

Duct Design

Table 6 Duct Leakage Classification^{a,b}

Duct Type	Sealed ^{c,d}		Unsealed ^e	
	Predicted Leakage Class C ₂	Leakage Rate, L/s·m ²	Predicted Leakage Class C ₂	Leakage Rate, L/s·m ²
Metal (flexible excluded)				
Round and flat oval	4	0.14	42	1.5
			(8 to 99)	(0.3 to 3.6)
Rectangular	17	0.62	68	2.5
			(17 to 155)	(0.6 to 5.6)
Flexible				
Metal, aluminum	11	0.40	42	1.5
			(17 to 76)	(0.6 to 2.8)
Nonmetal	17	0.62	30	1.5
			(6 to 76)	(0.2 to 2.8)
Fibrous glass				
Round	4	0.14	N/A	N/A
Rectangular	3	0.29	N/A	N/A

^aLeakage classes from air systems tested on ducts constructed by AMCA/SMACNA (1997a), ASHRAE/SMACNA/TIMIA (1990a), and Swan and Orlitz (1990a).

^b"Sealed" leakage classes assume that, for metal ducts, all transverse joints, seams, and openings in duct wall are sealed.

^cLeakage classes anticipate about 0.02 joints per meter of duct. For systems with a high joints-to-joint length ratio, greater leakage occurs in both sealed and unsealed conditions.

Table 7 Leakage as Percentage of Airflow^{a,b}

Leakage Class	System L/s per m ²	Static Pressure, Pa						
		Duct Surface ^c	125	250	500	750	1000	1500
0.0	0.0	0.5	2.4	3.8	4.9	5.9	7.7	
	12.7	0.2	1.9	3.0	3.9	4.7	6.2	
15	0.0	0.6	2.5	3.3	3.9	5.1		
	20	0.3	1.2	1.9	2.5	3.0	3.8	
	25	0.1	0.6	1.5	2.0	2.4	3.1	
3.4	0.0	0.7	1.2	1.9	2.5	3.0	3.8	
	12.7	0.1	0.6	1.5	2.0	2.4	3.1	
15	0.1	0.6	1.3	1.8	2.0	2.6		
	20	0.3	0.6	0.9	1.2	1.5	1.9	
	25	0.1	0.3	0.5	0.8	1.2	1.5	
17	0.0	0.6	0.9	1.2	1.5	1.9		
	12.7	0.1	0.3	0.5	0.8	1.2	1.5	
15	0.0	0.6	0.9	1.2	1.5	1.9		
	20	0.1	0.3	0.4	0.6	0.8	1.0	
	25	0.05	0.2	0.3	0.4	0.5	0.7	
11	0.0	0.9	1.3	1.7	2.1	2.4	3.0	
	12.7	0.1	0.4	0.7	0.9	1.2	1.5	
15	0.1	0.6	1.0	1.3	1.6	1.9		
	20	0.1	0.3	0.4	0.5	0.7	0.8	
	25	0.05	0.2	0.3	0.4	0.5	0.6	
8	0.0	1.0	1.3	2.0	3.1	3.7	4.5	
	12.7	0.1	0.3	0.5	0.8	1.2	1.5	
15	0.1	0.6	1.0	1.6	2.0	2.5	3.2	
	20	0.1	0.3	0.5	0.8	1.2	1.5	
	25	0.05	0.2	0.3	0.4	0.5	0.6	

^aAdapted with permission from AHRAE Air Duct Leakage Test Manual (SMACNA 1998), Appendix A.

^bPercentage applies to airflow entering a section of duct operating at an assumed pressure equal to average of upstream and downstream pressures.

^cValues in this column are typical of the volumetric flow rate divided by total system surface. Positions of systems may vary from these averages.

