



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

Date: 2019/12/30
Subscriber: 995109003
PartySite: 181173
File No: R4079
Project No: 4789281760
PD No: 19M36779
Type: R
PO Number: 100922

Subject: **Procedure And/Or Report Material**

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

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
	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
2011/02/16	2		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 <http://ul.com/aboutul/locations>.

If you'd like to receive updated materials FASTER, UL offers electronic access and/or delivery of this material. For more details, contact UL's Customer Service Professionals as shown above.

This material is provided on behalf of UL LLC (UL) or any authorized licensee of UL.

NBK File

UL INSPECTION CENTER 610

INDEX

<u>Models</u>	<u>Section</u>	<u>Report Date</u>
WITHDRAWN	5	1980-11-27
WITHDRAWN	6	1991-07-29
WITHDRAWN	7	1991-11-25
Flat reinforced plastic panels, embossed or smooth designated by the manufacturer as "FIRE-X GLASBORD, FX-.09", " FSI.075 " or "StructoGlas FRFRJ.09".	8	1999-08-26

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 - 0.69lb/ft², 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 FX-.09, FSI.075 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 FX-.09, FSI.075 or StructoGlas FRFRJ.09
FLAME SPREAD	15
SMOKE DEVELOPED	300

CERTIFICATE OF COMPLIANCE

Certificate Number R4079
Report Reference R4079-19990826
Issue Date 2019-DECEMBER-30

Issued to: CRANE COMPOSITES INC
23525 W EAMES ST
CHANNAHON IL 60410

**This certificate confirms that
representative samples of**

REINFORCED PLASTIC

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.

Standard(s) for Safety: UL 723 - Test for Surface Burning Characteristics of
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.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



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.

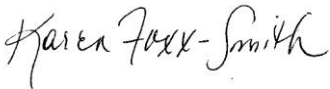
Since it is just an addition of an alternate product designation and no change in the product formulation or properties, It is our Engineering judgement that above change would not have any effect on the fire properties of those products tested per Standard ANSI/UL723, Eleventh Edition, dated April 19, 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. 1 of 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
Senior Engineering Associate
Building Science Technologies

Reviewed by:



Jamila Shawon
Staff Engineer
Building Science Technologies Building and