



# SPECIFIER BEWARE! Verify AMCA Certification

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*Webinar Moderator*



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  - Audience will be muted during the webinar.
  - Questions can be submitted anytime via the GoToWebinar platform and will be addressed at the end of the presentation.
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# Q & A

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  - Type your question in the box and click “Send”.
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# Prakash Asnani

AMCA Middle East Steering Committee  
Chair



# Nazme Mohsina

Technical Director,  
AMCA International





# ***SPECIFIER BEWARE! Verify AMCA Certification***

## **Purpose and Learning Objectives**

The purpose of this presentation is to provide a basic understanding of AMCA's Certified Ratings Program (CRP) and how to verify certification.

At the end of this presentation you will be able to:

1. Explain AMCA's CRP process.
2. Describe how to verify AMCA certification.
3. Identify the difference between “test” vs “certify”.
4. Explain the importance of specifying certified products.

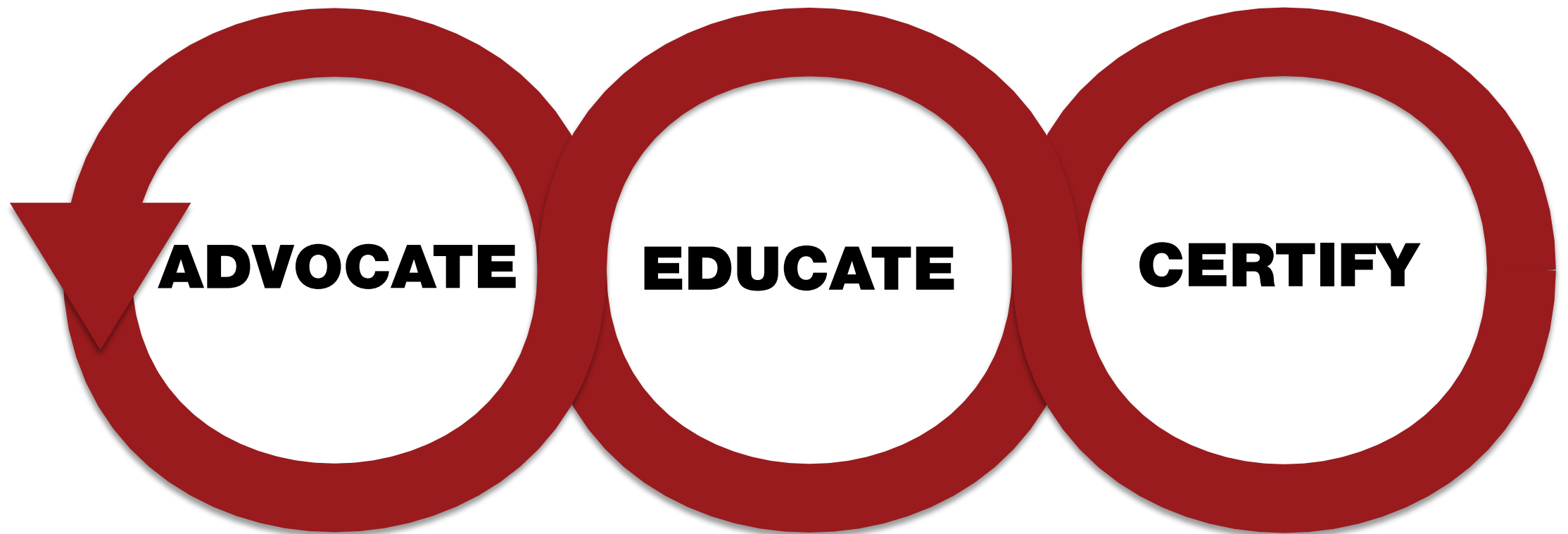
# Introduction to AMCA

- Not-for-profit manufacturer association
- Established 1917 with six member companies in USA
- Now global with almost 400 companies

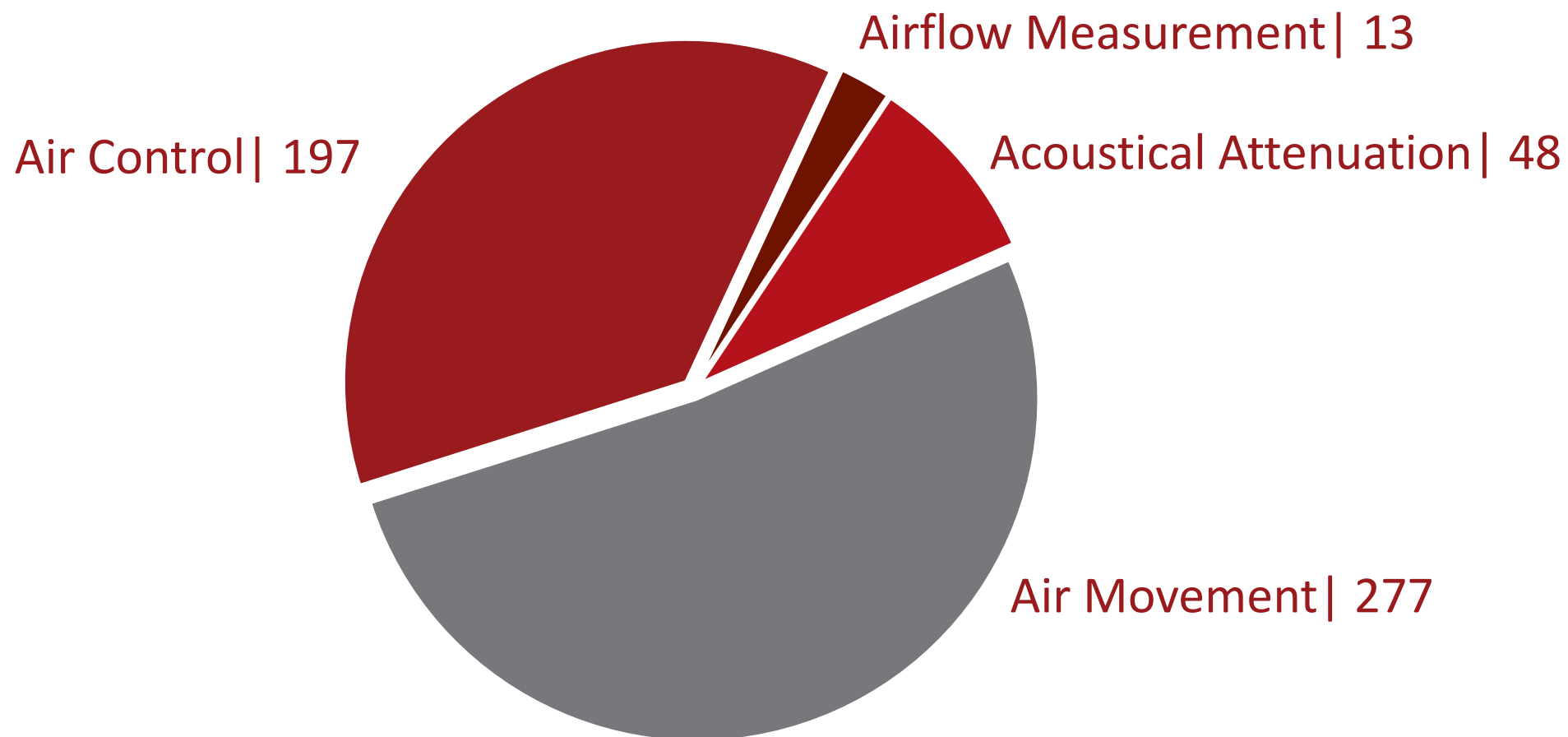
# The AMCA Mission

*To advance the knowledge of air systems and uphold industry integrity on behalf of AMCA members worldwide.*

