

TABLE 6.1
Minimum Ventilation Rates In Breathing Zone
(This table is not valid in isolation; it must be used in conjunction with the accompanying notes.)

Occupancy Category	People Outdoor Air Rate R_P		Area Outdoor Air Rate R_A		Notes	Default Values		
	cfm/person	L/s•person	cfm/ft ²	L/s•m ²		Occupant Den- sity (see Note 4)	Combined Outdoor Air Rate (see Note 5)	
						#/1000 ft ² (#/100 m ²)	cfm/person	L/s•person
Correctional Facilities								
Cell	5	2.5	0.12	0.6		25	10	4.9
Day room	5	2.5	0.06	0.3		30	7	3.5
Guard stations	5	2.5	0.06	0.3		15	9	4.5
Booking/waiting	7.5	3.8	0.06	0.3		50	9	4.4
Educational Facilities								
Daycare (through age 4)	10	5	0.18	0.9		25	17	8.6
Classrooms (ages 5-8)	10	5	0.12	0.6		25	15	7.4
Classrooms (age 9 plus)	10	5	0.12	0.6		35	13	6.7
Lecture classroom	7.5	3.8	0.06	0.3		65	8	4.3
Lecture hall (fixed seats)	7.5	3.8	0.06	0.3		150	8	4.0
Art classroom	10	5.0	0.18	0.9		20	19	9.5
Science laboratories	10	5.0	0.18	0.9		25	17	8.6
Wood/metal shop	10	5	0.18	0.9		20	19	9.5
Computer lab	10	5	0.12	0.6		25	15	7.4
Media center	10	5	0.12	0.6	A	25	15	7.4
Music/theater/dance	10	5.0	0.06	0.3		35	12	5.9
Multi-use assembly	7.5	3.8	0.06	0.3		100	8	4.1
Food and Beverage Service								
Restaurant dining rooms	7.5	3.8	0.18	0.9		70	10	5.1
Cafeteria/fast food dining	7.5	3.8	0.18	0.9		100	9	4.7
Bars, cocktail lounges	7.5	3.8	0.18	0.9		100	9	4.7
General								
Conference/meeting	5	2.5	0.06	0.3		50	6	3.1
Corridors	-	-	0.06	0.3		-		
Storage rooms	-	-	0.12	0.6	B	-		
Hotels, Motels, Resorts, Dormitories								
Bedroom/living room	5	2.5	0.06	0.3		10	11	5.5
Barracks sleeping areas	5	2.5	0.06	0.3		20	8	4.0
Lobbies/prefunction	7.5	3.8	0.06	0.3		30	10	4.8
Multi-purpose assembly	5	2.5	0.06	0.3		120	6	2.8
Office Buildings								
Office space	5	2.5	0.06	0.3		5	17	8.5
Reception areas	5	2.5	0.06	0.3		30	7	3.5
Telephone/data entry	5	2.5	0.06	0.3		60	6	3.0
Main entry lobbies	5	2.5	0.06	0.3		10	11	5.5
Miscellaneous spaces								
Bank vaults/safe deposit	5	2.5	0.06	0.3		5	17	8.5
Computer (not printing)	5	2.5	0.06	0.3		4	20	10.0
Pharmacy (prep. area)	5	2.5	0.18	0.9		10	23	11.5
Photo studios	5	2.5	0.12	0.6		10	17	8.5

TABLE 6.1 (Continued)
Minimum Ventilation Rates In Breathing Zone
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Occupancy Category	People Outdoor Air Rate R_p		Area Outdoor Air Rate R_A		Notes	Default Values		
	cfm/person	L/s•person	cfm/ft²	L/s•m²		Occupant Den- sity (see Note 4)	Combined Outdoor Air Rate (see Note 5)	
						#/1000 ft² (#/100 m²)	cfm/person	L/s•person
Shipping/receiving	-	-	0.12	0.6	B	-		
Transportation waiting	7.5	3.8	0.06	0.3		100	8	4.1
Warehouses	-	-	0.06	0.3	B	-		
Public Assembly Spaces								
Auditorium seating area	5.0	2.5	0.06	0.3		150	5	2.7
Places of religious worship	5.0	2.5	0.06	0.3		120	6	2.8
Courtrooms	5.0	2.5	0.06	0.3		70	6	2.9
Legislative chambers	5.0	2.5	0.06	0.3		50	6	3.1
Libraries	5.0	2.5	0.12	0.6		10	17	8.5
Lobbies	5.0	2.5	0.06	0.3		150	5	2.7
Museums (children’s)	7.5	3.8	0.12	0.6		40	11	5.3
Museums/galleries	7.5	3.8	0.06	0.3		40	9	4.6
Retail								
Sales (except as below)	7.5	3.8	0.12	0.6		15	16	7.8
Mall common areas	7.5	3.8	0.06	0.3		40	9	4.6
Barber shop	7.5	3.8	0.06	0.3		25	10	5.0
Beauty and nail salons	20	10	0.12	0.6		25	25	12.4
Pet shops (animal areas)	7.5	3.8	0.18	0.9		10	26	12.8
Supermarket	7.5	3.8	0.06	0.3		8	15	7.6
Coin-operated laundries	7.5	3.8	0.06	0.3		20	11	5.3
Sports and Entertainment								
Sports arena (play area)	-	-	0.30	1.5		-		
Gym, stadium (play area)	-	-	0.30	1.5		30		
Spectator areas	7.5	3.8	0.06	0.3		150	8	4.0
Swimming (pool and deck)	-	-	0.48	2.4	C	-		
Disco/dance floors	20	10	0.06	0.3		100	21	10.3
Health club/aerobics room	20	10	0.06	0.3		40	22	10.8
Health club/weight rooms	20	10	0.06	0.3		10	26	13.0
Bowling alley (seating)	10	5.0	0.12	0.6		40	13	6.5
Gambling casinos	7.5	3.8	0.18	0.9		120	9	4.6
Game arcades	7.5	3.8	0.18	0.9		20	17	8.3
Stages, studios	10	5.0	0.06	0.3	D	70	11	5.4

GENERAL NOTES FOR TABLE 6.1

- Related Requirements:** The rates in this table are based on all other applicable requirements of this standard being met.
- Smoking:** This table applies to no-smoking areas. Rates for smoking-permitted spaces must be determined using other methods.
- Air Density:** Volumetric airflow rates are based on an air density of 1.2 kg_{da}/m³ (0.075 lb_{da}/ft³), which corresponds to dry air at a barometric pressure of 101.3 kPa (1 atm) and an air temperature of 21 °C (70 °F). Rates may be adjusted for actual density, but such adjustment is not required for compliance with this standard.
- Default Occupant Density:** The default occupant density shall be used when actual occupant density is not known.
- Default Combined Outdoor Air Rate (per person):** This rate is based on the default occupant density.
- Unlisted Occupancies:** If the occupancy category for a proposed space or zone is not listed, the requirements for the listed occupancy category that is most similar in terms of occupant density, activities, and building construction shall be used.
- Residential facilities, Health care facilities, and Vehicles:** Rates shall be determined in accordance with Appendix E.

ITEM-SPECIFIC NOTES FOR TABLE 6.1

- For high school and college libraries, use values shown for *Public Spaces – Libraries*.
- Rate may not be sufficient when stored materials include those having potentially harmful emissions.
- Rate does not allow for humidity control. Additional ventilation or dehumidification may be required to remove moisture.
- Rate does not include special exhaust for stage effects, e.g., dry ice vapors, smoke.