



NFRC Errata and Addendum Log

1. ADDENDUM

4.1 Product Lines and Individual Products

4.2.1 Product Lines

Refer to [Section 4.2.1 of NFRC 100](#) for the definition of a product line.

4.2.2 Individual Products

Refer to [Section 4.2.2 of NFRC 100](#) for the definition of an individual product. For the purposes of this procedure only, variations in gap width, frame or sash color, and/or gas fill do not constitute different individual products.

4.2.3 Grouping of Products

A. *[unchanged]*

B. *[unchanged]*

C. When rating Dynamic Glazing Products with shading systems between glazing layers, it shall be permitted to group combinations of shading systems and glazing layers. For purposes of determining SHGC, the shading system and glazing layers comprising each group leader shall be determined as follows.

i. Shading systems within a group shall vary only by color of the shading systems. The shading system used in the group leader shall be of the darkest color within the group. The darkest color shall be defined as that color with the lowest L* value in the CIE L*a*b* color space, as described in Section 8 of CIE 15.

If multiple shading systems within the group have the same, lowest, L* value, then any one of those shading systems shall be permitted to be used in the group leader.

ii. Glazing layers within a group, and the corresponding glazing layers used in the group leader, shall be determined in accordance with the representative glazing pane thicknesses rules of Table 4-1.

Note: It is intended that these same rules shall apply to determining VT ratings as well, when procedures for obtaining VT ratings for such products are approved and implemented.

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2. ADDENDUM

2.1 Products Covered

- K. “Film” attachment products which consist of a flexible adhesive-backed polymer film which may be applied to the interior or exterior surface of an existing glazing system in an installed fenestration product (i.e., as a retrofit, ‘field-installed’ or ‘daylight-installed’).

[*Note 1.*: Films factory-applied to glazing prior to fenestration product fabrication and installation are already covered as glazing options by NFRC 200 and shall not be rated according to the procedure of Section 5.7.]

Internal shading systems are included in 2.1.1A and shall be tested in accordance with NFRC 201.

2.2 Products and Effects Not Covered

2.2.1 Products and Effects Not Covered (SHGC)

~~E. Chromogenic products whose properties vary, such as electrochromic, thermochromic and photochromic glazing.~~

~~FE.~~ Adhesive-backed film products with light redirecting properties, that is with optical properties which produce one or more transmitted beams where the direction of the transmitted beam is not equal to the incident direction, including, but not limited to, holographic or microstructured films.

~~GF.~~ Adhesive-backed film products incorporating materials with optical properties that vary in response to ambient conditions (chromogenic), such as electrochromic, thermochromic and photochromic materials.

2.2.2 Products and Effects Not Covered (VT)

~~G. Chromogenic products whose properties vary, such as electrochromic, thermochromic and photochromic glazing.~~

GH. Tubular Daylighting Devices.

4.5 Simulation Procedures

H. Products that meet the definition of a Dynamic Glazing Product shall be rated at their full ON and OFF or full OPEN and CLOSED positions. The manufacturer shall specify the appropriate procedure to use to achieve the stated positions. Rating procedures for the stated positions shall be the same as for non-Dynamic Glazing Products.

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3. ADDENDUM

4.1 Compliance

4.2.1 Product Line Simulation and Testing

4.2.2 Testing Alternative

4.2 Product Lines and Individual Products

4.2.1 Product Lines

4.2.2 Individual Products

4.2.3 Grouping of Products

C. When rating Dynamic Glazing Products with shading systems between glazing layers, it shall be permitted to group combinations of shading systems and glazing layers. For purposes of determining SHGC, the shading system and glazing layers comprising each group leader shall be determined as follows.

i. Shading systems within a group shall vary only by color of the shading systems. The shading system used in the group leader shall be of the darkest color within the group. The darkest color shall be defined as that color with the lowest L* value in the CIE L*a*b* color space, as described in Section 8 of CIE 15.

If multiple shading systems within the group have the same, lowest, L* value, then any one of those shading systems shall be permitted to be used in the group leader.

- ii. Glazing layers within a group, and the corresponding glazing layers used in the group leader, shall be determined in accordance with the representative glazing pane thicknesses rules of Table 4-1.

Note: It is intended that these same rules shall apply to determining VT ratings as well, when procedures for obtaining VT ratings for such products are approved and implemented

6. References

[1] through [8] *Unchanged*

[9] CIE 15:2004, 3rd Edition: Technical Report – Colorimetry

NFRC 200-2004_E1A3

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1. ERRATA

Title Page – Address changes

National Fenestration Rating Council
6305 Ivy Lane, Suite 140
Greenbelt, MD 20770
Voice: (301) 589-1776
Fax: (301) 589-3884
Email: info@nfr.org
Website: www.nfr.org

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4. ADDENDUM

The following references only the language modified for the addition of Dynamic Attachment for Swinging Doors language.

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2.1.1 Products Covered using NFRC 201 Test Procedure for SHGC

H. Dynamic Attachment Products for Swinging Doors

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5.8 Dynamic Attachment Products for Swinging Doors

Rating procedures for full glazed swinging doors shall be used with the dynamic attachment in the “fully open” and “fully closed” position.

5.8.1 Scope

This section presents additional details specific to Dynamic Attachments for Swinging Doors. This section presents and references methods for determining specific Dynamic Attachments for Swinging Doors Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT).

5.8.2 Methodology

Methodology for rating Full Light Swinging Doors can be found in Section 5.2. Dynamic Attachment for Swinging Door products will be rated using reference Swinging Doors outlined in NFRC 100 Section 5.7.

5.8.3 Approved Computational Program

The Dynamic Attachment for Swinging Door Product's Solar Heat Gain Coefficient and Visual Transmittance shall be determined using approved glazed swinging door simulation. The Dynamic Attachment for Swinging Door shall be modeled on the reference swinging doors indicated in NFRC 100 Section 5.7.3.

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5. ADDENDUM

The following references only the language modified for dynamic attachments for swinging doors.

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5.8 Dynamic Attachment Products for Swinging Doors

Rating procedures for full and half glazed swinging doors shall be used with the dynamic attachment in the “fully open” and “fully closed” position.

5.8.1 Scope

[Not changed]

5.8.2 Methodology

Methodology for rating Full and Half Liteght Swinging Doors can be found in Section 5.2. Dynamic Attachment for Swinging Door products will be rated using reference Swinging Doors outlined in NFRC 100 Section 5.7.

5.8.3 Approved Computational Program

[Not changed]