

TABLE 6.2.2.1 Minimum Ventilation Rates in Breathing Zone (Continued)

(Table 6.2.2.1 shall 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 Density (see Note 4)	Combined Outdoor Air Rate (see Note 5)		Air Class
						#/1000 ft ² or #/100 m ²	cfm/ person	L/s· person	
Residential									
Dwelling unit	5	2.5	0.06	0.3	F, G, H	F			1
Common corridors	—	—	0.06	0.3	H				1
Retail									
Sales (except as below)	7.5	3.8	0.12	0.6		15	16	7.8	2
Mall common areas	7.5	3.8	0.06	0.3	H	40	9	4.6	1
Barbershop	7.5	3.8	0.06	0.3	H	25	10	5.0	2
Beauty and nail salons	20	10	0.12	0.6		25	25	12.4	2
Pet shops (animal areas)	7.5	3.8	0.18	0.9		10	26	12.8	2
Supermarket	7.5	3.8	0.06	0.3	H	8	15	7.6	1
Coin-operated laundries	7.5	3.8	0.12	0.6		20	14	7.0	2
Sports and Entertainment									
Gym, sports arena (play area)	20	10	0.18	0.9	E	7	45	23	2
Spectator areas	7.5	3.8	0.06	0.3	H	150	8	4.0	1
Swimming (pool & deck)	—	—	0.48	2.4	C	—			2
Disco/dance floors	20	10	0.06	0.3	H	100	21	10.3	2
Health club/aerobics room	20	10	0.06	0.3		40	22	10.8	2
Health club/weight rooms	20	10	0.06	0.3		10	26	13.0	2
Bowling alley (seating)	10	5	0.12	0.6		40	13	6.5	1
Gambling casinos	7.5	3.8	0.18	0.9		120	9	4.6	1
Game arcades	7.5	3.8	0.18	0.9		20	17	8.3	1
Stages, studios	10	5	0.06	0.3	D, H	70	11	5.4	1

GENERAL NOTES FOR TABLE 6.2.2.1

- 1 Related requirements:** The rates in this table are based on all other applicable requirements of this standard being met.
- 2 Environmental Tobacco Smoke:** This table applies to ETS-free areas. Refer to Section 5.17 for requirements for buildings containing ETS areas and ETS-free areas.
- 3 Air density:** Volumetric airflow rates are based on dry air density of 0.075 lb_{da}/ft³ (1.2 kg_{da}/m³) at a barometric pressure of 1 atm (101.3 kPa) and an air temperature of 70°F (21°C). Rates shall be permitted to be adjusted for actual density.
- 4 Default occupant density:** The default occupant density shall be used where the actual occupant density is not known.
- 5 Default combined outdoor air rate (per person):** Rate is based on the default occupant density.
- 6 Unlisted occupancies:** Where 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.

ITEM-SPECIFIC NOTES FOR TABLE 6.2.2.1

- For high-school and college libraries, the values shown for “Public Assembly Spaces—Libraries” shall be used.
- Rate may not be sufficient where stored materials include those having potentially harmful emissions.
- Rate does not allow for humidity control. “Deck area” refers to the area surrounding the pool that is capable of being wetted during pool use or when the pool is occupied. Deck area that is not expected to be wetted shall be designated as an occupancy category.
- Rate does not include special exhaust for stage effects such as dry ice vapors and smoke.
- Where combustion equipment is intended to be used on the playing surface or in the space, additional dilution ventilation, source control, or both shall be provided.
- Default occupancy for dwelling units shall be two persons for studio and one-bedroom units, with one additional person for each additional bedroom.
- Air from one residential dwelling shall not be recirculated or transferred to any other space outside of that dwelling.
- Ventilation air for this occupancy category shall be permitted to be reduced to zero when the space is in occupied-standby mode.