

# ROCHESTER INSULATED GLASS, INC. TEST REPORT

**SCOPE OF WORK**

TRIPLE PANE INSULATING GLASS UNIT PERFORMANCE EVALUATION

**REPORT NUMBER**

I3941.01-119-28 R0

**TEST DATE(S)**

05/04/18 - 09/19/18

**ISSUE DATE**

10/03/18

**RECORD RETENTION END DATE**

09/19/22

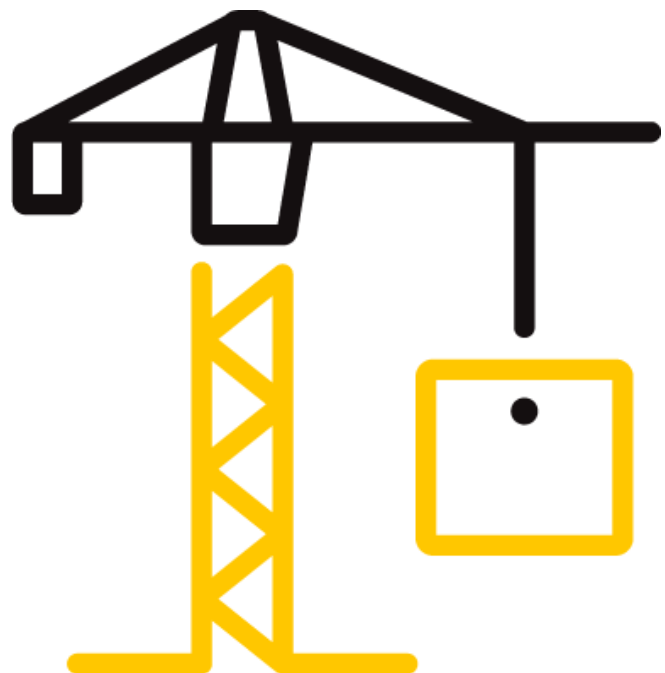
**PAGES**

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**DOCUMENT CONTROL NUMBER**

RT-R-AMER-Test-2770 (04/26/18)

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## TEST REPORT FOR ROCHESTER INSULATED GLASS, INC.

Report No.: I3941.01-119-28 R0

Date: 10/03/18

### REPORT ISSUED TO

#### ROCHESTER INSULATED GLASS, INC.

73 Merrick Cir.

PO Box 168

Manchester, NY 14504

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by Rochester Insulated Glass, Inc. - Manchester, NY to evaluate the insulating glass performance of 1-3/4" Triple IG Aluminum. The product descriptions and test results are reported herein. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

### SECTION 2

#### SUMMARY OF TEST RESULTS

	FROST POINT				VOLATILE FOG
	HIGH HUMIDITY	ACCELERATED WEATHERING	HIGH HUMIDITY	VISIBLE DEPOSITS	POST 7 DAY
<b>REQUIREMENT</b>	≤ -40	≤ -40	≤ -40	No Deposits	No Fog Observed
<b>PASS/FAIL</b>	Pass	Pass	Pass	Pass	Pass

For INTERTEK B&C:

**COMPLETED BY:** Jacob A. Weichert  
**TITLE:** Technician I  
**SIGNATURE:**  
**DATE:** 10/03/18

**REVIEWED BY:** Virgal T. Mickley, Jr., P.E.  
**TITLE:** Senior Staff Engineer  
**SIGNATURE:**  
**DATE:** 10/03/18

jaw:vtm/aaa

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### SECTION 3

#### TEST METHODS

The specimens were evaluated in accordance with the following:

**ASTM E546-14**, *Standard Test Method for Frost/Dew Point of Sealed Insulating Glass Units*

**ASTM E2188-10**, *Standard Test Method for Insulating Glass Unit Performance*

**ASTM E2189-10e1**, *Standard Specification for Insulating Glass Unit Performance and Evaluation*

**ASTM E2190-10**, *Standard Specification for Insulating Glass Unit Performance and Evaluation*

### SECTION 4

#### MATERIAL SOURCE

Test samples were provided by Rochester Insulated Glass, Inc. - Manchester, NY. The specimens were received on 04/10/18, in good condition and suitable for testing unless noted otherwise.

### SECTION 5

#### SAMPLE RETENTION

Tested specimens will be retained for thirty (30) days from the report date. Specimens which do not comply with the referenced standards will be retained for ninety (90) days from the report date. All specimens will be automatically discarded after the specified retention period is exhausted.

