



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](http://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 HP Clear or Color Glass Interlayers**

**APPROVAL DOCUMENT:** Drawing No. 1814, titled "Saflex HP Interlayers for Laminated Glass", sheets 1 and 2 of 2, dated 04/06/2012, 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 revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Glass lites laminated under this Product Approval shall be permanently marked in a corner of the glass with: a) Saflex HP, b) Glass standard specifications, c) Laminator identification mark and d) MDCA, standing for Miami Dade County Approved.

**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 revises and renews NOA # 11-1102.10 and 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.



*[Handwritten Signature]*  
 03/19/2013

NOA No. 12-1231.09  
 Expiration Date: April 14, 2018  
 Approval Date: March 28, 2013  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. 1814, titled "Saflex HP Interlayer for Laminated Glass", sheets 1 and 2 of 2, dated 04/06/2012, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS "Submitted under NOA # 09-0223.05"**

	Test report	Standard	Date	Signature
1.	ETC-07-726-20120.0	ASTM D2843	07/17/08	Joseph L. Doldan, P.E.
2.	ETC-07-726-20120.0	ASTM D1929	07/17/08	Joseph L. Doldan, P.E.
3.	ETC-07-726-20120.0	ASTM D635	07/17/08	Joseph L. Doldan, P.E.
4.	ETC-07-726-20120.0	ASTM C158	07/17/08	Joseph L. Doldan, P.E.

**"Submitted under NOA # 08-1224.04"**

5.	ETC 03-191-13748.0	ASTM D 2843	07/25/03	Joseph L. Doldan, P.E.
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**"Submitted under NOA # 03-0421.01"**

6.	Omega 15542-109493	ASTM E 84	09/12/01	J.W. Dougherty, P.E.
7.	Omega 15542-109763	ASTM E 84	10/30/01	J.W. Dougherty, P.E.
8.	HTL 0003-0913-01	PA 201 & 203	09/12/02	V. J. Abraham, P.E.
9.	ETC 01-726-10071.0	ASTM C 158	10/15/01	J. L. Doldan, P.E.
10.	ETC 01-726-11204.0	ASTM D 1929	09/24/01	J. L. Doldan, P.E.
11.	ETC 01-726-11204.0	ASTM D 635	09/24/01	J. L. Doldan, P.E.
12.	ETC 01-726-11204.0	ASTM D 2843	09/24/01	J. 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. Sales of assets letter issued by Eastman Chemical Company, dated 12/06/2012, signed by Edwin Williamson.

**"Submitted under NOA # 11-1102.10"**

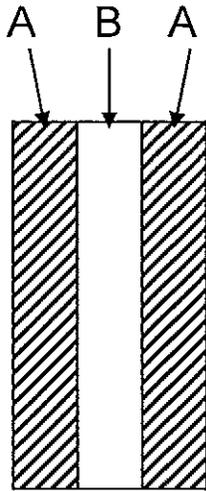
2. Statement letter of code conformance to 2007 and 2010 FBC, issued by W. W. Schaefer Engineering & Consulting, P.A., dated 10/26/2011, signed and sealed by Warren W. Schaefer, P.E.
3. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A., on 10/24/2011, signed and sealed by Warren W. Schaefer, P.E.

  
03/19/2013

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 12-1231.09  
Expiration Date: April 14, 2018  
Approval Date: March 28, 2013

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 12-1231.09  
 Expiration Date 04/14/2018

By *[Signature]*  
 Miami Dade Product Control



**SECTION**

## Saflex® HP

### Product Description

Manufactured By: Eastman Chemical Company  
 Description: Saflex® HP is a clear and/or colored Polyvinyl Butyral between 10 – 34% plasticizer for lamination between two or more lites of glass. A typical glazing is made of the following components (minimum thicknesses indicated - multiple layers of interlayer to be used as necessary):

A - 2.3 mm (0.090-in) Annealed Glass

B - 0.76 mm (0.030-in) Saflex® HP Interlayers (Clear or Colored)

### Clear Product Properties

Description	Test	PVB [10]	PVB [34]
Flame Spread Index	ASTM E84	10	70
Smoke Develop Index	ASTM E84	5	185
Self Ignition Temp	ASTM D1929	720°F	740°F
Rate of Burning	ASTM D635	1.54 in/ min.	0.79 in/min
Smoke Density	ASTM 2843	--	0.7%
Avg Mod of Rupture	ASTM C158	Delta:10% Before: 11090 psi After: 9976 psi	Delta: 7.8% Before: 5319 psi After: 5490 psi

- (1) Specimen: Laminated glass with Saflex® HP type interlayer
- (2) Saflex® HP type interlayer by itself (unprotected) does NOT comply with Florida Building Code.
- (3) Weathering per section 2612 of the Florida Building Code

### Color Product Properties

Material Designation Vanceva ® & Saflex® Solar/Colorants	Smoke Density Rating ASTM D 2843	Dade Notification #
Clear	5%	ETC-11-726-25079.0
White	20%	ETC-11-726-25076.0
Black	2%	ETC-11-726-25080.0
Blue	5%	ETC-11-726-25077.0
Yellow	9%	ETC-11-726-25079.0
Red	10%	ETC-11-726-24882.0

