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# **Smacna Hvac Air Duct Leakage Test Manual**

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Leakage class can be calculated using Equation 3 but needs to be specified if duct air leakage tests are required. Figure 5-1L

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from the 2012 SMACNA HVAC Air Duct Leakage Test Manual shows the allowable leakage as a function of Duct Leakage Classification and static pressure in the duct.

### **HVAC Duct Air Leakage 9-12-19 - SMACNA**

HVAC Air Duct Leakage  
This article discusses the history of duct air leak testing and describes proper

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techniques and practical application when leak testing is performed in accordance with the Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards. Download the article here: HVAC Air Duct Leakage Article

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Leakage. In a recent article which was published in RSES Journal, SMACNA's Senior Project Manager Pat Brooks, PE, discusses the history of duct air leak testing and describes proper techniques and practical applications when leak testing is performed in accordance with SMACNA standards. The "air tightness" of HVAC duct begins with

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the proper specification written by a design engineer.

### **HVAC Duct Air Leakage - SMACNA**

SMACNA has published a procedure for leakage testing of so-called medium and high pressure ductwork since January 1965. It appeared in Chapter 10 of the high velocity (later high pressure) construction standards and in Chapter 8 of the



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Balancing and  
Adjustment of Air  
Distribution Systems  
Manual of 1967 vintage.

**HVAC AIR DUCT  
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MANUAL**

2 nd edition, 2012, 122  
pages: This American  
National Standard,  
ANSI/SMACNA  
016-2012, covers  
revised leakage criteria  
and builds on the  
proven methods for  
testing ductwork for air

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leaks from the first edition. Contains updates to the expected leakage rates for ductwork constructed to the SMACNA HVAC Duct Construction Standards—Metal & Flexible, duct leakage test procedures, recommendations on use of leakage testing, types of test apparatus and test setup and sample leakage analysis.

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vintage.

**HVAC AIR DUCT  
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updates to the expected leakage rates for ductwork constructed to the SMACNA HVAC Duct Construction Standards—Metal & Flexible, duct leakage test procedures, recommendations on use of leakage testing, types of test apparatus and test setup and sample leakage analysis. Includes a new educational chapter...

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Ductwork that is designed to operate at static pressures in excess of 3 inches Water Column (0.75 kPa) shall be leak-tested according to the SMACNA HVAC Air Duct Leakage Test Manual. Representative sections totaling no less than 25 percent of the total installed duct

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area for the designated pressure class shall be tested.

### **Technical Resources Bulletin - smacna.org**

quote from quote from hvac air duct leakage test hvac air duct leakage test manual (smacna): "where no specific duct pressure class designations are provided by class designations are provided by the

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designer the 1" water gage pressure class is the basis of compliance... © 2011, tsi incorporated

### **Duct Leakage Testing - NEBB**

DUCT LEAKAGE CLASS

\*Consult the HVAC–Air Duct Leakage Test Manual and select appropriate allowable leakage. If field leak tests are required, appropriate test pressure and clear scope of



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testing must be specified.

### **HVAC DUCT CONSTRUCTION STANDARDS**

HVAC Air Duct Leakage

This article discusses the history of duct air leak testing and describes proper techniques and practical application when leak testing is performed in accordance with the Sheet Metal and Air

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Conditioning  
Contractors' National  
Association (SMACNA)  
standards.

### **Technical Resources** **- SMACNA**

Duct Leakage Testing  
Procedure. According  
to IECC (International  
Energy Conservation  
Code) when a new  
HVAC system has been  
installed in a home or  
business you will need  
a duct leakage test  
done. Keep in mind this

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is obligatory to pass inspection on any home or commercial building. Only after a duck leakage test is performed and passed will the owner receive a Certificate of Occupancy.

## **DUCT LEAKAGE TESTING - NJ Air Quality | NJ's Air Duct ...**

Located in headquarters outside Washington, D.C., the

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Sheet Metal and Air Conditioning Contractors' National Association (SMACNA), an international association of union contractors, has 1,834 members in 103 chapters throughout the United States, Canada, Australia and Brazil.

**smacna.org - Sheet  
Metal and Air  
Conditioning  
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hvac air duct leakage  
task force; notice to  
users of this  
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the design professional  
; 1.1 introduction; 1.2  
seal class requirements  
and predicted air  
leakage rates; 1.3  
information on  
specifications; chapter  
2 overview ; 2.1  
general application ...

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- HVAC Air System Leakage is the combination of duct, equipment and accessory leakage.

**HVAC System Air  
Leakage -  
utahashrae.org**

SMACNA 016-2012  
HVAC Air Duct Leakage  
Test Manual. This  
American National  
Standard,  
ANSI/SMACNA  
016-2012, covers

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revised leakage criteria and builds on the proven methods for testing ductwork for air leaks from the first edition. Contains updates to the expected leakage rates for ductwork constructed to the SMACNA HVAC Duct Construction ...

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SMACNAs HVAC Air Duct Leakage Test Manual provides leakage rates based on testing ducts constructed to the SMACNA HVAC-DCS Comments/Discussion Does the SMACNA test work on equipment or casings? - SMACNA has not tested those components to see if the method of the predicted leakage rates apply



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### **HVAC Air Duct Leakage | Duct (Flow) | Hvac**

McGill AirFlow often gets specifications stating that the leakage class for rectangular and round ductwork will be in accordance with the SMACNA Table 4-1 for a 3-inch water gauge (wg) supply duct system, thus allowing the rectangular duct leakage class to be 12 and the round and flat

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oval duct leakage class  
to be 6.

**What is an Allowable  
Duct System  
Leakage Specifi  
cation?**

Duct - -1 - - - A 24 - -  
1.0 2 Notes: 1. Test in  
accordance with  
Specification Section  
23 05 93, HVAC  
Testing, Adjusting, and  
Balancing and the  
procedures in SMACNA  
HVAC Air Duct Leakage  
Test Manual. 2. No Test

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