HVAC Duct Construction Standards (2005). Fibrous glass ducts and their closure systems are covered by UL Standards 181 and 181A. For fibrous glass duct construction standards, consult SMACNA (2002) and SMACNA (2003). Flexible duct performance and installation

Table 8 Typical Design Velocities for HVAC Components

Duct Element	Face Velocity, m/s
Louvers ^a	
Intake	
3,000 L/s and greater	2
Less than 3,000 L/s	See Figure 14
Exhaust	
2,400 L/s and greater	2.5
Less than 2,400 L/s	See Figure 14
Filters ^b	
Panel filters	
Viscous impingement	1 to 4
Dry-type, extended-surface	
Flat (low efficiency)	Direct velocity
Pleated media (intermediate efficiency)	Up to 3.0
HEPA	1.5
Membrane media filters	
Moving-curtain viscous impingement	2.5
Moving-curtain dry media	1
Electrostatic air cleaners	
Bouncing type	0.8 to 1.0
Heating Coils ^c	
Steam and hot water	
2.5 to 3	
1 min., 8 max.	
Electric	
Open wire	Refer to mfg. data
Planned tubular	Refer to mfg. data
Dehumidifying Coils ^d	2 to 3
Air Washers ^e	
Spray type	Refer to mfg. data
Cell type	Refer to mfg. data
High-velocity spray type	6 to 9

^aBased on assumption presented in test.

^bAdapted from Ch. 26, 2000 ASHRAE HVAC Systems and Equipment.

^cAdapted from Ch. 26, 2000 ASHRAE HVAC Systems and Equipment.

^dAdapted from Ch. 22, 2000 ASHRAE HVAC Systems and Equipment.

^eAdapted from Ch. 26, 2000 ASHRAE HVAC Systems and Equipment.

standards are covered by UL Standards 181 and 181A and AHRAE (2005). Soldered or welded duct construction is necessary where sealants are not suitable. Sealants used on exterior ducts must be resistant to weather, temperature cycles, sunlight, and ozone.

Shaft and compartment pressure changes affect duct leakage and are important to health and safety in the design and operation of contaminant and smoke control systems. Shafts should not be used for supply, return, and/or exhaust air without accounting for their leakage rates. Airflow around buildings, building component leakage, and the distribution of inside and outside pressures over the height of a building, including shafts, are discussed in Chapters 16 and 24.

System Component Design Velocities

Table 8 summarizes face velocities for HVAC components in built-up systems. In most cases, the values are abstracted from pertinent chapters in the 2000 ASHRAE Handbook—HVAC Systems and Equipment; final selection of components should be based on data in these chapters or, preferably, from manufacturers.

Use Figure 14 for preliminary sizing of air intake and exhaust louvers. For air quantities greater than 3,000 L/s per louver, the air intake gross louver openings are based on 2 m/s; for exhaust louvers, 2.5 m/s is used for air quantities of 2,400 L/s per louver and greater. For smaller air quantities, refer to Figure 14. These criteria are presented on a per-louver basis (i.e., each louver in a bank of louvers) to include each louver frame. Representative production-louver were used in establishing Figure 14, and all data used were based on AMCA Standard 590-L tests. For louvers larger than

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ASHRAE Handbook ,2000 Air Conditioning and Ventilation: Fundamental to Practical Nopparat Katkhaw,2025-10-12

This book was written based on over 20 years of real world engineering and teaching experience It is carefully compiled from ASHRAE Handbooks SMACNA Standards and CARRIER reference documents along with other professional resources in the HVAC field The content is organized into two main units each supported with numerous comprehensive examples covering both SI and I P units to suit international practice Designed for students engineers and anyone interested in HVAC system design this book has been proven by more than 5 000 copies sold in print reflecting its practicality and reliability in both classroom and field applications CHAPTER 1 Psychrometrics and Thermal Comfort *ASHRAE Handbook & Product Directory* American Society of Heating, Refrigerating and Air-Conditioning Engineers,1979

NEHRP Commentary on the Guidelines for the Seismic Rehabilitation of Buildings Eugene Zeller,2000-06

This document from the National Earthquake Hazards Reduction Program NEHRP was prepared for the Building Seismic Safety Council BSSC with funding from the Federal Emergency Management Agency FEMA It provides commentary on the NEHRP Guidelines for the Seismic Rehabilitation of Buildings It contains systematic guidance enabling design professionals to formulate effective reliable rehabilitation approaches that will limit the expected earthquake damage to a specified range for a specified level of ground shaking This kind of guidance applicable to all types of existing buildings in all parts of the country has never existed before

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Commission,2005 2010 California Energy Code International Code Council,2010-05-15 This document is the 6th of 12 parts of the official triennial compilation and publication of the adoptions amendments and repeal of administrative regulations to California Code of Regulations Title 24 also referred to as the California Building Standards Code This part is known as the California Energy Code Preface *Energy Technology XI* Richard F. Hill,1984 **Energy Technology;**

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