



ADDENDA

**ANSI/ASHRAE Addendum a to
ANSI/ASHRAE Standard 62.1-2025**

Ventilation and Acceptable Indoor Air Quality

Approved by ASHRAE and the American National Standards Institute on June 30, 2026.

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Cognizant TC: 4.3, Ventilation Requirements and Infiltration

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FOREWORD

Supermarkets have grown in size and evolved to offer more services, such as food preparation. With the expansion and additional activities, the potential for increased internally generated contaminants is likely. Several field research studies were investigated and the results compared to retail sales, an occupancy category known for having higher levels of indoor generated contaminants. The results indicated there was similar, if not greater, concentration of PM2.5, formaldehyde, acetone, and acetaldehyde present in supermarkets. Therefore, the breathing zone area outdoor air rate (R_a) is being increased.

Informative Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

Addendum a to Standard 62.1-2025

Modify Table 6-1 as shown.

Table 6-1 Minimum Ventilation Rates in Breathing Zone

Occupancy Category	People Outdoor Air Rate R_p		Area Outdoor Air Rate R_a		Default Values			Maximum CO ₂ above Ambient, $\Delta C_{6,1}$
	cfm/person	L/s·person	cfm/ft ²	L/s·m ²	Occupant Density		Air Class	
					#/1000 ft ² or #/100 m ²	OS (6.2.6.2)		
[...]								
Retail								
Sales (except as below)	7.5	3.8	0.12	0.6	15	2		900
Barbershop	7.5	3.8	0.06	0.3	7	2	✓	NA
Beauty and nail salons	20	10	0.12	0.6	7	2		NA
Coin-operated laundries	7.5	3.8	0.12	0.6	7	2		NA
Mall common areas	7.5	3.8	0.06	0.3	33	1	✓	2100
Pet shops (animal areas)	7.5	3.8	0.18	0.9	10	2		NA
Supermarket	7.5	3.8	0.06 <u>0.12</u>	0.3 <u>0.6</u>	8	1	✓	1500
[...]								

Modify Table K-1 as shown.

Table K-1 Rate Rationale (see Table 6-1)

Occupancy Category	Description/Rationale	People Outdoor Air Rate, cfm/person	People Outdoor Air Rate, L/s/person	Area Outdoor Air Rate, cfm/ft ²	Area Outdoor Air Rate, L/s·m ²	Air Class
[...]						
Retail						
Sales (except as below)	Occupant activity is moderate. There is considerable occupant movement, including carrying packages and being more vocally active. The presence of new merchandise creates higher levels of space-related <i>contaminants</i> . This is primarily the reason for the space being classified as Air Class 2.	7.5	3.8	0.12	0.6	2
Barber shop	Occupant activity is primarily sedentary, with moderate work being performed by the staff. Occupants are generally more vocal, resulting in higher metabolic rates. There are some significant space-related <i>contaminants</i> (shampoos, disinfecting agents, high levels of human hair). However, these are directly related to the occupancy rather than the floor area. This is the primary reason why this space is classified as Air Class 2.	7.5	3.8	0.06	0.3	2
Beauty and nail salons	Occupant activity is primarily sedentary, with moderate work being performed by the staff. Occupants are generally more vocal, resulting in higher metabolic rates. There are some significant space-related <i>contaminants</i> (shampoos, disinfecting agents, high levels of hair).	20	10	0.12	0.6	2
Coin-operated laundries	Occupant activity is primarily moderate-to-heavy walking and may include carrying packages. There are some significant space-related <i>contaminants</i> (detergents, disinfecting agents, soiled laundry). However, these are directly related to the occupancy rather than the floor area. This is the primary reason why this space is classified as Air Class 2.	7.5	3.8	0.12	0.6	2
Mall common areas	Occupant activity is primarily moderate to heavy walking and may include carrying packages. Occupants are generally more vocal, resulting in higher metabolic rates. There are no significant space-related <i>contaminants</i> .	7.5	3.8	0.06	0.3	1
Pet shops (animal areas)	Occupant activity is moderate (standing, talking, stooping, walking, and carrying packages). The <i>concentration</i> of animals of various species in containment creates higher levels of space-related <i>contaminants</i> . This <i>concentration</i> of animals, and the fact that they are kept in open containment, results in this space being classified as Air Class 2.	7.5	3.8	0.18	0.9	2
Supermarket	Occupant activity is primarily moderate to heavy walking and may include carrying packages. There are no significant space-related <i>contaminants</i> . <u>Emissions from food preparation, fruits and vegetables, and packaged products result in an increase of non-occupant-related contaminants.</u>	7.5	3.8	0.06 0.12	0.3 0.6	1
[...]						

Modify Table N-1 as shown.

Table N-1 Check Table for the Ventilation Rate Procedure (VRP)

Occupancy Category	Combined Outdoor Air Rate (R_c)	
	cfm/ft ²	L/s· m ²
[...]		
Retail		
Sales (except as below)	0.31	1.56
Barbershop	0.33	1.67
Beauty and nail salons	0.83	4.13
Coin-operated laundries	0.36	1.81
Mall common areas	0.48	2.43
Pet shops (animal areas)	0.34	1.71
Supermarket	0.16 <u>0.24</u>	0.81 <u>1.08</u>
[...]		

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ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted Standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the Standards and Guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive Technical Committee structure, continue to generate up-to-date Standards and Guidelines where appropriate and adopt, recommend, and promote those new and revised Standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date Standards and design considerations as the material is systematically revised.

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