# Three Initiatives



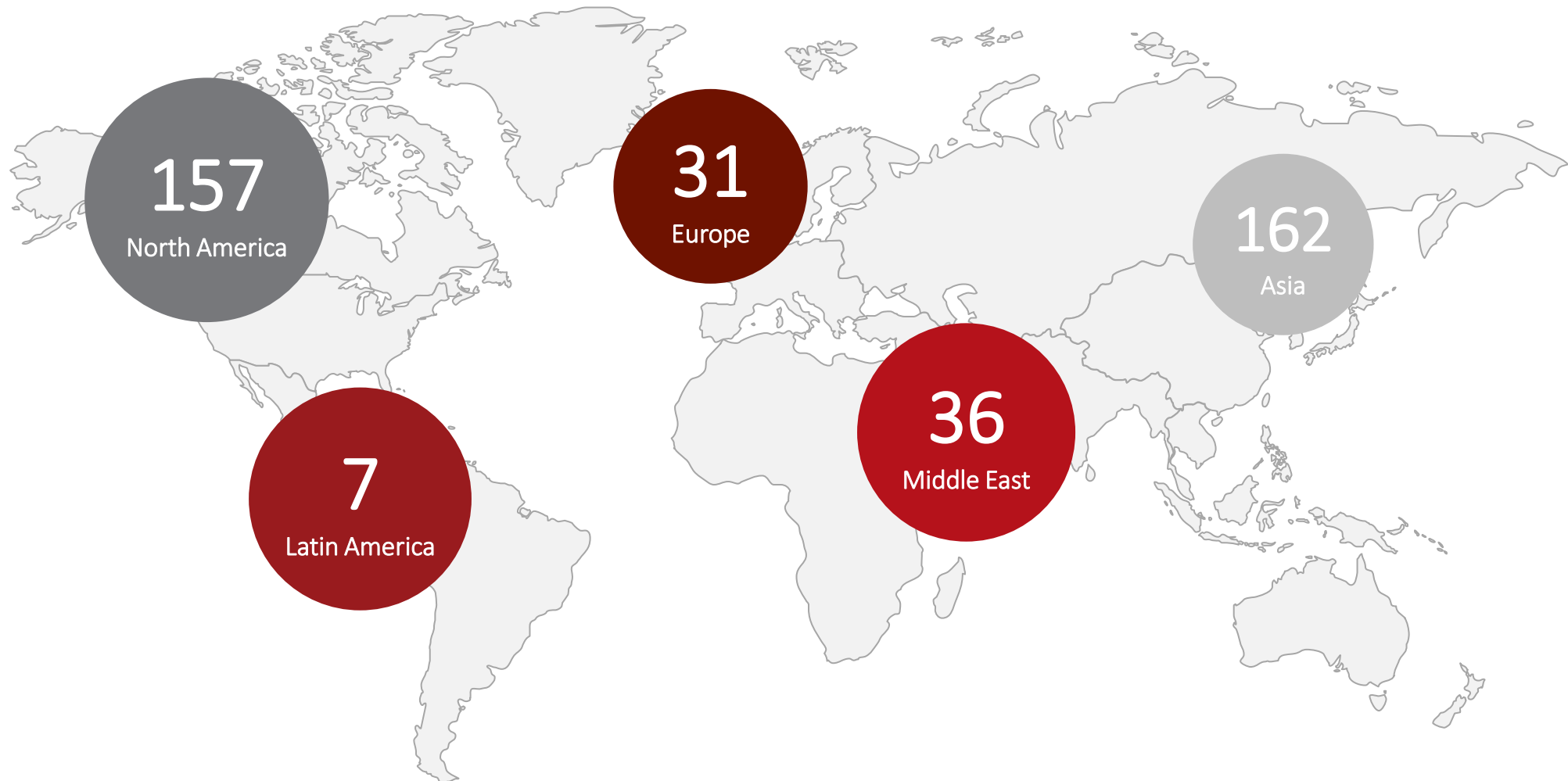
# What Our Members Manufacture





# Global reach. Local touch.

Truly international membership – Nearly 400 members worldwide



# AMCA Certified Ratings Program

- The AMCA CRP has been in existence for at least 50 years
- 4,000 product lines are certified by AMCA
- Why specify certified products?
  - Increased reliability of ratings
  - Apple-to-apples comparisons
  - Catalogs are up to date and accurate
  - “Check testing” ensures ratings are accurate over time

# Who can participate?

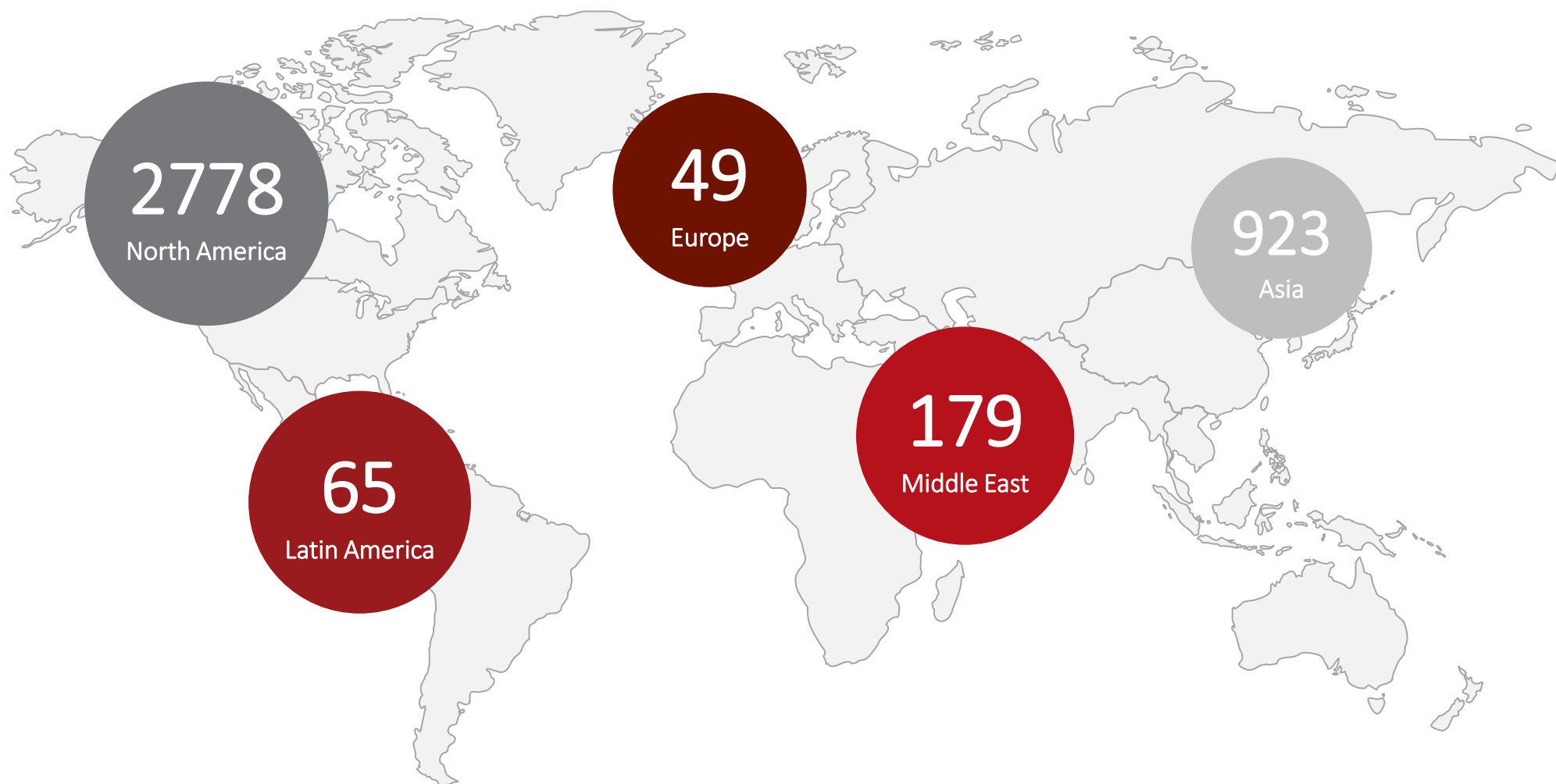
- Members
- Nonmembers
  - CRP Affiliates