### SECTION 6

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Cory E. Straub	Intertek B&C
Jacob A. Weichert	Intertek B&C

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### SECTION 7

#### TEST SPECIMEN DESCRIPTION

**Manufacturer:** Rochester Insulated Glass, Inc. - Manchester, NY

**Product / Reference No.:** 1-3/4" Triple IG Aluminum

**Manufactured Date:** 04/03/18

**Overall Size:** 355mm x 505mm ± 6 mm

**Glass Thickness (#1 side, center, #6 side):** 6 mm, 6 mm, 6 mm

**Glass Type (#1 side, center, #6 side):** Clear; Clear; Clear

**Overall Thickness:** 44mm (nominal)

**Air Space #1:** 13mm **Air Space #2:** 13mm

**Spacer (per airspace):** 12.7mm clear aluminum spacer by Allmetal

**Corners (per airspace):** Four bent corners connected with one joiner by Allmetal

**Primary Sealant (per airspace):** PIB-29 polyisobutylene by Kommerling

**Secondary Sealant (per airspace):** 3723 A&B two component silicone by GE Momentive

**Desiccant (per airspace):** Molsive 2000 10x20 by UOP Molsib Absorbants; two sides filled

**Information obtained from:** Rochester Insulated Glass, Inc.

### SECTION 8

#### TEST RESULTS

##### ASTM E2188-10 Seal Durability Results

UNIT	PRIMARY SEAL WIDTH MIN.-MAX. (mm)		FROST POINT TEST RESULTS (°C) PER ASTM E546-14									
			INITIAL		HIGH HUMIDITY (14 DAYS)		ACCELERATED WEATHERING (252 CYCLES)		HIGH HUMIDITY (28 DAYS)		VISIBLE DEPOSITS (Y OR N)	
			1	2	1	2	1	2	1	2	1	2
1	4-5	3-6	<-62	<-62	<-62	<-62	<-52	<-56	-52	<-56	N	N
2	4-7	4-8	<-62	<-62	<-62	<-62	<-56	<-56	<-56	<-56	N	N
3	4-6	3-8	<-62	<-62	<-62	<-62	<-56	<-56	-48	<-52	N	N
4	3-7	4-6	<-62	<-62	<-62	<-62	-49	-51	-50	-40	N	N
5	4-7	5-7	<-62	<-62	<-62	<-62	<-56	<-56	<-56	<-56	N	N
6	4-6	4-6	<-62	<-62	<-62	<-62	<-56	<-56	<-56	<-56	N	N
<b>REQUIREMENT</b>	N/A		N/A		≤ -40		≤ -40		≤ -40		No Deposits	
<b>PASS/FAIL</b>	N/A		N/A		Pass		Pass		Pass		Pass	
<b>DATE</b>	05/04/18		05/04/18		05/23/18		08/16/18		09/19/18		09/19/18	

Note: Air space 1 is located on the exterior side; air space 2 is located on the interior side.

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**SECTION 9**

**TEST RESULTS**

**ASTM E2189-10e1 Volatile Fog Results**

UNIT	PRIMARY SEALANT WIDTH MIN.-MAX. (mm)		MUNTINS	DURATION OF EXPOSURE (TOTAL)	OBSERVATION RESULTS			
	1	2			INITIAL	POST 24 HR.	POST 7 DAY	
A	11	5-6	5-6	No	7 days	No Fog	N/A	N/A
	12	4-6	5-7	No	7 days	No Fog	N/A	N/A
B	13	5-7	5-7	No	7 days	No Fog	N/A	N/A
	14	5-7	4-7	No	7 days	No Fog	N/A	N/A
<b>REQUIREMENT</b>	Specimens shall not contain fog on the seventh observation day, from date of exposure completion					<b>PASS/FAIL</b>	Pass	
						<b>DATE</b>	06/21/18	
Average Temperature: 50°C					Average Temperature: 50°C			
<b>A</b>	Maximum Temperature: 52°C				<b>B</b>	Maximum Temperature: 52°C		
Minimum Temperature: 48°C					Minimum Temperature: 47°C			

**SECTION 10**

**CONCLUSION**

Meets the requirements of ASTM E2190-10 per E2188-10, E546-14, and E2189-10e1 test methods.

**SECTION 11**

**REVISION LOG**

REVISION #	DATE	PAGES	REVISION
0	10/03/18	N/A	Original Report Issue