4	CHANGED FOR LABEL CALRIFICATION	04/06/12
3	CHANGED PRODUCT NAME TO SAFLEX	09/12/08
2	DELETED RM & IIIG OPTIONS	03/24/03
1	ADDED INTERLAYER "B"	11/14/01
REV.#	DESCRIPTION	DATE

DEC 11 2012

WARREN W. SCHAEFER, P.E.  
 STRUCTURAL ENGINEER  
 P.E. NO. 44135

W.W. SCHAEFER ENGINEERING & CONSULTING P.A.  
 STRUCTURAL CONSULTING ENGINEERS  
 7450 15<sup>TH</sup> COURT N  
 PALM BEACH GARDENS, FL 33418  
 PHONE: 561-744-3424

### Eastman Chemical Company

730 Worcester Street, Springfield, MA 01151  
 Phone: 413-730-3413; FAX 508-861-0127

Title: **Saflex® HP Interlayers for Laminated Glass**

Drawing No. 1814      Drawn by:      Drawing Date 04/06/12      Sheet No. 1 OF 2

## Extruded Multi-layer Properties

Footnote	Description	Test	Dade County Criteria	Saflex® Multi-layer Series (2)
(1)	Test for Smoke Density	ASTM D 2843	Passed (<75%)	26.6%
(1)	Self Ignition Temperature	ASTM D 1929	Passed (>650°F)	750°F
(1)	Rate of Burning	ASTM D 635	Passed (C-1:<1.0 in/min)	---
(1)	Average Time of Burning	ASTM D 635	---	< 5 sec.
(1)	Average Extent of Burning	ASTM D 635	---	0.51 in
(1) & (3)	Average Modulus of Rupture	ASTM C 158	Passed (<10.0%)	Delta:4.9% Before: 3842 psi After: 4042 psi

- (1) Specimen: Laminated glass with Saflex® Multi-layer interlayer
- (2) Interlayer by itself (unprotected) does NOT comply with Florida Building Code
- (3) Weathering per section 2612 of the Florida Building Code

### Interlayer Note(s):

Saflex® HP can be constructed as layers of Saflex, Saflex Multi-layer and Vanceva® PVB interlayers to add color, performance or thickness without the use of a PET film.

Saflex HP type interlayers are currently provided as: Saflex D series and Saflex Structural and encompasses products known as known as Saflex AG, Saflex DG, Saflex DM, Saflex DN, Saflex RM, Saflex PS and Saflex PV.

Saflex interlayers are known as Saflex, Saflex colors, Saflex Multi-layer, SilentGlass Technology™ and Vanceva Color and can carry designations such as: AR,CL,DA through DZ,,MG,NA,RA through RZ, SA through SZ, and VA through VZ. (e.g.: RB41, NA71).

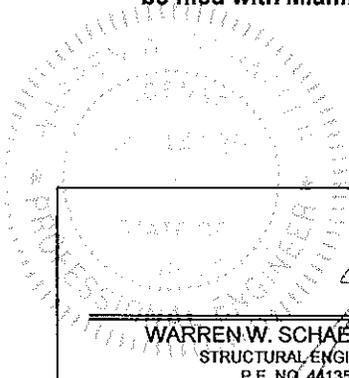
Saflex Multi-layer interlayers are known as: Q series (QA through QZ) and Silent Glass Technology (e.g.: QB 51, QS 41 etc...).

® Saflex and Vanceva are registered trademarks of Eastman Chemical Company  
 ™ SilentGlass Technology 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**

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 12-1231.09  
 Expiration Date 04/14/2018  
 By   
 Miami Dade Product Control

DEC 11 2012

 <p style="text-align: center;"><b>WARREN W. SCHAEFER, P.E.</b>                  STRUCTURAL ENGINEER                  P.E. NO. 44135</p>	<p><b>Eastman Chemical Company</b>                  730 Worcester Street, Springfield, MA 01151                  Phone: 413-730-3413; FAX 508-861-0127</p>								
<p><b>W.W. SCHAEFER ENGINEERING &amp; CONSULTING P.A.</b>                  STRUCTURAL CONSULTING ENGINEERS                  7480 150<sup>th</sup> COURTH NORTH                  PALM BEACH GARDENS, FL 33418                  PHONE: 561-744-3424</p>	<p><b>Title: Saflex® HP Interlayers for Laminated Glass</b></p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Drawing No.</td> <td style="border: none;">Drawn by:</td> <td style="border: none;">Drawing Date</td> <td style="border: none;">Sheet No.</td> </tr> <tr> <td style="border: none; text-align: center;">1814</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">04/06/12</td> <td style="border: none; text-align: center;">2 OF 2</td> </tr> </table>	Drawing No.	Drawn by:	Drawing Date	Sheet No.	1814		04/06/12	2 OF 2
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