≠

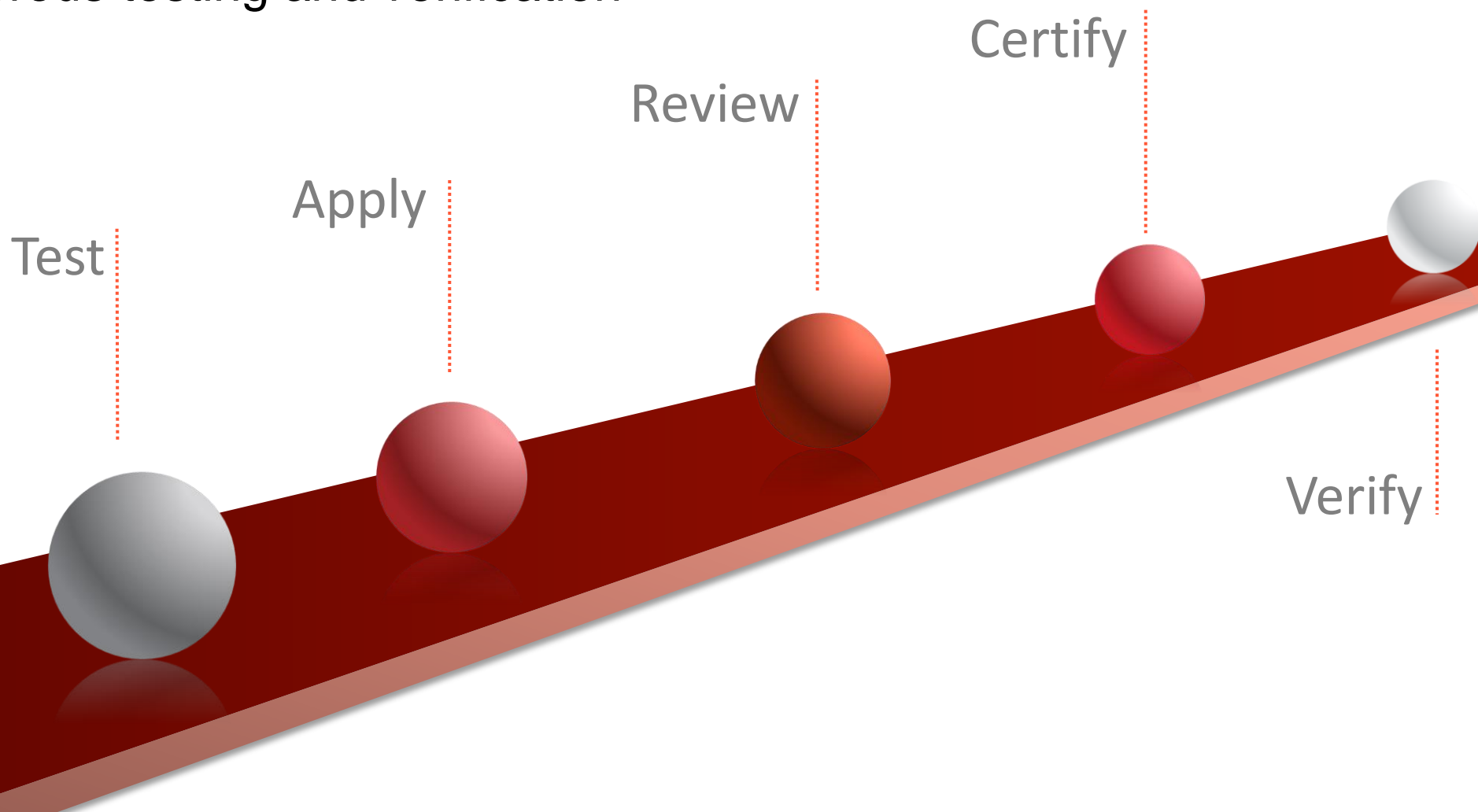


# Product Certifications



# Process for CRP products

Rigorous testing and verification



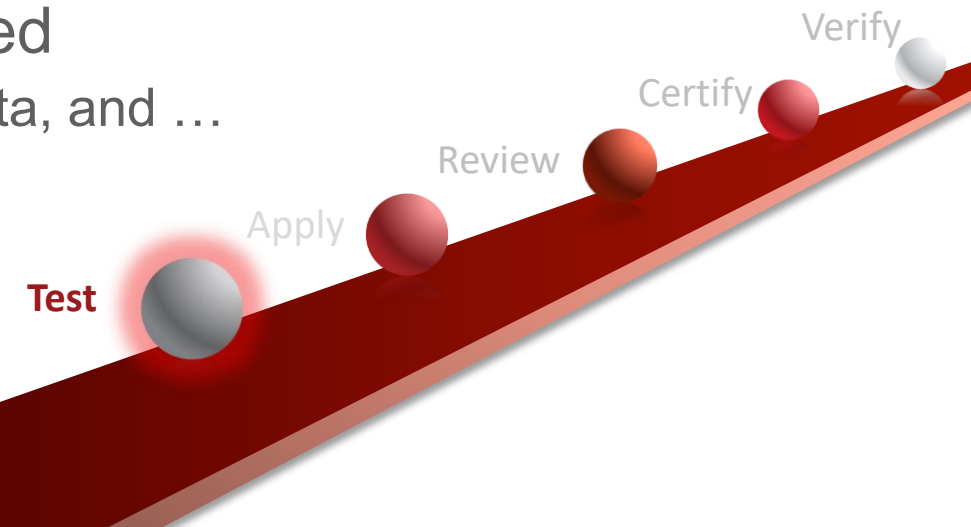


# But first...

- Sign the License Agreement
  - Contract between licensee and AMCA
  - Only signed once
  - An appendix is added for each product line certified

