



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1107  
MIAMI, FLORIDA 33130-1563  
(305) 375-2902 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

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

**Zircon Corporation  
322 Moore Lane  
Collierville, TN 38017**

**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: Series "Astrocure A 5000 G System" Laminated Glass – Component (N. I.)**

**APPROVAL DOCUMENT:** Drawing No. **G03-01**, titled "Astrocure A 5000 Laminate" dated 08/07/03, with last revision on 10/12/09, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, 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.**

**LIMITATIONS:** Product Description Layer "B – 0.060 Astrocure® A 5000" shall be "RESIN" sheet.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**REVISION** 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 No. 03-0905.02** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



*J. Gascon  
11/4/09*

**NOA No. 09-0127.02  
Expiration Date: January 15, 2014  
Approval Date: November 25, 2009  
Page 1**

**Zircon Corporation**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **G03-01**, titled "Astrocure A 5000 Laminate" dated 08/07/03, with last revision on 10/12/09, prepared by Al-Farooq Corporation, signed and sealed by Arshad Viqar, P. E.

**B. TESTS**

1. Laboratory Reports	Tests	Dates	Signatures
1. ETC 03-761-13137.0	ASTM D 635	03/04/03	J. L. Doldan, P. E.
2. ETC 03-761-13137.0	ASTM D 1929	03/04/03	J. L. Doldan, P. E.
3. ETC 03-761-13137.0	ASTM D 2843	03/04/03	J. L. Doldan, P. E.
4. HETI 03-A001	ASTM G155	06/09/03	R. E. Droz-Seda, P. E.
5. HETI 03-T034	ASTM D638	06/09/03	R. E. Droz-Seda, P. E.
6. HETI 03-T035	ASTM D638	06/09/03	R. E. Droz-Seda, P. E.

*(Submitted under previous NOA No. 03-0905.02)*

2. Test reports on: 1) Boil Test, per ANSI Z 97.1 of Astrocure® A 5000 G, prepared by Intertek ETL Semko, Test Report No. **ETL 3064565-001**, dated 10/04/04, signed by Brian Bishop.

**D. QUALITY ASSURANCE**

1. Miami-Dade Building Code Compliance Office (BCCO).

**E. CALCULATIONS**

1. None.

**F. MATERIAL CERTIFICATIONS**

1. Tests of the Astrocure® 5000 G Resin sheet, dated January 01, 2009, issued by Piedmont Chemical Industries, LLC.

Laboratory Report	Tests	Date	Signature
1. PCI F-170801 A	ASTM D 635	07/14/08	S. Matthews, Q.C.
2. PCI F-170801 A	ASTM D 638	07/14/08	S. Matthews, Q.C.
3. PCI F-170801 A	ASTM D 2843	07/14/08	S. Matthews, Q.C.
4. PCI F-170801 A	ASTM C 1363	07/14/08	S. Matthews, Q.C.
5. PCI F-170801 A	ASTM D 1929	07/14/08	S. Matthews, Q.C.
6. PCI F-170801 A	ASTM G 155	07/14/08	S. Matthews, Q.C.
7. PCI F-170801 A	ANSI Z 97.1	07/14/08	S. Matthews, Q.C.
8. PCI F-170801 A	ANSI Z 26.1	07/14/08	S. Matthews, Q.C.
9. PCI F-170801 A	16 CFR 1201	07/14/08	S. Matthews, Q.C.
10. PCI F-170801 A	UL 752	07/14/08	S. Matthews, Q.C.



Jaime D. Gascon, P. E.  
Chief, Product Control Division

NOA No. 09-0127.02

Expiration Date: January 15, 2014

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Zircon Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. MATERIAL CERTIFICATIONS (CONTINUED)**

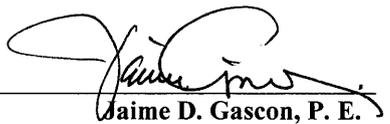
1. Material Safety Data Sheet for Astrocare<sup>®</sup> 5000 G, dated January 01, 2009, issued by Zircon Corporation.

**G. STATEMENTS**

1. Statement letter of conformance and no financial interest, dated October 14, 2009, signed and sealed by Arshad Viqar, P. E.
2. Private Labeling Agreement document in conformance to BCCO guidelines for the RESIN Manufacture, dated November 04, 2009 signed by Emil Delgado and Linda Bayha.
3. Laboratory compliance letter for Test Report No. **ETC 03-761-13137.0**, issued by ETC Laboratories, Inc., dated March 04, 2004, signed and sealed by Joseph L Doldan, P. E.  
*(Submitted under previous NOA No. 03-0905.02)*
4. Laboratory compliance letter for Test Report No. **HETI 03-A001, HETI 03-T034** and **HETI 03-T035**, issued by Hurricane Engineering & Testing, Inc., dated June 09, 2003, signed and sealed by Rafael E. Droz-Seda, P. E.  
*(Submitted under previous NOA No. 03-0905.02)*

**G. OTHERS**

1. Notice of Acceptance No. **03-0905.02**, issued to Zircon Corporation their Series “Astrocare A 5000 Laminated Glass”, approved on 01/15/04 and expiring on 01/15/09.



