



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

First Public Review Draft

Proposed Addendum a to Standard 62.1-2025, Ventilation and Acceptable Indoor Air Quality

**First Public Review (April 2026)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

Supermarkets have grown and 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 were compared to retail sales, an occupancy category known for having higher level of indoor generated contaminants. The results indicated that there was similar if not greater concentration of PM 2.5, Formaldehyde, Acetone, and Acetaldehyde present in supermarkets. Therefore, the Breathing Zone Area Outdoor Air Rate Ra is being increased.

[Note to Reviewers: This addendum makes proposed changes to the current standard. These changes are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) except where the reviewer instructions specifically describe some other means of showing the changes. Only these changes to the current standard are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed changes.]

Addendum a to 62.1-2025

Modify Table 6-1 as follows:

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		OS (6.2.6.2)	Maximum CO ₂ above Ambient, $\Delta C_{6.1}$
	cfm/person	L/s·person	cfm/ft ²	L/s·m ²	Occupant Density			
					#/1000 ft ² or #/100 m ²	Air Class		
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 follows:

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 follows:

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

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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>
