manufacturer location(s) to conduct inspections.

Page 65 through 66

**Figure B-2**  
**Sample Temporary Door Label (R1-2005)**

	<h1>World's Best Door Co.</h1> <p><b>Entrance Door</b> CPD#000-x-000 Insulated Steel Wood Edge Door</p>			
	<b>ENERGY PERFORMANCE RATINGS</b>			
Product Description* Default Frame** Wood	U-Factor/Solar Heat Gain Coefficient (SHGC)			
	1/4 Lite ≤410†	1/2 Lite ≤900†	3/4 Lite ≤1100†	Full Lite >1100†
2/A1/na/AIR/0.250	0.23 —	0.30 —	0.36 0.33	0.40 0.40
2/A1/.020(3)/ARG/0.750	0.21 —	0.24 —	<b>0.26</b> 0.31	0.28 0.36
2/A1/na/AIR/0.675	0.23 —	0.28 —	0.33 0.34	0.34 0.40
3/S5/na/AIR/0.250	0.21 —	0.25 —	0.27 0.35	0.29 0.40
Flush/Embossed	U-Factor <b>0.19</b>		SHGC <b>0.04</b>	
<p>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.</p> <p>* #glazing layers / spacer type / low-e emissivity (surface) / gap fill / gap width (na=not applicable) ** per NFRC 100 † square inches</p> <p style="text-align: center;">www.nfrc.org</p>				

The licensee labeling the product shall identify the option in the matrix that is the rated product by either circling or highlighting the option applicable within the matrix.

**Figure B-3**  
**Sample Temporary Label for Dynamic Glazing Products (R1-2005)**

	<p align="center"><b>World's Best Window Co.</b></p> <p align="center">Millennium 2000+          Vinyl-Clad Wood Frame          Double Glazing • Dynamic Glazing • Argon Fill • Low E          Product Type: <b>Vertical Slider</b></p>	
	<p><b>ENERGY PERFORMANCE RATINGS</b></p>	
<p>U-Factor (U.S./I-P)</p> <p><b>0.30</b> <sup>Variable</sup> ↔ <b>0.40</b></p> <p><small>On/Closed                      Off/Open</small></p>	<p>Solar Heat Gain Coefficient</p> <p><b>0.10</b> <sup>Variable</sup> ↔ <b>0.50</b></p> <p><small>On/Closed                      Off/Open</small></p>	
<p><b>ADDITIONAL PERFORMANCE RATINGS</b></p>		
<p>Visible Transmittance</p> <p><b>0.03</b> <sup>Variable</sup> ↔ <b>0.65</b></p> <p><small>On/Closed                      Off/Open</small></p>	<p>Air Leakage (U.S./I-P)</p> <p><b>0.2</b></p>	
<p><small>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.  <a href="http://www.nfrc.org">www.nfrc.org</a></small></p>		

The label shall display ratings in accordance with the following criteria:

- A. Low value (left) to high value (right)
- B. For Dynamic Glazing Products that utilize a shading system between glazing layers, ratings shall reflect Fully CLOSED and Fully OPEN Positions as defined in NFRC 600. The terms “On/Closed” and “Off/Open” in the above sample label shall be replaced with either:
  - i. “OPEN” and “CLOSED”
  - ii. “SHADE OPEN” and “SHADE CLOSED”; or
  - iii. “BLIND OPEN” and “BLIND CLOSED”.
- ~~±C.~~ For other Dynamic Glazing Products, ratings shall reflect Fully ON and Fully OFF Positions as defined in NFRC 600. The terms “On/Closed” and “Off/Open” in the above sample label shall be replaced with “ON” and “OFF”.
- ~~B.~~ For glazing technologies, ratings shall be reflected as “On/Off”
  - i. Powered glazing technologies are “On”
  - ii. De-energized glazing technologies are “Off”
- ~~C.~~ Shading system ratings shall be reflected as “Closed/Open” as defined in NFRC 100.
- D. Use an arrow and the word “variable” if the product has the ability to



## B.6 Optional information

### A. Certified Products Directory (CPD) number

Examples: ABC-X-00001-00001 or ABC-X-001-00001-00001

ABC - X - 001 - 00001

[Mfr ID#] [IA Code] [Product Line #] [Individual Product ID]

or

ABC - X - 001 - 00001 - 00001

[Mfr ID#] [IA Code] [Product Line #] [Individual Product ID] [SHGC]

