



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

**E.I. DuPont De Nemours & Co., Inc.**  
**Chestnut Run Plaza, 712/161, P.O. Box 80712**  
**Wilmington, DE 19880-0712**

**SCOPE:** This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: DuPont Spallshield® 457 Interlayer**

**APPROVAL DOCUMENT:** Drawing No. **203.1**, titled "DuPont Spallshield® 457 Interlayer", Sheet 1 of 1, dated 02/20/09, prepared by E. I. DuPont De Nemours & Co., Inc, signed and sealed by Allan A. Kozich, P.E., bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: None**

**LABELING:** Laminated lites under this Product Approval shall be permanently marked in a corner of the glass with: "MDCA-Spallshield®", standing for "Miami-Dade County Approved – Spallshield®", and the laminator's identification mark. These marks shall be applied by the individual laminator producing the finished laminated glass product containing the Spallshield® interlayer.

**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 renews NOA # 09-0312.01 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.**



*Signature*  
 01/21/10

**NOA No. 09-1228.05**  
**Expiration Date: January 13, 2011**  
**Approval Date: February 10, 2010**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS "Submitted under NOA # 09-0312.01"**

1. Drawing No. 203.1, titled "DuPont Spallshield® 457 Interlayer", Sheet 1 of 1, dated 02/20/09, prepared by E. I. DuPont De Nemours & Co., Inc, signed and sealed by Allan A. Kozich, P.E.

**B. TESTS "Submitted under NOA # 00-0503.02"**

|    | <u>Test report</u> | <u>Standard</u> | <u>Date</u> | <u>Signature</u>     |
|----|--------------------|-----------------|-------------|----------------------|
| 1. | ETL 567925         | ASTM D1929      | 08/26/96    | D. K. Tucker, P.E.   |
| 2. | ETL 567854         | ASTM D635       | 08/26/96    | D. K. Tucker, P.E.   |
| 3. | ETL 567850         | ASTM E84        | 08/26/96    | D. K. Tucker, P.E.   |
| 4. | ETL 567852         | ASTM D635       | 08/26/96    | D. K. Tucker, P.E.   |
| 5. | ETL 567923         | ASTM D1929      | 08/26/96    | D. K. Tucker, P.E.   |
| 6. | SGS 509620-R       | ASTM G26        | 01/30/97    | D. H. Mangnall, P.E. |
| 7. | SGS 120046-R       | ASTM D638       | 01/31/97    | D. H. Mangnall, P.E. |

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Testing agreement letter issued by Architectural Testing, Inc, dated 11/18/09, signed by Dawn M. Chaney.
2. No change letter issued by E.I. DuPont De Nemours & Co., Inc., dated 02/23/09, signed by Steven M. Hansen, P.E., Ph.D. "Submitted under NOA # 09-0312.01"
3. Code Compliance letter issued by A. A. Kozich & Associates, Inc., on 08/16/04, signed and sealed by Allan A. Kozich, P.E.
4. No Financial Interest letter issued by C. A. Anthony employed by E.I. DuPont De Nemours & Co., Inc., on 08/11/04 and notarized by J. L. Fabian.
5. Non-financial interest letter issued by A. A. Kozich & Associates, Inc., on 08/18/04, signed and sealed by Allan A. Kozich, PE. "Submitted under NOA # 04-0818.01"



01/21/10

Carlos M. Utrera, P.E.

Product Control Examiner

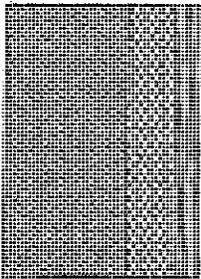
NOA No. 09-1228.05

Expiration Date: January 13, 2011

Approval Date: February 10, 2010

# DUPONT SPALLSHIELD® 457 INTERLAYER

## PRODUCT DESCRIPTION



MANUFACTURED BY: E.I. DUPONT DE NEMOURS & CO., INC.  
 A PLASTIC INTERLAYER MATERIAL (B & C) WHICH IS FACTORY LAMINATED TO GLASS (GLASS IS EXTERIOR) COMBINING AN INNER LAYER OF DUPONT PVB AND A LAYER OF ABRASION-RESISTANT CLEAR POLYESTER. A TYPICAL GLAZING IS MADE OF THE FOLLOWING COMPONENTS, (MINIMUM THICKNESS INDICATED - MULTIPLE PLIES OF COMPOSITE LAYERS CAN BE USED AS NECESSARY):

