



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Eastman Chemical Company (MA)
730 Worcester Street
Springfield, MA 01151

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Saflex® FlySafe™ 3D PVB Interlayer for Laminated Glass

APPROVAL DOCUMENT: Drawing No. **2008**, titled "Saflex® FlySafe™ 3D Interlayer for Laminated Glass", sheets 1 through 3 of 3, dated 02/08/2022, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Glass laminated under this product approval shall be permanently marked in a corner of the glass with: a) Saflex FlySafe 3D, b) Authorized laminator's name, c) M.D.C.A. that stands for Miami Dade County Approved and d) Markings required by federal law for safety glazing. The laminate's or interlayer's packaging is to identify the manufacturer's name or logo, manufacturing plant's city and state, and the statement reading 'Miami-Dade County Product Control Approved'.

LIMITATION: This approval does not include an evaluation of structural performance of this component.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



NOA No. 22-0217.01
Expiration Date: March 31, 2027
Approval Date: March 31, 2022
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **2008**, titled “Saflex® FlySafe™ 3D Interlayer for Laminated Glass”, sheets 1 through 3 of 3, dated 02/08/2022, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

| | <u>Test Report No.</u> | <u>Standard</u> | <u>Date</u> | <u>Signature</u> |
|----------------------------------|-------------------------------|------------------------|--------------------|-------------------------|
| 1. | M9090.01-106-18 R0 | ASTM D1929 | 01/17/22 | Vinu J. Abraham, P.E. |
| 2. | M9090.01-106-18 R0 | ASTM D2843 | 01/17/22 | Vinu J. Abraham, P.E. |
| 3. | M9090.01-106-18 R0 | ASTM D635 | 01/17/22 | Vinu J. Abraham, P.E. |
| <i>“NOA # 21-0216.01”</i> | | | | |
| 4. | ETC-07-726-20120.0 | ASTM C158 | 07/17/08 | Joseph L. Doldan, P.E. |
| 5. | ETC 96-191-3253.0 | ASTM G26 & C158 | 11/05/97 | Joseph L. Doldan, P.E. |
| 6. | ETC 98-191-5523.0 | ASTM G26 & C158 | 05/11/99 | Joseph L. Doldan, P.E. |

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

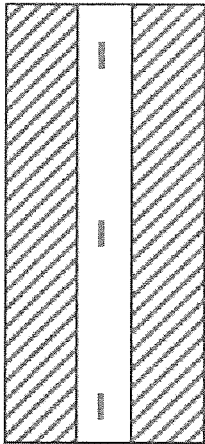
F. STATEMENTS

1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 03/21/2022, signed and sealed by Warren W. Schaefer, P.E.
2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A., on 03/21/2022, signed and sealed by Warren W. Schaefer, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 22-0217.01
Expiration Date: March 31, 2027
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A B A



SECTION

Saflex® FlySafe™ 3D PVB Interlayer

Product Description

Manufactured by: Eastman Chemical Company

Description: Clear or Colored extruded interlayers made of polyvinyl butyral resin and triethyleneglycol bis(2-ethyl hexanoate) plasticizer. Interlayer is offered under the brand name of Saflex® FlySafe™ 3D for lamination between a minimum of two glasses. The interlayer is supplied with polyethylene terephthalate base elements not covering more than 85% of the surface. These elements are attached to the interlayer to cause visual noise. A typical glazing is made of the following components (minimum thicknesses indicated – multiple plies of interlayer to be used as necessary).

| | |
|------------------------|---------------------------------|
| A – 2.3 mm (3/32 in) | Glass |
| B – 0.76 mm (0.030 in) | Saflex® FlySafe™ 3D interlayers |

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 22-0217.01

Approval Date 03/31/2022

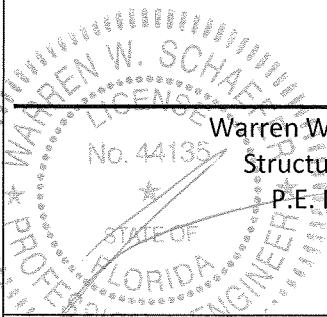
By 
Miami-Dade Product Control

Product Properties

| Description | Test | Saflex® FlySafe™ 3D |
|-------------------------------|------------|---|
| (1) Self-Ignition temperature | ASTM D1929 | 380°C (716°F) |
| (1) Smoke Density | ASTM D2843 | 10.8 |
| (1) Rate of Burning | ASTM D635 | Class CC1 |
| (1) Time of Burning | ASTM D635 | < 5 sec |
| (1) Extent of Burning | ASTM D635 | None sustained |
| (1) Avg Mod of Rupture | ASTM C158 | (1) Weathering (3) Before: 2556 psi After: 2657 psi |

- 1) Specimen: Laminated glass with Saflex® and/or Vanceva® interlayer
 - 2) Interlayer by itself (unprotected) does NOT comply with Florida Building Code
 - 3) Weathering per section 2615 of the Florida Building Code – Data from Saflex PVB interlayer NOA
- * Saflex and Vanceva are registered trademarks of Eastman Chemical Company

| | | |
|---|----------|----------|
| | | |
| | | |
| | | |
| A | Original | 02/08/22 |

| | | | | | |
|---|--|--|------------------------|--------------------------|----------------|
|  <p>Warren W. Schaefer, P.E. Structural Engineer P.E. No. 44135 FEB 14 2022</p> | | Eastman Chemical Company 730 Worcester Street, Springfield, MA 01151 Phone: 413-730-3413 E-mail: glazing@eastman.com | | | |
| | | Title: Saflex® FlySafe™ 3D Interlayers for Laminated Glass | | | |
| W.W. Schaefer Engineering & Consulting, P.A. Structural Consulting Engineers 7480 150 th Court North Palm Beach Gardens, FL 33418 Phone: 561-744-3424 | | Drawing Number 2008 | Sheet Number 1 of 3 | Drawing Date 02/08/22 | Revisions Date |

| Rev # | Description | Date |
|-------|-------------|------|
|-------|-------------|------|