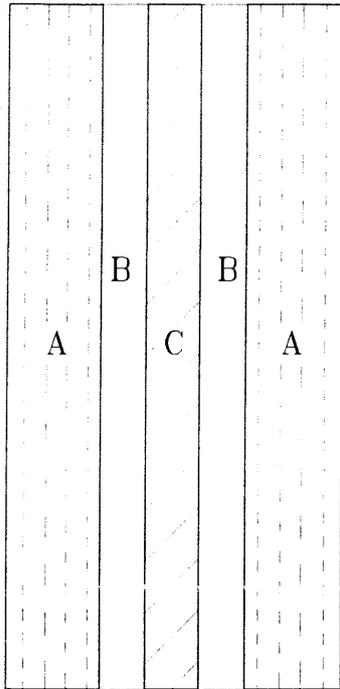
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Jaime D. Gascon, P. E.  
Chief, Product Control Division

NOA No. 09-0127.02

Expiration Date: January 15, 2014

Approval Date: November 25, 2009



## PRODUCT DESCRIPTION

MANUFACTURED BY 'ZIRCON'  
 A PLASTIC INTERLAYER MATERIAL FOR LAMINATION WITH GLASS ON BOTH SIDES.  
 A TYPICAL GLAZING IS MADE OF THE FOLLOWING COMPONENTS (THINNEST PRODUCT CONFIGURATION)

- A- 1/8" MIN. ANNEALED GLASS
  - B- .060" ASTROCURE A5000 INTERLAYER /RESIN
  - C- .070" MIN. POLYCARBONATE SHEET
- MANUFACTURED BY  
 SABIC INNOVATIVE PLASTICS (NOA #08-0305.02)
- B- .060" ASTROCURE A5000 INTERLAYER
  - A- 1/8" MIN. ANNEALED GLASS

## PRODUCT PROPERTIES

### PROPERTIES

### TEST

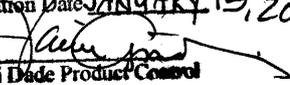
### RESULTS

SMOKE DENSITY RATING (MAX.)	ASTM 2843-93	48.4				
SELF IGNITION TEMP.	ASTM D1929-96	880°				
AVERAGE EXTENT OF BURNING	ASTM D635-96	11.6 mm				
AVERAGE TIME OF BURNING	ASTM D635-96	0.6 SEC. OR LESS THAN 5 SEC.				
TENSILE STRENGTH (MEAN)	ASTM D638-96	* <table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px;">BEFORE</td> <td style="padding: 2px;">AFTER</td> </tr> <tr> <td style="padding: 2px;">8486 PSI</td> <td style="padding: 2px;">8354 PSI</td> </tr> </table>	BEFORE	AFTER	8486 PSI	8354 PSI
BEFORE	AFTER					
8486 PSI	8354 PSI					

\* WEATHERING PER SECTION 2612 OF 2007 FLORIDA BLDG. CODE.

**NOTE:**

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 NOA TO THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION AND SHALL SUBMIT TEST REPORTS AND ALL OTHER REQUIRED DOCUMENTS SHOWING THAT THE SYSTEM USING THIS COMPONENT WILL RESIST THE LOADS ACCORDING TO CHAPTER 16 OF THE FLORIDA BUILDING CODE 2007.

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 09-0127.02  
 Expiration Date JANUARY 15, 2014  
 By   
 Miami Dade Product Control  
 Division

Engr: ARSHAD VIQAR  
 CIVIL  
 FLA. PE # 38863  
 C.A.N. 3538

  
**OCT 15 2009**

<b>a f c</b>	<b>AL-FAROOQ CORPORATION</b> ENGINEERS & PRODUCT DEVELOPMENT 1235 S.W. 87 AVE MIAMI, FLORIDA 33174 TEL. (305) 264-8100 FAX. (305) 262-6978	*ASTROCURE A5000* LAMINATE <b>ZIRCON CORPORATION</b> 322 MOORE LANE COLLIERVILLE, TENNESSEE. 38017 TEL. (901) 850-0561 FAX. (901) 850-0563	revisions: <table border="1" style="font-size: small; border-collapse: collapse;"> <tr><th>no</th><th>date</th><th>description</th></tr> <tr><td>A</td><td>12.11.03</td><td>REV. PER BCCO COMMENTS</td></tr> <tr><td>B</td><td>10.12.09</td><td>UPDATED FOR 2007</td></tr> </table>	no	date	description	A	12.11.03	REV. PER BCCO COMMENTS	B	10.12.09	UPDATED FOR 2007	drawing no. <b>G03-01</b> date: 08-07-03 scale: 1" = 4" sheet 1 of 1
	no	date	description										
A	12.11.03	REV. PER BCCO COMMENTS											
B	10.12.09	UPDATED FOR 2007											
GLAZING G03-01													