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Notice of Change

To: IGCC®/IGMA® Approved Laboratories

From: Insulating Glass Certification Council (IGCC®) / IGMA®

Date: October 20, 2020

Subject: **IMPORTANT 2019 ASTM E2190 – Testing Requirements Clarification**

It has been brought to the attention of IGCC® / IGMA® that additional clarification regarding the ASTM E2190-2019 Baseline testing requirements was needed. Under the 2019 revisions of ASTM E2188, E2189, E2190 Baseline testing is required on units without internal components.

Further clarification of these requirements is listed below:

- Baseline testing is performed separately from Internal Component testing and is to be completed once annually for each participant during regular submission of samples. This Baseline test will **have its own test report** and **will require fog testing to ASTM 2189-19**.
- Internal Component testing is a **separate test from the Baseline test**, with a **separate test report**, and the results of this testing have no effect on Baseline testing. Internal component testing is to be completed Initially and at least each 4 years.
- Additionally, as per ASTM E2190-19, SES gas readings are to be taken, and reported, **after each phase of testing** to the ASTM E2649-12 Standard.

Attached please find information from the June 11, 2019 Memo that was sent out, that explains the impact the 2019 ASTM E2188, E2189, E2190 standards have on the IGCC/IGMA approved testing laboratories .

A copy of this Memo can also be found on the IGCC® website.

<https://igcc.org/reviewed-components-memos.aspx>

Thank you for your attention to these matters. If you have any questions, please feel free to contact us any time and as always, thank you for your support of the IGCC®/IGMA® Certification process.

Best regards,

Mitchell Majewski

ASTM E2190 – Understanding Baseline and Internal Component Testing

The concept is that regular testing is performed on this baseline set. Then, additional ASTM E2189 testing only may be performed on test units with internal components. IGCC/IGMA Guideline G.8 has been developed to define “what” internal component units to test and “when” to test them.

- 4.2 “Internal component performance – **If specifying internal components, additional testing to E2189 is required. This testing is supplementary and separate from the baseline set. It does not affect the results of the baseline set”**

G.8 Internal Components (IC)

Baseline testing to ASTM E2189 shall be performed during each regular certification test on units identical to those fabricated for ASTM E2188 testing. Initially and at least each 4 years, sets of three (3) double pane, five (5) multiple cavity test specimens shall be constructed under auditor witness for E2189 internal component performance testing utilizing all the components of an internal components (IC) system, which are used in the ultimate product.

How does this affect you, the testing Laboratory:

- 1) Once a set of units passes Internal Component Testing, you will only receive Internal Component units for each certified product, once every 4 years.
- 2) Internal Component testing is ONLY Fog Testing to ASTM E2189 and will have its own, separate, test report. This report can be submitted before the baseline set has completed testing.
- 3) When submitting a Internal Components test report you must indicate that internal components were tested.
- 4) **Baseline testing IS the same testing you have always done**, and will have its own, separate test report.
- 5) Baseline testing must include Fog Testing to ASTM E2189.
- 6) When submitting a Baseline test report you must indicate that no internal components were tested.

ASTM E2190 – Taking SES Gas Readings After EACH Phase of E2188 Testing

- 6.1.5 **After each phase of E2188 testing, measure and record again the frost dew point of the six specimens. If gas filling is specified, measure and record again the argon gas concentration of each specimen cavity.**

How does this affect you, the testing Laboratory:

- 1) SES gas testing must be performed after each phase of testing (see attached sample data sheet)
- 2) Revisions must be made to your MSR to include the SES reading after EACH phase of testing

X1. EXAMPLE DATA SHEET FOR THIS SPECIFICATION

X1.1 See Fig. X1.1.

Date _____
 Manufacturer _____ Code _____ Report No. _____
 Address _____
 Attention _____ Telephone No. _____

Description of Test Specimens:

Size (width by height) _____ Glass thickness and type _____
 Type of Spacer and Finish _____
 Type and Amount of Desiccant _____
 Type of Sealant(s) _____
 Other Features (band, barrier coat, corner, etc.) _____
 Manufacture Date (month/year) _____
 Date Received at Laboratory _____ Date Testing Started _____

Test Unit #	E2189 Fogging Test (7 Days)		E2188 Weathering and Gas Filling															
			Initial Measurements				Intermittent Measurements (1) Post 1st High Humidity Phase (14 days)				Intermittent Measurements (2) Post Weather Cycle Phase (252 cycles)				Final Measurements Post 2nd High Humidity Phase (28 days)			
			Frost/Dew Point.		Ar Concentration		Frost/Dew Point.		Ar Concentration		Frost/Dew Point.		Ar Concentration		Frost/Dew Point.		Ar Concentration	
			Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)	Cavity 1	Cavity 2 (if reqd.)
	Fog Present Yes/No	Fog Present Yes/No	°C	°C	%	%	°C	°C	%	%	°C	°C	%	%	°C	°C	%	%
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
					Ave. of all cavities Initial Ave. Ar Conc.				Ave. of all cavities				Ave. of all cavities				Ave. of all cavities Final Ave. Ar Conc.	
					Gas Reading				Gas Reading				Gas Reading				Gas Reading	

Gas reading must be taken and documented after each phase of testing