Saflex® FlySafe™ 3D PVB interlayer continued

Saflex® Multi-layer Product Properties

| Footnote | Description | Test | Dade County Criteria | Saflex Multi-layer Series (2) |
|-----------|----------------------------|------------|---------------------------|--|
| (1) | Test for Smoke Density | ASTM D2843 | Passed (<75%) | 20.7 |
| (1) | Self-Ignition Temperature | ASTM D1929 | Passed (>550°F) | 716°F |
| (1) | Rate of Burning | ASTM D635 | Passed (C-1; ,1.0 in/min) | CC1 |
| (1) | Average Time of Burning | ASTM D635 | --- | <5 sec. |
| (1) | Average Extent of Burning | ASTM D635 | --- | None sustained |
| (1) & (3) | Average Modulus of Rupture | ASTM C158 | Passed (<10.0%) | Delta: 4.9% Before: 3842 psi After: 4042 psi |

- 1) Specimen: Laminated glass with Saflex® and/or Vanceva® interlayer
2) Interlayer by itself (unprotected) does NOT comply with Florida Building Code
3) Weathering per section 2615 of the Florida Building Code

Saflex® and Vanceva® Solar/Color and Colorant Properties

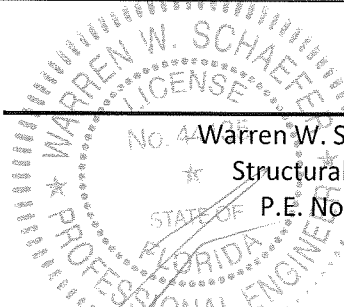
| Material Designation | Smoke Density Rating ASTM D2843 | Dade Notification # |
|-----------------------------|------------------------------------|---------------------|
| Vanceva® & Saflex® - Clear | 11.8% | M9090.01-106-18 RO |
| Vanceva® & Saflex® - White | 20% | ETC-11-726-25079.0 |
| Vanceva® & Saflex® - Black | 2% | ETC-11-726-25079.0 |
| Vanceva® & Saflex® - Blue | 29.5% | M9090.01-106-18 RO |
| Vanceva® & Saflex® - Yellow | 9% | ETC-11-726-25079.0 |
| Vanceva® & Saflex® - Red | 10% | ETC-11-726-25079.0 |

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By 
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|  <p>Warren W. Schaefer, P.E. Structural Engineer P.E. No. 44135 FEB 14 2022</p> | Eastman Chemical Company 730 Worcester Street, Springfield, MA 01151 Phone: 413-730-3413 E-mail: glazing@eastman.com | | | |
| W.W. Schaefer Engineering & Consulting, P.A. Structural Consulting Engineers 7480 150 th Court North Palm Beach Gardens, FL 33418 Phone: 561-744-3424 | Title: Saflex® FlySafe™ 3D Interlayers for Laminated Glass | | | |
| | Drawing Number 2008 | Sheet Number 2 of 3 | Drawing Date 02/08/22 | Revisions Date |

Saflex® FlySafe™ 3D PVB interlayer continued

Saflex® interlayers are known as Saflex®, Saflex® Clear, Saflex® colors, Saflex® FlySafe™ 3D, Saflex® multi-layer, Saflex® Storm, Saflex® Secure, Saflex® Structural, Saflex® Synergy, SilentGlass Technology™, Vanceva® Color and Vanceva® Earth Tones.

Vanceva and/or Saflex are known as: AR, CL, DA through DZ, KA through KZ, MG, NA through NZ, RA through RZ, SA through SZ, UA - UZ and VA through VS. (e.g.: RB41, NA71).

Saflex® Multi-layer interlayers are known as: Q series (QA through QZ) and Silent Glass Technology (e.g.: QB51, QS41 etc.)

® Saflex and Vanceva are registered trademarks of Eastman Chemical Company

™Silent glass Technology is a trademark of Eastman Chemical Company

™FlySafe is a trademark of Eastman Chemical Company.

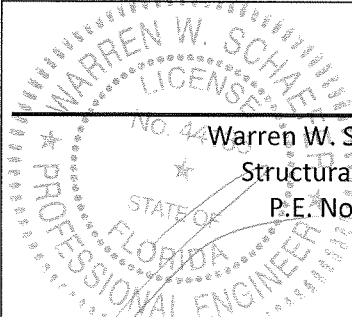
This is a component approval and does not include an evaluation of structural performance of this component. Systems incorporating this component shall apply for an NOA to the Miami-Dade Product Control and shall submit test reports and other required documents showing that the systems using this component will resist the loads according to chapter 16 of the F.B.C. A list of authorized laminators shall be filed with Miami-Dade County by Eastman Chemical Company.

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By 
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| | | | | |
|--|--|---------------------------|--------------------------|-------------------|
|  Warren W. Schaefer, P.E. Structural Engineer P.E. No: 44135 FEB 14 2022 | Eastman Chemical Company 730 Worcester Street, Springfield, MA 01151 Phone: 413-730-3413 E-mail: glazing@eastman.com | | | |
| | Title: Saflex® FlySafe™ 3D Interlayers for Laminated Glass | | | |
| W.W. Schaefer Engineering & Consulting, P.A. Structural Consulting Engineers 7480 150 th Court North Palm Beach Gardens, FL 33418 Phone: 561-744-3424 | Drawing Number 2008 | Sheet Number 3 of 3 | Drawing Date 02/08/22 | Revisions Date |