Guideline Specifications for AMCA-Certified Products

An AMCA International White Paper

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This white paper is available to download at no cost at www.amca.org/whitepapers
ABSTRACT
Most air-system specifications are written ineffectively with regard to certification, leaving the door open for non-certified products to be installed when certified products were intended. Based on feedback from engineers, AMCA simplified its guideline specifications.

Through its globally recognized Certified Ratings Program (CRP), Air Movement and Control Association (AMCA) International Inc. tests and rates 24 types of air-system components, from dampers to duct silencers, axial fans to air curtains. To specifiers of these products, AMCA certification is assurance a product line conforms to AMCA standards and requirements and that published performance data are accurate.

Through its free specification-review service, however, AMCA is finding that most air-system specifications are written ineffectively with regard to certification, leaving the door open for non-certified products to be installed when certified products were intended. Based on feedback from specifying engineers, AMCA simplified its guideline specifications, reducing paragraph-long statements to single sentences. Engineers are encouraged to incorporate this new and more efficient language into their specifications.
FANS

Agricultural Fans

- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for CFM/Watt and Air Performance.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for FEI (Fan Energy Index).”

Air-Circulating Fans

- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for FEI (Fan Energy Index).”

Air-Curtain Units

- “All air-curtain units shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance.”
- “All air-curtain units shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance.”


- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance and Efficiency.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air and Sound Performance and Efficiency.”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance and FEG (Fan Efficiency Grade).”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance and FEG (Fan Efficiency Grade).”
- “All fans shall be certified to bear the AMCA Certified Ratings Program seal for FEI (Fan Energy Index).”

Axial Impellers

- “All axial impellers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance.”
- “All axial impellers shall be certified to bear the AMCA Certified Ratings Program seal for FEI (Fan Energy Index).”

ABOUT THE AMCA SEAL

The hallmark of the AMCA Certified Ratings Program (CRP) is the AMCA seal, which can be affixed to equipment and used in catalogs and sizing/selection software. Manufacturers whose products are certified to bear the AMCA seal are not required to display it. Thus, it is best to specify that products “shall be certified to bear” an AMCA seal.

CRP seals are applied according to very specific rules. For example, a seal can be associated only with a product currently certified to bear it and cannot be displayed on the cover of a catalog containing both certified and non-certified products. This and other rules are contained within the CRP publications listed in the references section of this white paper.
Jet Tunnel Fans
- "All fans shall be certified to bear the AMCA Certified Ratings Program seal for Jet Fan Air Performance."
- "All fans shall be certified to bear the AMCA Certified Ratings Program seal for Jet Fan Air and Sound Performance."
- "All fans shall be certified to bear the AMCA Certified Ratings Program seal for FEI (Fan Energy Index)."

Large-Diameter Ceiling Fans
- "All fans shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."

Positive-Pressure Ventilators
- "All positive-pressure ventilators shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."

DAMPERS
- "All dampers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."
- "All dampers shall be certified to bear the AMCA Certified Ratings Program seal for Air Leakage and Air Performance."
- "All dampers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance and Efficiency."
- "All dampers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance, Efficiency, and Air Leakage."

LOUVERS
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Water Penetration and Air Performance."
- "All sand louvers shall be tested in accordance with ANSI/AMCA Standard 500-L and be certified to bear the AMCA Certified Ratings Program seal for Air Performance and Wind Driven Sand in accordance with AMCA Publication 511."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Air Leakage, Wind Driven Rain, and Air Leakage."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Water Penetration, Air Performance, and Wind Driven Rain."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Water Penetration, Sound, and Air Performance."
- "All louvers shall be certified to bear the AMCA Certified Ratings Program seal for Air Leakage."

AIRFLOW-MEASUREMENT STATIONS
- "All airflow-measurement stations shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."

PACKAGED EQUIPMENT
Energy-Recovery Ventilators
- "All energy-recovery ventilators shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."

Evaporative Coolers
- "All evaporative coolers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."
- "All evaporative coolers shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance."

Single-Room Air Handlers
- "All single-room air handlers shall be certified to bear the AMCA Certified Ratings Program seal for Air Performance."
- "All single-room air handlers shall be certified to bear the AMCA Certified Ratings Program seal for Sound and Air Performance."

DUCTS
Spiral Ducts
- "All spiral ducts shall be certified to bear the AMCA Certified Ratings Program seal for Air Leakage."

Prefabricated Duct Silencers
- "All acoustical duct silencers shall be certified to bear the AMCA

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Certified Ratings Program seal for Sound and Air Performance.

**REFERENCED PUBLICATIONS AND STANDARDS**

The following publications can be downloaded free of charge from the AMCA International store at [www.amca.org/store](http://www.amca.org/store):

- AMCA Publication 11, *Certified Ratings Program Operating Manual*.

The following standards are available for purchase from the AMCA International store at [www.amca.org/store](http://www.amca.org/store):


*Damper-leakage test.*
AN INTRODUCTION TO THE AMCA CERTIFIED RATINGS PROGRAM—Describes how the AMCA Certified Ratings Program (CRP) works, explains how to properly specify AMCA-certified products for air systems, and maps seals/labels, publications, and test standards to the 24 products covered by the CRP.

HOW TO ENSURE AMCA-CERTIFIED PRODUCTS GET INSTALLED—This white paper describes what building-industry professionals need to know to specify an AMCA-certified product and ensure the product gets installed. Included are a handy step-by-step checklist and several practical examples.

AMCA ONLINE RESOURCES

AMCA International headquarters and laboratory
www.amca.org

Asia AMCA offices and testing laboratory
www.asiaamca.org

AMCA white papers
www.amca.org/whitepapers

CRP-related publications (no cost) and standards (cost)
www.amca.org/store

Searchable database of AMCA-certified products
www.amca.org/certified-listed/cpsearch.php