



**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.maimidade.gov/buildingcode](http://www.maimidade.gov/buildingcode)

**Sheffield Plastics, Inc.**  
**119 Salisbury Road**  
**Sheffield, MA 01257**

**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: Makrolon Polycarbonate Sheet AR, 15, GP and SL**

**APPROVAL DOCUMENT:** Drawing No. **G08-01**, titled "Polycarbonate Sheets ", sheet 1 of 1, dated 09/12/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, 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 Division.

**MISSILE IMPACT RATING: None**

**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.

**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 # 07-0313.04** 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.**



*Utrera*  
 10/30/08

**NOA No. 08-0926.15**  
**Expiration Date: August 27, 2012**  
**Approval Date: November 13, 2008**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **G08-01**, titled "Polycarbonate Sheets", sheet 1 of 1, dated 09/12/08, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

**B. TESTS**

	<u>Report No.</u>	<u>Test</u>	<u>Date</u>	<u>Signature</u>
1.	72305.01-106-18	ASTM D1929/2843/635/638	08/06/08	Joseph A. Reed, P.E.
2.	72305.02-106-18	ASTM D1929/2843/635	08/19/08	Joseph A. Reed, P.E.
3.	72305.03-106-18	ASTM D1929/2843/635	08/21/08	Joseph A. Reed, P.E.
4.	72305.04-106-18	ASTM D1929/2843/635	08/21/08	Joseph A. Reed, P.E.
5.	72305.05-106-18	ASTM D1929/2843/635	08/22/08	Joseph A. Reed, P.E.
6.	72305.06-106-18	ASTM D1929/2843/635	08/26/08	Joseph A. Reed, P.E.
7.	72305.07-106-18	ASTM D1929/2843/635	08/26/08	Joseph A. Reed, P.E.
8.	72305.08-106-18	ASTM D1929/2843/635	08/26/08	Joseph A. Reed, 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. Letter of code compliance issued by Al-Farooq Corporation, dated 09/23/08, signed and sealed by Humayoun Farooq, P.E.
2. Letter of no financial interest issued by Al-Farooq Corporation, dated 09/23/08, signed and sealed by Humayoun Farooq, P.E.
3. Laboratory compliance letters issued by Architectural Testing, Inc., for each test report listed above, signed and sealed by Joseph A. Reed, P.E.

**G. OTHER**

1. Notice of Acceptance No. **07-0313.04**, issued to Sheffield Plastics, approved on 04/26/07 and expiring on 08/27/08.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 08-0926.15

Expiration Date: August 27, 2012  
Approval Date: November 13, 2008

**PRODUCT PROPERTIES**

TEST DESCRIPTION	TEST METHOD	TEST RESULTS MAKROLON® POLYCARBONATE SHEET			
		GP 1/16" TO 1/2" THICKNESS	SL 1/8" TO 1/2" THICKNESS	AR 1/8" TO 1/2" THICKNESS	15 1/8" TO 1/2" THICKNESS
SELF IGNITION TEMP.	ASTM D1929	1040°F	1022°F	1040°F	1058°F
FLASH IGNITION TEMP.	ASTM D1929	824°F	824°F	806°F	842°F
SMOKE DENSITY RATING (MAX.)	ASTM 2843	24.3%	57.7%	50.9%	51.5%
AVERAGE RATE OF BURNING	ASTM D635	--	--	--	--
BURNING RATE CLASS	ASTM D635	CC1	CC1	CC1	CC1
TENSILE STRENGTH (MEAN)	ASTM D638	9536 PSI	9544 PSI		

\* BEFORE AFTER

\* WEATHERING PER SECTION 2612 OF FLORIDA BLDG. CODE 2004.

GP- GENERAL PURPOSE  
 SL- ENHANCED UV PROTECTION  
 AR- ABRASION AND UV RESISTANT  
 15- LONG TERM WEATHERABLE

POLYCARBONATE SHEETS CAN BE CLEAR OR COLORED WITH POLISHED, MATTE OR TEXTURED SURFACES.