A B C  
SECTION

|   |   |  |
|---|---|--|
| A | - | 3/32" (2.3 mm) Annealed Glass (or HS/T)              |
| B | - | 0.045" (1.1 mm) DuPont Butacite® PVB Interlayer      |
| C | - | 0.007" (0.18 mm) DuPont Abrasion-resistant Polyester |

## MATERIAL CHARACTERISTICS

Spallshield® 457 PVB Glass/Plastic Composite Material

| Designation                | Test       | Properties  |
|----------------------------|------------|-------------|
| Self Ignition Temperature  | ASTM D1929 | 671 F       |
| Flash Ignition Temperature | ASTM D1929 | 698 F       |
| Flame Spread Index         | ASTM E84   | 95          |
| Smoke Developed Index      | ASTM E84   | 165         |
| Average Burning Rate       | ASTM D635  | 0.75 in/sec |
| Average Extent of Burning  | ASTM D635  | 2.95 inches |
| Average Time of Burning    | ASTM D635  | 3.93 min.   |

## Butacite® PVB Interlayer

| Designation  | Test       | Properties   |
|--|------------|--------------|
| Flash Ignition Temperature                                   | ASTM D1929 | 698 F        |
| Self Ignition Temperature                                    | ASTM D1929 | 716 F        |
| Average Extent of Burning                                    | ASTM D635  | 0.57 in.     |
| Average Time of Burning                                      | ASTM D635  | 0.86 min     |
| Ultimate Tensile Strength                                    | ASTM D638  | * Weathering |
| * WEATHERING PER SECTION 2605.2 OF THE FLORIDA BUILDING CODE |            | Before       |
|  |            | After        |
|  |            | 32,200 psi   |
|  |            | 29,900psi    |

THIS IS A COMPONENT APPROVAL AND DOES NOT INCLUDE AN EVALUATION OF STRUCTURAL PERFORMANCE OF THIS COMPONENT. SYSTEMS INCORPORATING THIS COMPONENT SHALL APPLY FOR A PRODUCT APPROVAL TO THIS OFFICE AND SHALL SUBMIT TEST REPORTS AND OTHER REQUIRED DOCUMENTS SHOWING THAT THE SYSTEM USING THIS COMPONENT WILL RESIST THE LOADS ACCORDING TO CHAPTER 16 OF THE FLORIDA BUILDING CODE.

### PRODUCT REVISED

as complying with the Florida Building Code

Acceptance No 09-0312.01  
 Expiration Date 01/13/2010

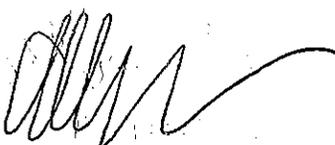
By [Signature]  
 Miami Dade Product Control Division

### PRODUCT RENEWED

as complying with the Florida Building Code

Acceptance No 09-1228.05  
 Expiration Date 01/13/11

By [Signature]  
 Miami Dade Product Control Division

|  |  |
|--|--|
| <br><br>MAR 07 2009 | <b>DuPont Spallshield® 457 Interlayer</b><br>E.I. duPont de Nemours & Co., Inc.<br>DuPont P&IP - GLS<br>Chestnut Run Plaza Bldg 712/161<br>P. O. Box 80712<br>Wilmington DE 19880-0712<br>Phone: 302-999-2125<br>Dwg. # 203.1 rev 1 Sheet 1of 1<br>Drawing Date: 02/20/09<br>Allan A. Kozich, PE<br>Registration # 16864 |
|--|--|