



Guideline Specifications for Selected 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

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In January 2015, AMCA published “How to Specify AMCA-Certified Products,” a white paper describing how AMCA certification is attained and how to cite AMCA publications and standards to ensure AMCA-certified products are installed. It also generally describes how to specify AMCA-certified products and provides a few examples of fan, damper, and louver specifications.

This white paper provides more examples of specifications for AMCA-certified products. It also provides a list of referenced AMCA standards and publications and a list of online resources.

The guideline specifications are categorized by air-movement and air-control equipment. Engineers are free to copy and paste these provisions into their office-library and project specifications.



A fan being prepared for testing at the AMCA International headquarters laboratory.

AIR-MOVEMENT PRODUCTS

- “Fans shall comply with AMCA Publication 11 to bear the AMCA Certified Ratings Program seal for air performance and sound performance, according to AMCA publications 11, 211, and 311.”

“Fans must comply with AMCA Publication 211 and be certified to bear the AMCA Certified Ratings Program seal. The fans shall be tested for air performance—flow rate, fan pressure, power, air density, speed of rotation, and fan efficiency—according to ANSI/AMCA Standard 210/ASHRAE 51. Fan sound ratings shall be certified in compliance with AMCA Publication 311 and comply with ANSI/AMCA Standard 301. The fans shall be tested according to ANSI/AMCA Standard 300.”

- “Induced-flow fans must comply with AMCA Publication 211 and be certified to bear the AMCA Certified Ratings Program seal. The fans shall be tested for air performance in accordance with ANSI/AMCA standards 260 and 210. Fan sound ratings shall be certified in compliance with AMCA Publication 311 and comply with ANSI/AMCA Standard 301. The fans shall be tested according to ANSI/AMCA Standard 300.”

- “Positive-pressure ventilators must comply with AMCA Publication 211 and be certified to bear the AMCA Certified Ratings Program seal. They shall be tested for air performance in accordance with ANSI/AMCA Standard 240.”
- “Air curtains must comply with AMCA Publication 211 and be certified to bear the AMCA Certified Ratings Program seal. The air curtains shall be tested for aerodynamic performance in accordance with ANSI/AMCA Standard 220. Fan sound ratings shall be certified in compliance with AMCA Publication 311 and comply with ANSI/AMCA Standard 301. The air curtains shall be tested according to ANSI/AMCA Standard 300.”
- “Large-diameter ceiling fans must comply with AMCA Publication 211 and be certified to bear the AMCA Certified Ratings Program seal. They shall be tested for air performance in accordance with ANSI/AMCA Standard 230.”

AIR-CONTROL PRODUCTS

- “Dampers shall be certified to bear the AMCA Certified Ratings Program seal for air performance, air leakage, and efficiency (as applicable) in accordance with AMCA Publication 511. The dampers shall be tested according to ANSI/AMCA Standard 500-D.”
- “Louvers shall be certified to bear the AMCA Certified Ratings Program seal for air performance, wind-driven rain, wind-driven sand, and water penetration (as applicable) in accordance with AMCA Publication 511. The louvers shall be tested according to ANSI/AMCA Standard 500-L.”
- “The sand louver shall be tested in accordance with AMCA Standard 500-L and certified to bear the AMCA Certified Ratings Program seal for air performance and wind-driven sand in accordance with AMCA Publication 511.”

ADDITIONAL RECOMMENDED SPECIFICATIONS

- “Fans shall be balanced in accordance with ANSI/AMCA Standard 204.”
- “Classification for spark-resistant construction shall conform to ANSI/AMCA Standard 99-0401.”

REFERENCED PUBLICATIONS AND STANDARDS

The following publications can be downloaded free of charge from AMCA International’s website, under the “Resources” tab (or by going to www.amca.org/store):

- **AMCA PUBLICATION 11**
CERTIFIED RATINGS PROGRAM OPERATING MANUAL
This publication sets the foundation for how the AMCA Certified Ratings Program works across all certifiable products and defines requirements for licensing the AMCA seal.