**PRODUCT PROPERTIES**

TEST DESCRIPTION	TEST METHOD	TEST RESULTS MAKROLON HYGARD® SHEET						
		CG375 .390" OVERALL THICKNESS	CG500 .530" OVERALL THICKNESS	CG750 .780" OVERALL THICKNESS	BR 1000 1.05" OVERALL THICKNESS	BR 1250 1.30" OVERALL THICKNESS	BR 750 .775" OVERALL THICKNESS	MS1250 1.30" OVERALL THICKNESS
SELF IGNITION TEMP.	ASTM D1929			896°F		896°F	878°F	896°F
FLASH IGNITION TEMP.	ASTM D1929			806°F		824°F	680°F	698°F
SMOKE DENSITY RATING (MAX.)	ASTM 2843			42.7%		45%	33.8%	50.1%
AVERAGE RATE OF BURNING	ASTM D635			--		--	.405 IN./MIN.	.370 IN./MIN.
BURNING RATE CLASS	ASTM D635			CC1		CC1	CC2	CC2

**MAKROLON HYGARD® CG375**

3/16" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 3/16" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® CG500**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/4" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® CG750**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® BR1000**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 3/8" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 3/8" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® BR1250**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" MAKROLON POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® BR750**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" ACRYLIC SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**MAKROLON HYGARD® MS1250**

1/8" MAKROLON AR-1 POLYCARBONATE SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" MAKROLON OP SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/2" ACRYLIC SHEET  
 .025" POLYURETHANE INTERLAYER  
 1/8" MAKROLON AR-1 POLYCARBONATE SHEET

**PRODUCT DESCRIPTION:**

POLYCARBONATE SHEETS ARE EXTRUDED FROM POLYCARBONATE RESINS WITH PRIMARY USE AS GLAZING FOR WINDOWS, SKYLIGHTS AND LIGHT TRANSMITTING SYSTEMS. STANDARD SIZES ARE UPTO 120" LONG AND 96" WIDE. CUSTOM SIZES ARE ALSO AVAILABLE.

MAKROLON POLYCARBONATE MATERIAL COMPLIES WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004/2007 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

MAKROLON GP REPRESENTS THE UNCOATED POLYCARBONATE SHEET AND IS APPROVED FOR USE IN EXTERIOR APPLICATIONS WITHOUT THE UV PROTECTIVE COATING. MAKROLON GP ALSO INCLUDES: OP, GP MATTE, GP PEBBLE, GP PRISMATIC AND GP SATIN.

**NOTE:**

THIS IS A COMPONENT APPROVAL AND DOES NOT INCLUDE AN EVALUATION OF STRUCTURAL PERFORMANCE OF THIS COMPONENT. SYSTEMS INCORPORATING THESE COMPONENTS SHALL APPLY FOR A NOA TO THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION AND SHALL SUBMIT TEST REPORTS AND OTHER REQUIRED DOCUMENTS SHOWING THAT THE SYSTEM USING THESE COMPONENTS WILL RESIST THE LOADS ACCORDING TO CHAPTER 16 OF THE FBC 2004.

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 C.A.N. 3538

SEP 23 2008

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 08-0926.15  
 Expiration Date 03/27/2012  
 By [Signature]  
 Miami Dade Product Control  
 Division

afc

**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 1235 S.W. 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 GLAZING\G08-01

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POLYCARBONATE SHEETS  
**SHEFFIELD PLASTICS, INC.**  
 119 SALISBURY ROAD  
 SHEFFIELD, MA. 01257  
 TEL. (413) 528-7847 FAX. (413) 229-4047

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revisions:	no	date	by	description

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date: 09-12-08  
 scale: -  
 dr. by: HAMID  
 chk. by:

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drawing no.  
**G08-01**  
 sheet 1 of 1