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To: IGMAC® Participants

From: AMS, Inc. (Certification Body)

Date: March 5, 2025

Subject: **IMPORTANT** Audit Requirements Update: ACPF Calculation

Hello,

In conjunction with the IGCC®/IGMA® & IGMAC® Normalization there will be an additional parameter tracked during test sample fabrication.

Summary of Changes

It will be a requirement of your auditor to calculate the adsorption capacity per foot (ACPF) for each prototype and certified product during **each fabrication, only**. This calculation will confirm consistency in desiccant quantity for each certified product.

To ensure your auditor can correctly calculate the ACPF as per the G.26 Guideline, please provide the following to your auditor at time of fabrication.

- Auditors will need to visually confirm the process of weighing the entire amount of desiccant (in grams) within one 355 mm x 508 mm (14"x20") unit.
- A copy of the desiccant supplier documentation for each certified product with the adsorption capacity percentage. It is required that you reach out to your desiccant supplier directly for the adsorption capacity documentation.
- A calibrated scale will be needed at your facility to accurately confirm the weight of desiccant within the unit.

(please see below Guideline G.26 as a reference)



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G.26 Adsorption Capacity per Perimeter Foot (ACPF)

For all Certified Products and prototypes for Certification testing, the fabricator shall have on file a copy of the **Desiccant supplier's specification showing the minimum equilibrium water adsorption capacity (weight %) as measured at 25°C (77°F) and 50% Relative Humidity (+/- 5%)**. Additionally, the fabricator shall document the weight of desiccant or desiccant system (grams) in the certified product or prototype. From this data, the fabricator shall document the adsorption capacity per perimeter foot (ACPF) using the following formula: (Modified 1/31/2012)

$$\text{ACPF (grams/ ft.)} = \frac{\text{Weight of Desiccant Product (g)} \times \text{Adsorption Capacity (wt \%)}}{\text{Perimeter (Feet)} \times 100}$$

Note: For all 14x20-in (350x500 mm) test specimens the perimeter is 5.66 feet (1.73 meters)

Please be aware that with the addition of calculating ACPF, you will be required to maintain a consistent or increased ACPF for regular production units and future test samples. Therefore, it is recommended that test samples are fabricated with either the worst-case scenario fill of desiccant or best representation of regular production. Please see guideline A.DE.1 for further clarification:

A.DE.1 A manufacturer may use the same IGCC®/IGMA® number on production units having air space thicknesses equal to, or greater than the model tested provided the desiccant Adsorption Capacity per Perimeter Foot (ACPF) remains the same (~ 10%) or is greater. A manufacturer may use the same IGCC®/IGMA® number on production units having an air space thickness smaller than the model tested provided the manufacturer maintains the same or more sides filled with desiccant. (Modified 1/31/12)

***Once you have increased your ACPF you cannot decrease more than 10% for future fabrications, you may only increase.** Please be sure to maintain or increase (if applicable) the same number of sides filled in for each fabrication to mitigate a decrease in ACPF. This process will be required for all certified products and all types of desiccants (Loose Fill, Imbedded & Desiccated Matrix).

Timeline for Implementation

These requirements will begin in the F25 cycle (March 15, 2025). As this has not been previously tracked, what is documented at your products' next fabrication will be considered as your baseline on which any future changed will be compared.

If you have questions on how to collect the desiccant weight for your product, please contact igmac@amscert.com for more information.

Thank you for your support of the IGCC®/IGMA® and IGMAC® Certification Process.



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Best Regards,

IGCC®/IGMA® & IGMAC® Certification Program