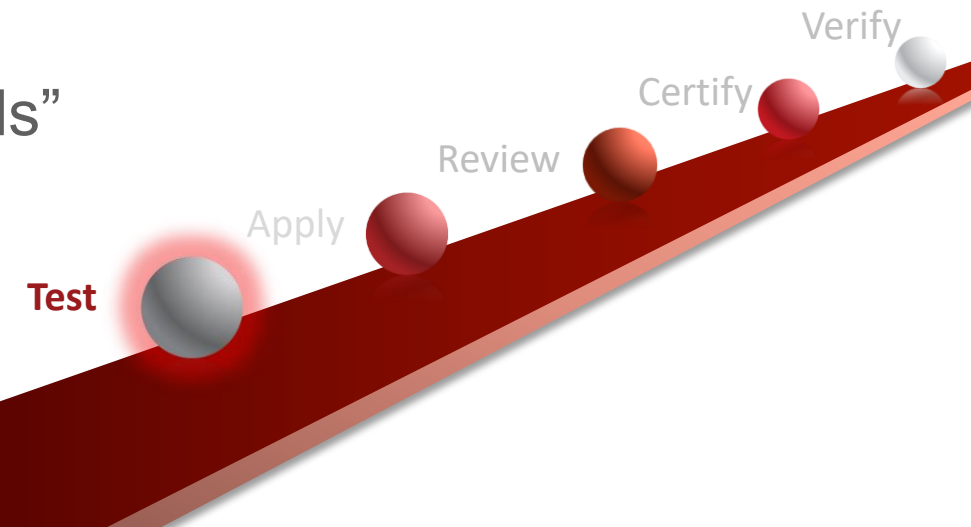
# Develop Test Program

- Often done with assistance from staff
  - Ensures that the test program will lead to certification
- Two types of documents control how products are tested and rated:
  - Standards describe how a product is tested
  - Publications describe how a product is rated
    - i.e. how catalog data is developed from test data, and ...
    - how catalog data is presented to the public



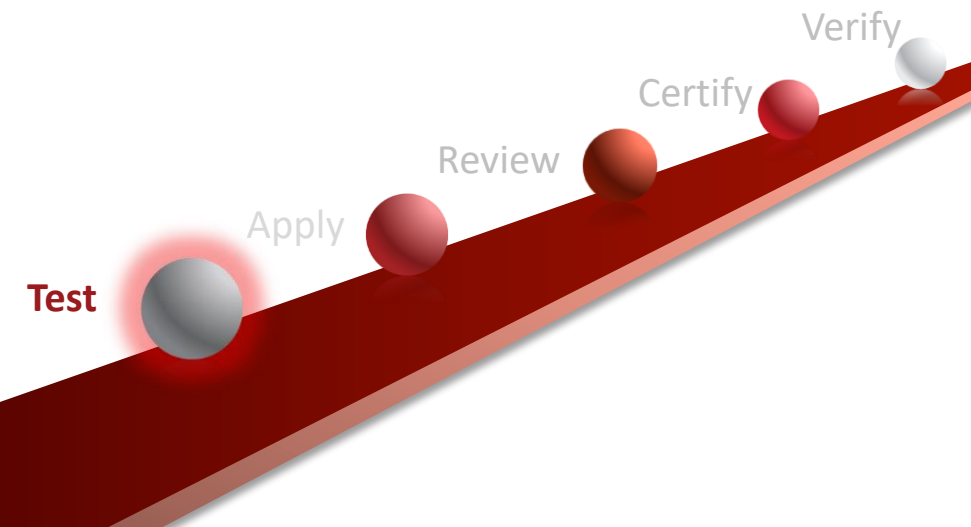
# Develop Test Program, continued

- Sizes
  - Not every size needs to be tested
  - Louvers are simple
  - Axial fans can be complicated – dozens of test sizes
- Sometimes, two products tested in exactly the same way can be rated differently.
  - e.g. AMCA Publication 211 “Rating Methods”



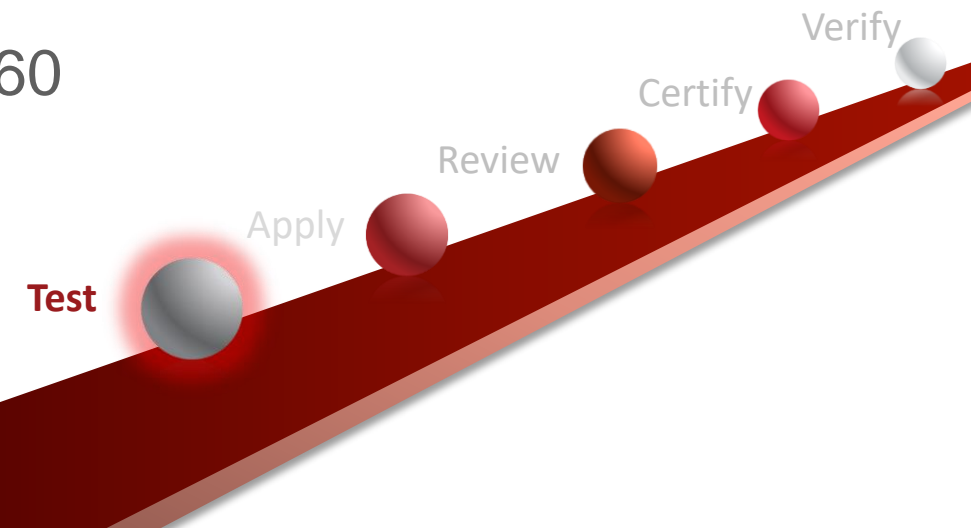
# Develop Test Program, continued

- Single-blade, multi-blade or curtain dampers
- Testing shall be conducted in both directions of airflow (front to back and back to front)
  - Test Figure 5.1
  - Test Figure 5.2
  - Test Figure 5.3
  - Test Figure 5.4
  - Test Figure 5.5