ABOUT THE AMCA SEAL

The hallmark of the AMCA Certified Ratings Program (CRP) is the 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, in project submittals and specifications, it is best to specify products “must be certified to bear the 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 uncertified products. This and other rules are contained within the CRP publications listed in the references section of this white paper.



- **AMCA PUBLICATION 211**
CERTIFIED RATINGS PROGRAM—PRODUCT RATING MANUAL FOR FAN AIR PERFORMANCE
This publication sets forth requirements and processes for fan air performance and lists approved test standards for rating.
- **AMCA PUBLICATION 311**
CERTIFIED RATINGS PROGRAM PRODUCT RATING MANUAL FOR FAN SOUND PERFORMANCE
This publication governs fan sound ratings and certification.
- **AMCA PUBLICATION 511**
CERTIFIED RATINGS PROGRAM—PRODUCT RATING MANUAL FOR AIR CONTROL DEVICES
This publication covers damper and louver certification.
- **AMCA PUBLICATION 611**
CERTIFIED RATINGS PROGRAM – PRODUCT RATING MANUAL FOR AIRFLOW MEASUREMENT STATIONS
This publication covers airflow-measurement-station certification.
- **AMCA PUBLICATION 1011**
CERTIFIED RATINGS PROGRAM – PRODUCT RATING MANUAL FOR ACOUSTICAL DUCT SILENCERS
This publication covers acoustical-duct-silencer certification.

The following standards can be purchased from AMCA International's website, under the "Resources" tab (or by going to www.amca.org/store):

- **ANSI/AMCA STANDARD 99**
STANDARDS HANDBOOK
- **ANSI/AMCA STANDARD 204**
BALANCE QUALITY AND VIBRATION LEVELS FOR FANS
- **ANSI/AMCA STANDARD 205**
ENERGY EFFICIENCY CLASSIFICATION FOR FANS
- **ANSI/AMCA STANDARD 207**
FAN SYSTEM EFFICIENCY AND FAN SYSTEM INPUT POWER CALCULATION
- **ANSI/AMCA STANDARD 210/ASHRAE 51**
LABORATORY METHODS OF TESTING FANS FOR CERTIFIED AERODYNAMIC PERFORMANCE RATING
- **ANSI/AMCA STANDARD 220**
LABORATORY METHODS OF TESTING AIR CURTAIN UNITS FOR AERODYNAMIC PERFORMANCE RATING
- **ANSI/AMCA STANDARD 230**
LABORATORY METHODS OF TESTING AIR CIRCULATING FANS FOR RATING AND CERTIFICATION
- **ANSI/AMCA STANDARD 240**
LABORATORY METHODS OF TESTING POSITIVE PRESSURE VENTILATORS FOR AERODYNAMIC PERFORMANCE RATING
- **ANSI/AMCA STANDARD 260**
LABORATORY METHODS OF TESTING INDUCED FLOW FANS FOR RATING
- **ANSI/AMCA STANDARD 250**
LABORATORY METHODS OF TESTING JET TUNNEL FANS FOR PERFORMANCE
- **ANSI/AMCA STANDARD 300**
REVERBERANT ROOM METHOD FOR SOUND TESTING OF FANS
- **ANSI/AMCA STANDARD 301**
METHODS FOR CALCULATING FAN SOUND RATINGS FROM LABORATORY TEST DATA
- **ANSI/AMCA STANDARD 500-D**
LABORATORY METHODS OF TESTING DAMPERS FOR RATING
- **ANSI/AMCA STANDARD 500-L**
LABORATORY METHODS OF TESTING LOUVERS FOR RATING
- **ANSI/AMCA STANDARD 550**
TEST METHOD FOR HIGH VELOCITY WIND DRIVEN RAIN RESISTANT LOUVERS
- **ANSI/AMCA STANDARD 610**
LABORATORY METHODS OF TESTING AIRFLOW MEASUREMENT STATIONS FOR PERFORMANCE RATING



Fan air-performance (above) and damper leakage testing (below) at AMCA International headquarters laboratory.





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OTHER CRP WHITE PAPERS

Available at www.amca.org/whitepapers:



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 21 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



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