ANSI/RESNET/ACCA/ICC 310—2025
Standard for Grading the Installation of HVAC Systems

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RESNET obtains consensus through participation of its national members, associated societies and public review. The following individuals are recognized for their contributions to the initial development of the standard: Jim Bergmann, Tommy Blair, Michael Brown, Greg Cobb, Wes Davis, Brett Dillon, Philip Fairey, Dean Gamble, Dan Granback, James Jackson, Rob Minnick, Brian Mount, Chris Reynolds, Dave Roberts, Marte Serrano, Dennis Strohr, Iain Walker, Dan Wildenhaus and Jon Winkler.

This is the second edition of the standard, which is under continuous maintenance in accordance with Section 10.9 of the *RESNET Standard Development Policy and Procedures Manual*. Continuous maintenance proposals should be submitted to the Manager of Standards via the online form on the RESNET website. The procedures manual and online forms for submitting continuous maintenance proposals and requests for interpretation can be accessed from the website at https://www.resnet.us/about/standards/resnet-ansi/ on the page titled "RESNET®-ANSI AMERICAN NATIONAL STANDARDS."

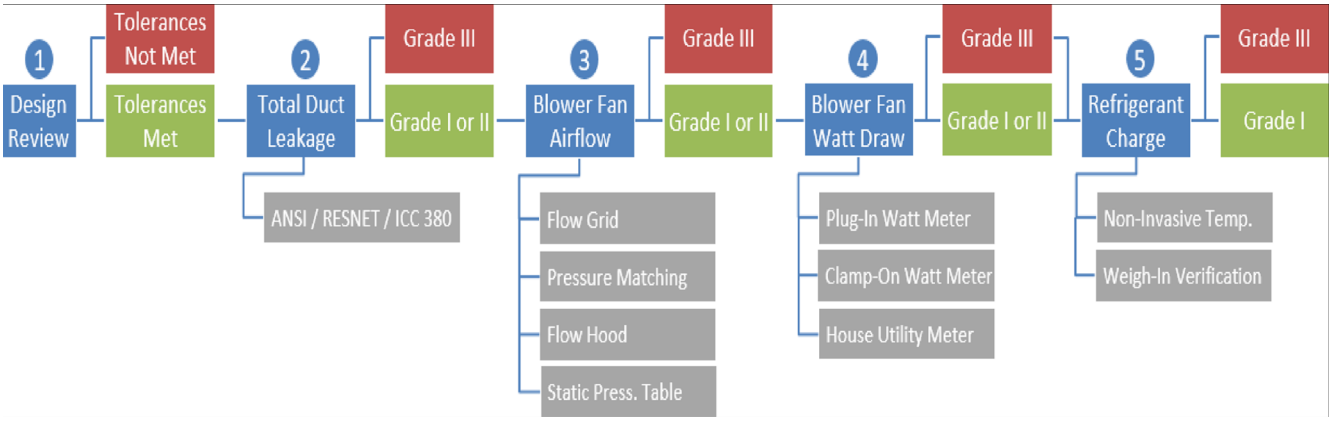
The Manager of Standards should be contacted for:

1. Interpretation of the contents of this standard.
2. Participation in the next review of this standard.
3. Offering constructive criticism for improving this standard.
4. Permission to reprint portions of this standard.

FOREWORD (INFORMATIVE)

This standard provides a methodology for evaluating the installation quality of *unitary* HVAC systems. It is comprised of five tasks: a design review, a total duct leakage test, a *blower fan* volumetric airflow test, a *blower fan* watt draw test and a noninvasive evaluation of refrigerant charge. The five tasks are designed to be completed in sequence. With the completion of each task, the results are evaluated for compliance with specified thresholds. For Task 1, these thresholds are design tolerances. For Tasks 2 through 5, the thresholds are installation quality grades. Furthermore, for Tasks 1 through 3, specified thresholds must be satisfied or the subsequent tasks cannot be completed. A visual representation of the workflow and the diagnostic test methods is shown in Figure 1.

FIGURE 1—ILLUSTRATION OF WORKFLOW AND DIAGNOSTIC TEST METHODS



In this standard, the terms *townhouse*, *dwelling unit* and *sleeping unit* are interchangeable with the term *dwelling*, except where specifically noted.

This standard contains both normative requirements and informative supporting material. The normative requirements must be complied with to conform to the standard. Informative materials only provide supportive content and are marked as such.

CONTENTS

CHAPTER 1 PURPOSE 7
101 General 7

CHAPTER 2 SCOPE 9
201 General 9

CHAPTER 3 DEFINITIONS 11
301 Defined Terms and Acronyms 11

CHAPTER 4 TASK 1: EVALUATION OF THE DESIGN 17
401 Overview 17
402 Required Design Information 17
403 Evaluation of Design Information 19

CHAPTER 5 TASK 2: EVALUATION OF THE TOTAL DUCT LEAKAGE 23
501 Overview 23

CHAPTER 6 TASK 3: EVALUATION OF THE BLOWER FAN VOLUMETRIC AIRFLOW 25
601 Overview 25

CHAPTER 7 TASK 4: EVALUATION OF THE BLOWER FAN WATT DRAW 33
701 Overview 33

CHAPTER 8 TASK 5: EVALUATION OF THE REFRIGERANT CHARGE 37
801 Overview 37

CHAPTER 9 REFERENCED STANDARDS 45

APPENDIX A (NORMATIVE) DESIGN TEMPERATURE LIMITS BY STATE AND COUNTY, AND US TERRITORY 47

APPENDIX B (NORMATIVE) TARGET SUPERHEAT 189

APPENDIX C (NORMATIVE) WEIGH-IN METHOD REFRIGERANT CHARGE VERIFICATION WEIGHT 193