# Test the Product

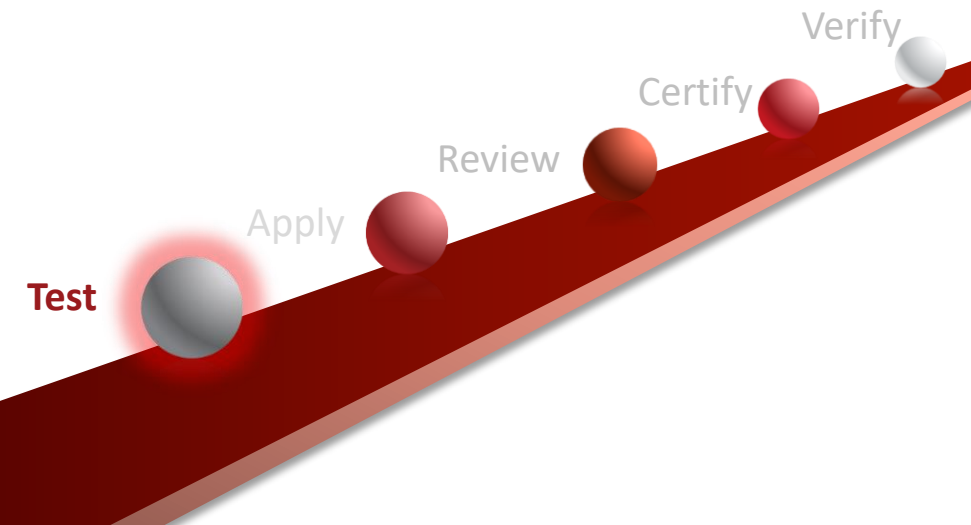
- Testing Standards for Air Movement Products
  - Fans: ANSI/AMCA 210, 300; ISO 5801, 5136, 13347
  - Air Curtain: ANSI/AMCA 220
  - Ceiling and Circulating Fans: ANSI/AMCA 230
  - Positive Pressure Ventilators: ANSI/AMCA 240
  - Induced Flow Fan: ANSI/AMCA 210 and 260
  - Jet Fan: ANSI/AMCA 250





# Test the Product, continued

- Testing Standards for Air Control Products
  - Louver: ANSI/AMCA 500-L, ASTM E 90
  - Damper: ANSI/AMCA 500-D
  - Acoustic Duct Silencer: ASTM E 477
  - Airflow Measuring Stations: AMCA 600



# Partners

 Kellen



한국기계전자시험연구원  
Fans

 CETIAT  
*ensemble, innover et valider*

Fans

  
ASIA AMCA

Fans and Dampers

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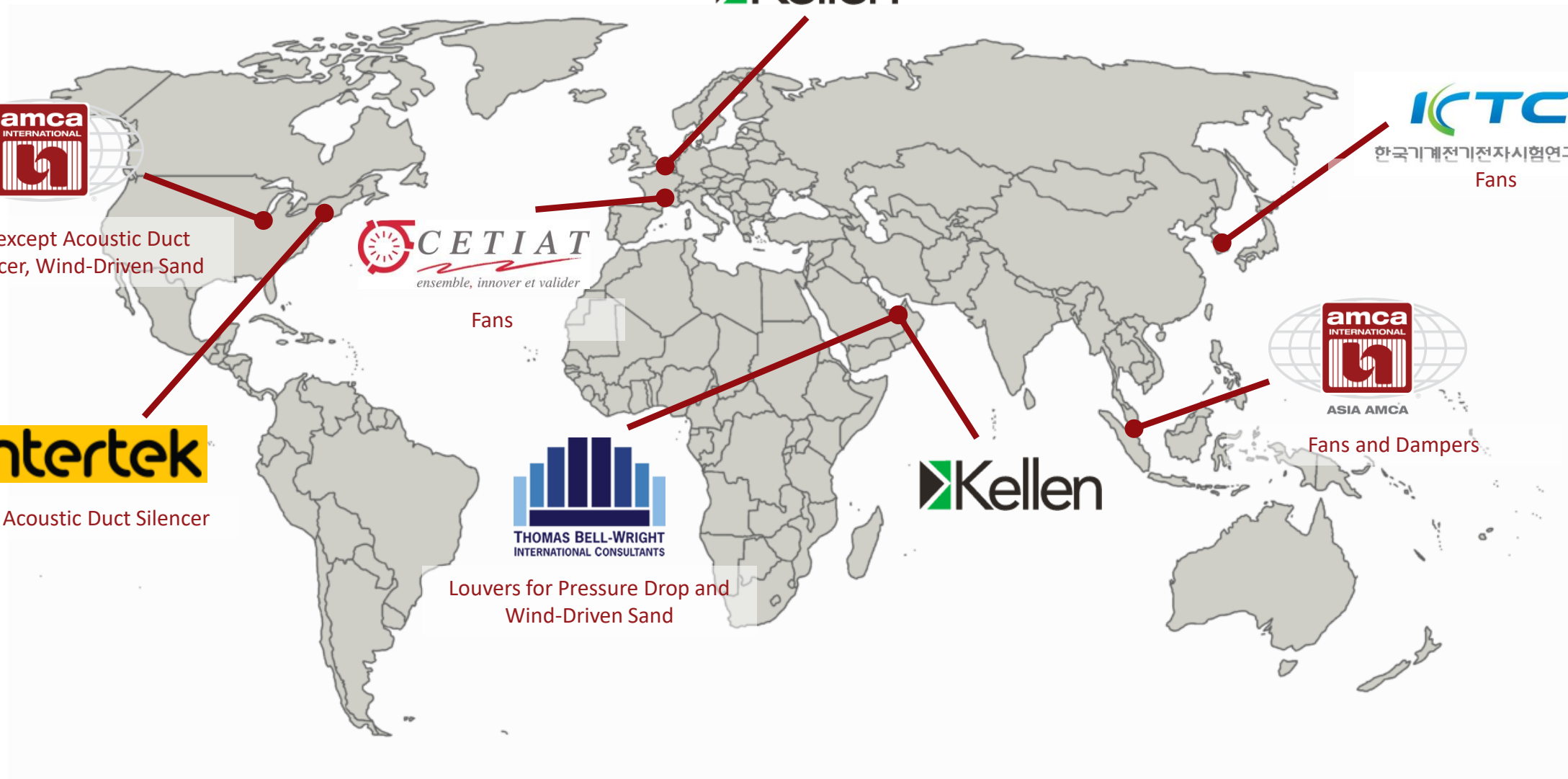
Louvers for Pressure Drop and  
Wind-Driven Sand



