

MIKE MILLER CRANE COMPOSITES INC 23525 W EAMES ST CHANNAHON IL 60410-3220

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## Subject: Procedure And/Or Report Material

The following material resulting from the investigation under the above numbers is enclosed.

Issue				
Date	Vol	Sec	Pages	Revised Date
	2		Revised Index Page(s) 1	2019/12/19
1999/08/	26 2	8	Cert of Compliance	
1999/08/	26 2	8	Revised Description Page(s) 1,3	2019/12/19
2011/02/	<b>'16 2</b>		New Test Record 6	2019/12/19

Inspections at your plant will be conducted under the supervision of Dominick Piscione, UL INSPECTION CENTER CENTRAL MIDWEST AREA OFFICE, UL LLC, 333 PFINGSTEN RD, NORTHBROOK, IL, United States, 60062., PHONE: 815 546 2574, EMAIL: Dominick.W.Piscione@ul.com

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <a href="http://ul.com/aboutul/locations">http://ul.com/aboutul/locations</a>.

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embossed or smooth designated by the manufacturer as "FIRE-X GLASBORD, FX-.09", "FSI.075" or "StructoGlas FRFRJ.09".

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#### DESCRIPTION

PRODUCT COVERED:

Flat reinforced plastic panels, embossed or smooth designated by the manufacturer as "FIRE-X GLASBORD, **FX-.09**", "**FSI.075**" or "StructoGlas FRFRJ.09".

FACTORY IDENTIFICATION:

LOCATION	IDENTIFICATION	
CHANNAHON, IL	"None"	

MANUFACTURING PROCESS:

The prebatch resin blend is piped to the machine head, where the catalyst is introduced and mixed. The resin is then deposited on a moving continuous sheet of cellophane or on a stainless steel belt through an oscillating nozzle.

Glass fiber is chopped into approximately 2 in. lengths and dropped into the liquid resin for smooth surface panel. Part of the glass is added as a veil. The resulting mat is then passed over one of a set of doctor rollers. A second sheet of cellophane is passed over the opposite doctor roller and the resin caused to disburse throughout the chopped glass fibers. After passing along a conveyor and through a series of heaters, the cellophane sheets are removed and panels cut from the continuous sheet of product.

	FORMULATION	
Mix 090 Doc.20090	Manufacturer	Percent By Weight
AOC J878-720 Resin	Alpha Owen Corning	23.4347
Alumina	Various	62.1021
MMA	Various	10.7566
TiO2	Various	1.5469+
GP Resin	Various	1.43+
Styrene	Various	0.1160+
(Inhibiter slurry) HQMME	Various	0.0001+
(Inhibiter slurry) GP Resin	Various	0.0005+
(Inhibiter slurry) MMA	Various	0.0002+
BYK A555	Various	0.0270+
BYK W996	Various	0.5859+

#### PIGMENT PASTE

Manufacturer - PDI/FERRO

Identification - 11-28130, 11-58690 or 11-88030.

## ALTERNATE PIGMENT PASTE

Manufacturer - PLASTICOLORS

Identification - CA08067, CA70173, CA7099, CA74781, CA80319, CA8091, CF03023, CF05039,CA80319 or CF2068.

FINISHED PRODUCT:

Weight -  $0.691b/ft^2$ , maximum.

Loss-On-Ignition - 53.6 percent maximum.

Thickness - 0.09 in. maximum. Average of 10 measurements for a 4 ft wide product, or an average of 20 measurements for 8 ft wide product.

Thermogravimetric Analysis - The thermogram obtained shall be compared to the thermogram in File R4079 F04-16-13 or F10-17-11, and found to be similar.

### MARKING:

1. Classified Company or "R4079".

SURFACE BURNING CHARACTERISTICS:

FIRE-X GLASBORD <b>FX09, FSI</b> .	
	or
	StructoGlas FRFRJ.09
FLAME SPREAD	25
SMOKE DEVELOPED	450

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

The following Surface Burning Characteristics represent the actual rating that was originally established for the product described in this Procedure Section.

FIRE-X GLASBORD <b>FX09, FSI</b>	
	or
	StructoGlas FRFRJ.09
FLAME SPREAD	15
SMOKE DEVELOPED	300

# CERTIFICATE OF COMPLIANCE

R4079 **Certificate Number** R4079-19990826 **Report Reference Issue Date** 2019-DECEMBER-30 **CRANE COMPOSITES INC** Issued to: 23525 W EAMES ST CHANNAHON IL 60410 This certificate confirms that **REINFORCED PLASTIC** representative samples of Flat reinforced plastic panels, embossed or smooth designated by the manufacturer as "FIRE-X GLASBORD, FX-.09", "FSI.075" or "StructoGlas FRFRJ.09". Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate. UL 723 - Test for Surface Burning Characteristics of Standard(s) for Safety: **Building Materials** Additional Information: See the UL Online Certifications Directory at https://iq.ulprospector.com for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

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Bruce Mahrenholz, Director North American Certification Program



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TEST RECORD NO. 6

At the request of the Applicant an alternate product designation "FSI.075" was added to Follow-Up Service Procedure R4079, Vol. 2, Sec. 8.

Since it is just an addition of an alternate product designation and no change in the product formulation or properties, It is our Engineering judgement that above change would not have any effect on the fire properties of those products tested per Standard ANSI/UL723, Eleventh Edition, dated April 19, 2018, "Test for Surface Burning Characteristics of Building Materials", (ASTM E84) as shown in TEST RECORD NO. 1 of this Report.

TEST RECORD No. 6 Summary

The results of the investigation covered by Test Record No. 6 indicates that the product complies with the applicable requirements, and therefore, such products are judged eligible to bear UL's mark as described in the TEST RECORD NO. 1of this Report.

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC or any authorized licensee of UL LLC.

Test Record No. 6 By:

Karen Foxx- Smith

Karen Foxx-Smith Senior Engineering Associate Building Science Technologies

Reviewed by:

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