### B. Manufacturer Series Name/Model Number

Example: Series "2000"

### C. Air space width

Examples: 0.5" (IP units only)  
12.7 mm (0.5") (Metric and IP)

### D. Coating emissivity

Examples: e=0.04

### E. Spacer type (generic material type or spacer code from Certified Products Directory only).

Examples: Aluminum Spacer or A1

### F. Manufacturers own product identification.

G. Examples:

H. WBWAACLR004 (up to 25 alpha numeric characters)

### I. Glazing tint or reflective coating (generic color type or code as shown in the Certified Products Directory).

Examples: Green, Reflective, or GY

### J. Manufacturer contact information

Examples: Phone number, Web address, etc.

**B.57 Product Description**

Mandatory Elements

**World's Best Window Co.**  
~~Millennium 2000 Vinyl-Clad Wood~~  
~~Frame~~  
~~Casement~~  
~~Vinyl-Clad Wood Frame~~  
Double Glazing • Argon Fill • Low E  
~~ABC-X-001\*~~  
~~Vertical Slider~~

\* Only required per Section B.5.E **World's**

**Best**  
**Window Co.**  
**Millennium 2000**  
~~Vinyl-Clad Wood Frame~~  
~~Double Glazing • Argon Fill • Low E~~  
~~Vertical Slider~~

Optional Elements

**World's Best Window Co.**  
~~Millennium Series "2000"~~  
~~CPD #ABC-X-001-00001-000010~~  
Vinyl-Clad Wood Frame  
Casement  
•Double Glazing•  
Aluminum space • 0.5" Gap  
Argon Fill  
(Low-e-E = 0.04)  
WBWAACLR004  
Phone: (800)-555-1234  
info@wbw.com Product Type: Vertical  
Slider  
WBW Co., P: XXX-XX-000

Optional elements are underlined, but should not be underlined on actual product label.

**B.6—Required information**

~~Manufacturer name or identification code shall appear in the space provided.~~

~~Examples:~~

~~World's Best                    or    ABC    or    001  
Window Co.~~

~~Frame Type:~~

~~Examples:                    Vinyl-Clad Wood Frame  
                                  Aluminum Frame~~

~~Product Type:~~

~~Examples:                    Casement  
                                  Vertical Slider~~

~~Glazing description, including gas fill if present and/or low-e if present. Please note: a licensee that owns proprietary rights to a specific Low-Emissivity coating, can print the trade name of the coated glass on the temporary label.~~

~~Examples:                    Double-glazing  
                                  Double-glazing with low-E  
                                  Low-E glazing with argon fill~~

~~Certified Products Directory (CPD) number, up to the product line level, for the following instances:~~

~~1. When the company name of the Schedule I location manufacturing the product is different from the licensee name and is referenced in the product information section of the label; or~~

~~1. When the name of the reseller, distributor, or private labeler is different from the licensee name and is referenced in the product information section of the label;~~

~~Examples: — CPD# ABC x 001~~

~~— CPD# ABC — x — 001~~

~~— [Mfr. ID#] — [IA code] — [Product line ID]~~

## **B.7—Optional information**

### **Certified Products Directory (CPD) number**

Examples: ~~CPD# ABC-x-001-001 or CPD# ABC-x-001-001-001~~

~~CPD # ABC - x - 001 - 001 - 001  
[Mfr ID#] [IA code] [product line#] [individual product ID] [SHGC]~~

### **Manufacturer Series Name/Model Number**

#### **Air space width**

Examples: 0.5" (IP units only)  
12.7 mm (0.5") (Metric and IP)

#### **Coating emissivity**

Examples: e=0.04

#### **Spacer type (generic material type or spacer code from Certified Products Directory only):**

Examples: aluminum spacer or A1

#### **Manufacturers own product identification as issued by the Inspection Agency (IA):**

Examples: 001 (up to 25 digits)

#### **Glazing tint or reflective coating (generic color type or code as shown in the Certified Products Directory):**

Examples: green, reflective, or xx

#### **Manufacturer contact information**

Examples: ~~WBW, Inc., Phone, Web address~~