Acoustic Duct Silencer



All except Acoustic Duct  
Silencer, Wind-Driven Sand

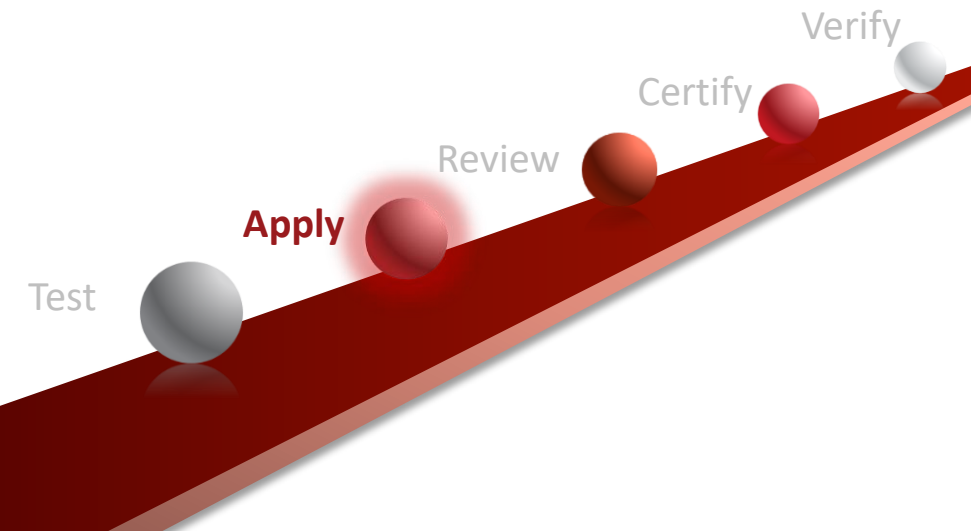


# AMCA Accredited Laboratories



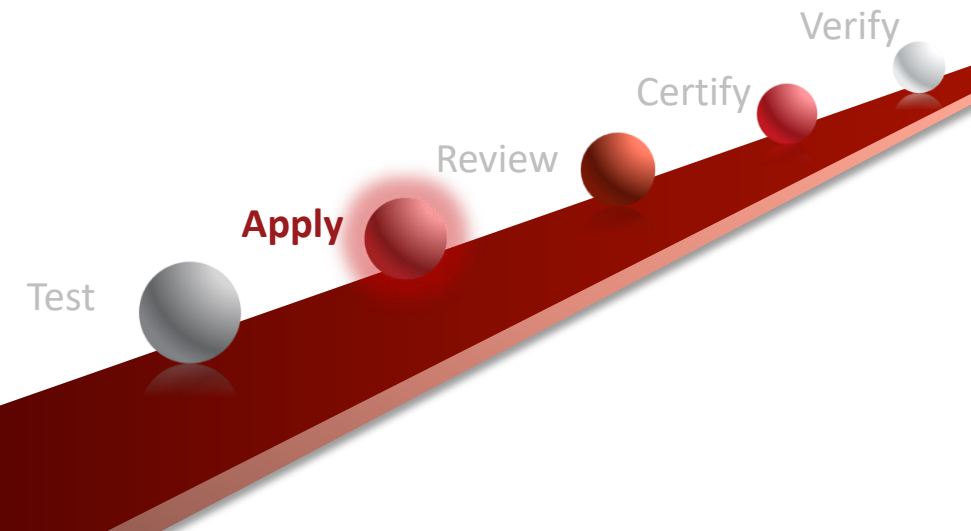
# Apply for Certification

- Submit Product Information
  - Product type
  - Product size
  - Dimensions
  - Drawings
  - Certification type



# Apply for Certification, continued

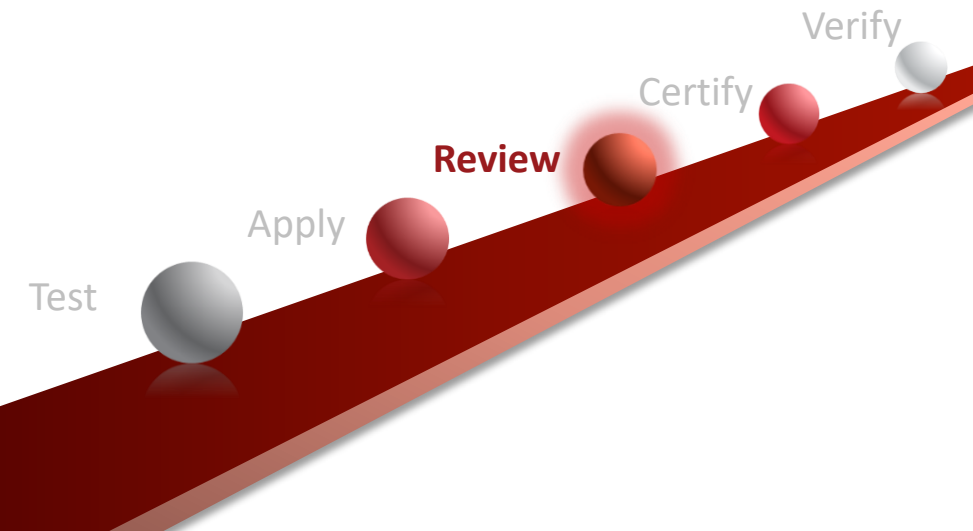
- Certification type
  - Air
  - Sound
    - Inlet, outlet sound
    - Octave band ratings
    - LwA rating
    - Sone rating





# Review the Catalog

- Staff reviews the catalog/selection program
  - Format – Statement requirements per AMCA Publications
    - Seal usage
  - Data – Compares performance data against test data

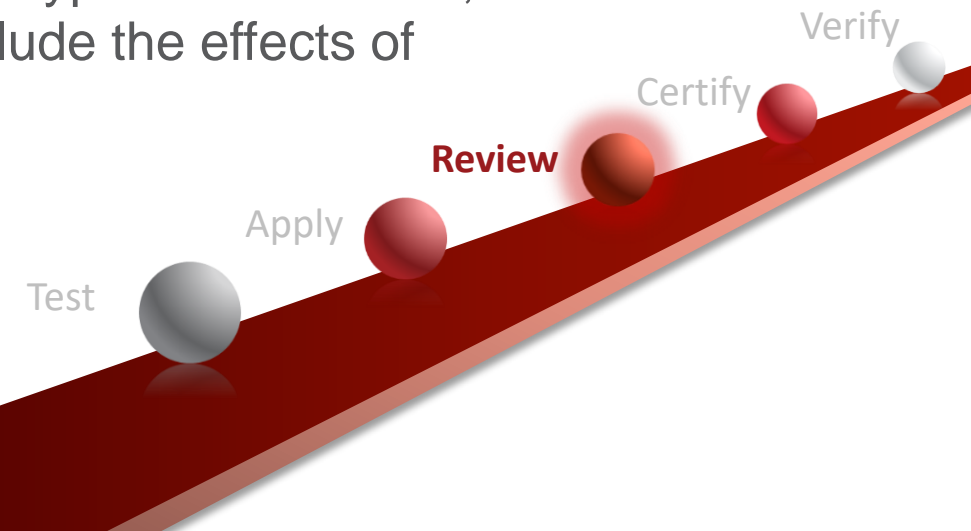


# Review the Catalog, continued



ABC Company certifies that Fan 123 shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Performance certified is for installation type B – Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances.



# Review the Catalog, continued

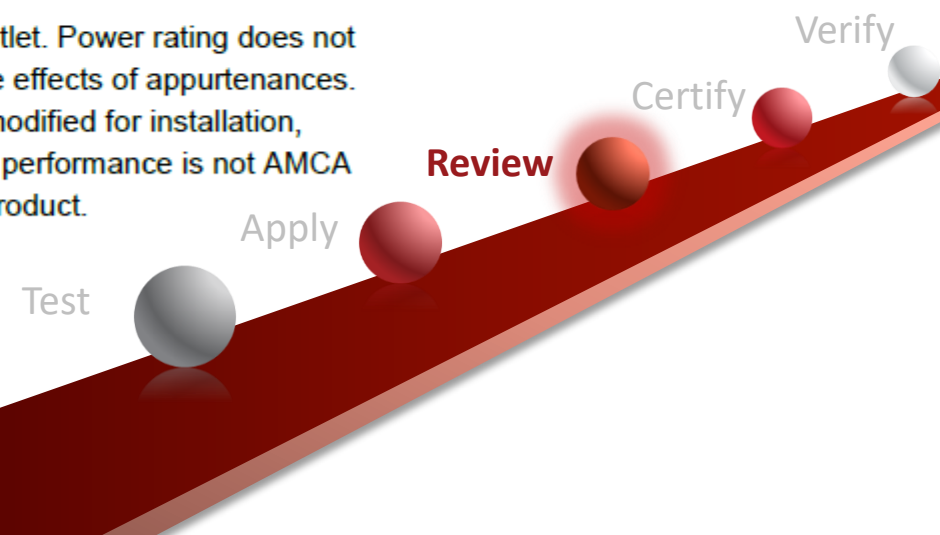
## Sound

	Octave Bands (hz)								LwA	dBA	Sones
	62.5	125	250	500	1000	2000	4000	8000			
Inlet	86	88	84	84	80	75	70	66	85	74	23



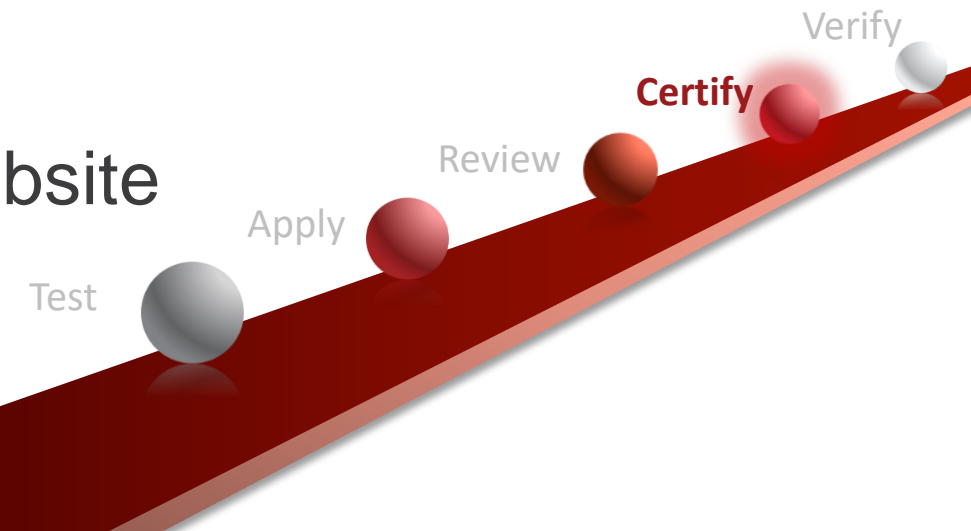
ABC Company certifies that the model shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA certified ratings seal applies to air performance and FEI ratings only.

Performance certified is for installation type B: Free inlet, ducted outlet. Power rating does not include transmission losses. Performance ratings do not include the effects of appurtenances. The AMCA licensed air and/or sound performance data has been modified for installation, appurtenances, etc. not included in the certified data. The modified performance is not AMCA licensed but is provided to aid in selection and applications of the product.



# Certify the Product

- Issue Appendix to License Agreement
  - Size
  - Catalog reference
  - Type of certification
  - Date of certification
- Add link to product directory
- Link the approved catalog to AMCA Website



# Certify the Product, continued

- AMCA's directory of certified products is updated instantly

The AMCA International Certified Ratings Program is a globally recognized third-party program that gives buyers, specifiers and users assurance that manufacturers' published data for air movement and control products are accurate.

Search by company name, product type, country, or license type

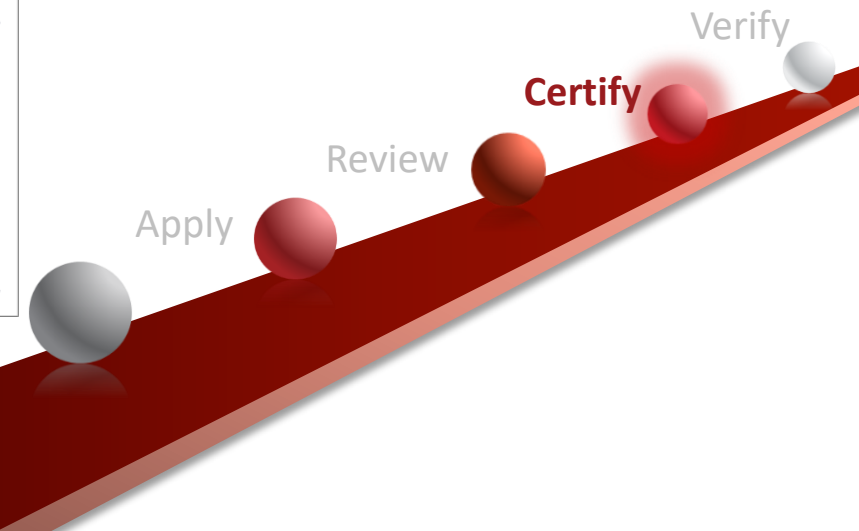


## Product Types:

- |                             |                              |                                |
|-----------------------------|------------------------------|--------------------------------|
| • Acoustic Duct Silencer    | • Centrifugal Fan            | • Mixed Flow Fan               |
| • Agricultural Fan          | • Damper                     | • Positive Pressure Ventilator |
| • Air Circulating Fan       | • Energy Recovery Ventilator | • Power Roof Ventilator        |
| • Air Curtains              | • Evaporative Cooler         | • Propeller Fan                |
| • Airflow Measuring Station | • Induced Flow               | • Single Room Air Handler      |
| • Axial Fan                 | • Large Diameter Ceiling Fan | • Jet Fans                     |
| • Ceiling Ventilator        | • Louver                     |                                |

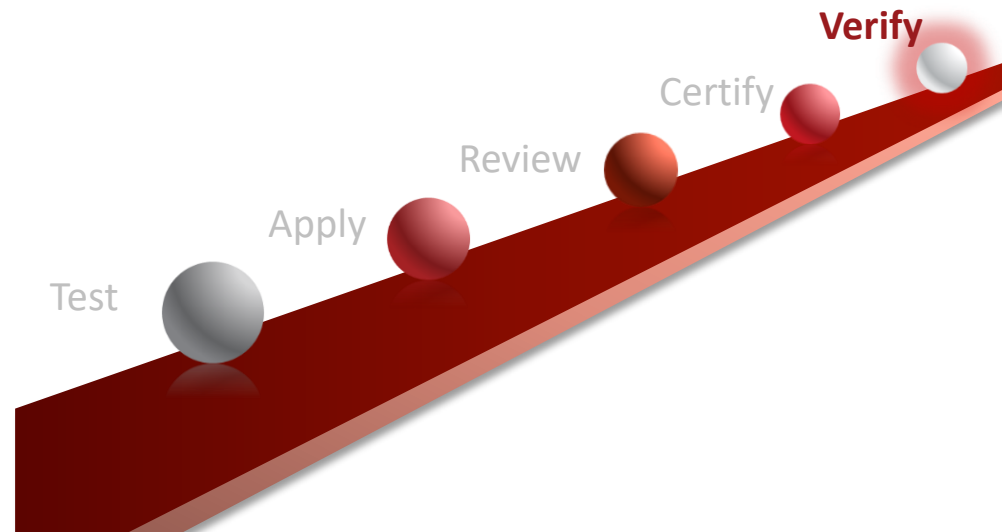
## License Types:

- |                     |                                |                    |
|---------------------|--------------------------------|--------------------|
| • Air Performance   | • Efficiency                   | • Circulating Fan  |
| • Sound             | • FEG                          | • Wind Driven Sand |
| • Air Leakage       | • Positive Pressure Ventilator | • FEI              |
| • Water Penetration | • Airflow Measurement Station  | • Energy Star      |
| • Wind Driven Rain  | • Acoustic Duct Silencer       | • Jet Fan          |
| • CFM per Watt      | • Induced Flow Fan             | • Axial Impeller   |



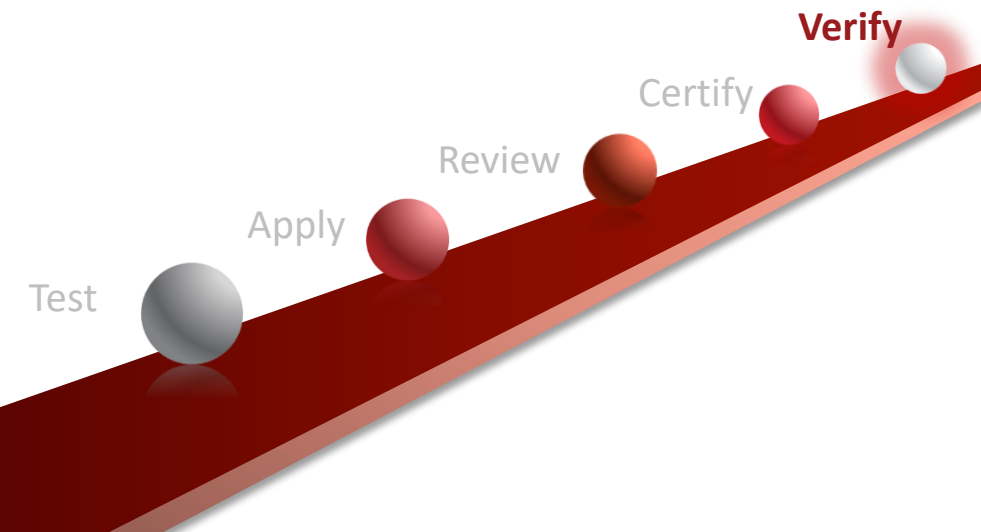
# Ongoing verification

- Done through check testing
- First check test
  - Pre-Production Sample
    - within 12 months of certification
  - Production Sample
    - within 36 months of certification



# Ongoing verification, continued

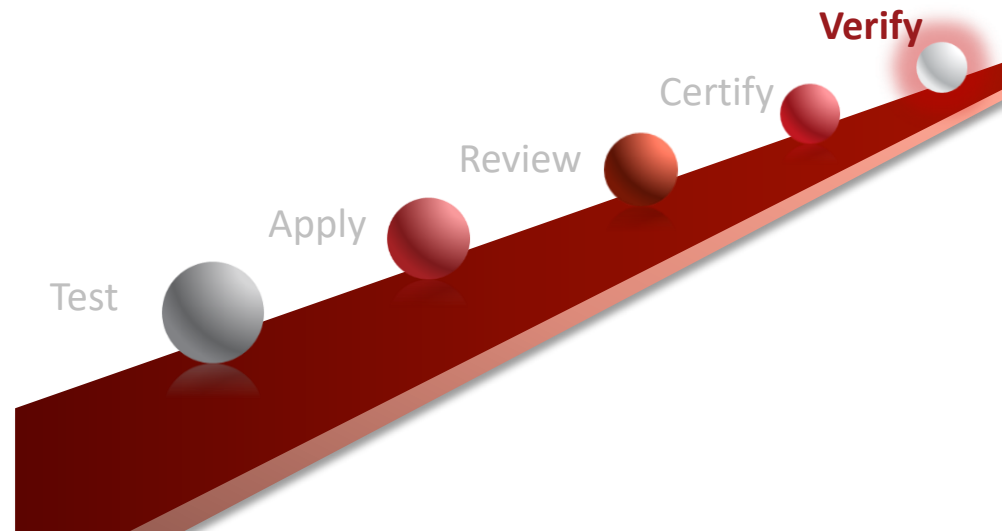
- If all check test results continue within tolerance:
  - Check test frequency decreases
    - Second check test within 36 months
    - Third check test within 36 months after second
    - Fourth check test within 60 months after third
    - Fifth check test within 84 months after fourth





# Ongoing verification, continued

- If a check test result is NOT within tolerance:
- Options for licensee are:
  - Inspect the product
  - Re-catalog within 6 months
  - Withdraw
- Retest within 12 months
- Check test clock resets



# Suspension

- Failure to ship unit for check test
- Failure to correct product after a failed check test
- Failure to submit mandatory re-catalog

# Typical Violations

- Seal applied to non-certified products
- Certification expanded without informing AMCA
  - Non-certified size added
  - Non-certified performance added
    - Fans: Air certification to air and sound
    - Louvers: Pressure drop to pressure drop and water
- Member logo adjacent to performance ratings
- Published, non-approved catalog

# Violations Reported on AMCA Website

- Non-Certified Products
  - Products advertised as certified, but are not
- Program Violation Notices
  - Violations that have not yet resulted in withdrawal
  - Enforced License Withdrawals
  - Products that had certification withdrawn

# Better Enforcement

- Product selection software
- CRP violations
  - Test vs. Certify
  - Unapproved catalog at company website
  - Misuse of CRP seals
  - False claim of AMCA certification
  - AMCA corporate logo, AMCA membership logo

# AMCA Helps Specifiers to be Confident

- CRP confirmation available on AMCA website ([www.amca.org/certify](http://www.amca.org/certify))
  - Verify AMCA seal in submittal
  - Verify model number
  - Verify approved catalogs/selection software
  - Verify CRP seals affixed to products (optional)



# Thank you for your time!

*To receive PDH credit for today's program, you **must** complete the online evaluation, which will be sent via email following this webinar.*

*If you viewed the webinar as a group and only one person registered for the webinar link, please email Lisa Cherney ([lcherney@amca.org](mailto:lcherney@amca.org)) for a group sign-in sheet today. Completed sheets must be returned to Lisa by tomorrow, November 12.*

*PDH credits and participation certificates will be issued electronically within 30 days, once all attendance records are checked and online evaluations are received.*

*Attendees will receive an email at the address provided on your registration, listing the credit hours awarded and a link to a printable certificate of completion.*





**Questions?**