

**Table 18-28-403.3
Ventilating Requirements***

* S = Mechanical Supply; E = Mechanical Exhaust From Room; RO = Relief Opening; NR = No Requirement; NV = Natural Ventilation; Vent opening = percentage of floor area.

Room Purpose	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		Remarks
	Less Than	Not Less Than	S, Supply	E, Room Exhaust	
Correctional					
Cell rooms	4	4	0 1.2	0 1.2	
Dry Cleaners/Laundries					
Dry Cleaning	4	4	0 1.5	4 4	See 18-28-403.3.3
Laundries (Residential for less than 30 units)	4	4	0 0	0 1	
Laundries serving general public			1.5	1.5	See 18-28-403.3.3
Linen Rooms			0.5	0.5	
Education					
Music Rooms	4	4	0 1.5	0 0.75	
Class Rooms/Auditoriums	4	4	0 1.5	0 0.75	
Cooking Rooms for Instruction only	4	4	0 1.0	1.5 1.5	
Libraries/Reading Rooms	4	4	0 1.2	0 0.6	
Food and Beverage Service					
Cafeterias/Food Courts	4	4	0 1.5	0 2.0	
Public Dining Rooms - no cooking equipment	4	4	0 1.5	0 1.5	
Public Dining Rooms - with cooking equipment	4	4	0 1.5	2 2	
Grills	1	1	0 1.5	2 2	
Kitchen, public	3	3	0 1.2	4 4	See Note 5.
Lounges/Bars	4	4	0 1.0	0 1.5	

Mechanical Refrigeration Systems

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Room Purpose	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		Remarks
	Less Than	Not Less Than	S, Supply	E, Room Exhaust	
Health Care					
Anesthesia Storage Rooms			1.2	1.2	See Note 5.
Autopsy Rooms			1.5	3.0	See Note 5.
Doctor's - Dentist exam rooms	4	4	0 0.6	0 0.3	
Delivery Rooms/Birthing Rooms			2.0	1.0	
Intensive Care			2.0	1.0	No recirculation within room.
Morgues			1.5	3.0	See Note 5.
Nurseries			2.0	1.0	
Operating Rooms			2.0	1.0	No recirculation within room.
Patient Rooms	4	4	0 0.3	0 0.3	May exhaust through toilet room.
Physiotherapy	4	4	0 0.6	0 0.3	
Recovery Rooms			1.0	1.0	No recirculation within room.
Sterilizing Equipment Rooms			1.6	1.6	No recirculation within room. See Note 5.
Treatment Rooms			0.6	0.3	
X-Ray operator's rooms			0.6	0.3	
Hotels, Motels and Dormitories					
Banquet Halls/Assembly Pre-function			2.0	1.5	
Hotels (Lobby)	4	4	0 1.0	0 NR	
Sleeping Rooms	4	4	0 0.3	0 0.3	May exhaust through toilet room.
Foyers except the above			0	0	
Sleeping Rooms (Dormitories)		4	NV	NV	See Chapter 13-172 Light and Ventilation.
Offices					
Lunch Rooms - no cooking	4	4	0 1.5	0 1.5	
Offices and computer rooms	4	4	0 0.6	0 0.3	
Entrance lobby	4	4	0 1.0	0 NR	

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Room Purpose	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		Remarks
	Less Than	Not Less Than	S, Supply	E, Room Exhaust	
Private Dwellings (Single and Multiple)					
Living Quarters			NV	NV	See Chapter 13-172.
Living Quarters (Kitchen)	4	4	0 0	0 1.5	See Notes 1 and 4.
Toilet Rooms (residential)	4	4	0 0	0 1.5	See Notes 2 and 4.
Residential Dryers	NA	NA	0		See Notes 3 and 4.
Multi-Purpose Rooms	NR	NR	0.3	0.3 or R.O.	
Public Spaces					
Corridors			NR	NR	
Dressing Rooms	4	4	0 1.0	0 1.2	
Janitor's Closet			0	2.0	See Note 5.
Locker Rooms	4	4	0 0.3	0 1.2	See Note 5.
Pedestrian Passageways (below grade)			1.5	1.0	
Pedestrian Passageways (above grade)	4	4	0 1.5	0 1.0	
Shower Rooms		4	0	0	
Smoking Rooms	4	4	0 1.0	0 1.5	See Note 5.
Toilet Rooms	4	4	0 0	0 2.0	See Note 5.
Waiting Rooms	4	4	0 1.0	0 1.0	
Retail Stores					
Malls	4	4	0 1.0	0 1.0	
Retail Stores	4	4	0 1.0	0 1.0	
Specialty Shops					
Auto and vehicle washing (attended)			1.0	1.0	See Note 5.
Auto repair shops			1.0	1.0	See Note 5.
Photo materials and engraving	4	4	0 1.0	0 1.0	See 18-28-403.3.3
Beauty Parlors/Barber Shops	4	4	0 1.2	0 1.2	See Note 5.

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Room Purpose	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		Remarks
	Less Than	Not Less Than	S, Supply	E, Room Exhaust	
Theaters					
Auditoriums (including stage)	4	4	0 2.0	0 1.5	
Concert Halls	4	4	0 2.0	0 1.5	
Foyers in Theaters	4		1.0 2.0	1.0 1.0	
Studios – motion picture, radio, TV			1.5	0.75	Or RO.
Theatrical Community Centers	4	4	0 1.5	0 0.75	
Workrooms					
Workshops not otherwise classified	4	4	0 1.2	0 1.2	See 18-28-403.3.3.
Wood working shop	0 4	4	0 1.2	0 1.2	See Article 5 - Makeup air is required when direct exhaust > 5, 000 CFM.
Spray Finishing	4	4	1.5	1.2	See Article 5 - Makeup air is required when direct exhaust > 5, 000 CFM.
Spray Booths	4	4	1.5	1.5	See Article 5 - Makeup air is required when direct exhaust > 5, 000 CFM.
Bank Vaults Attended			0.6	0.3	
Battery Charging - Dry Cell Batteries			NR	0.5	3 or more batteries.
- Other Batteries			NR	1.0	
Sports and Amusement					
Bowling Alleys (seating areas)	4	4	0 1.7	0 0.85	
Ball Rooms	4	4	0 2.0	0 1.5	
Cabarets	4	4	0 2.0	0 1.5	
Dance Halls/Discos	4	4	0 2.0	0 1.5	
Game Rooms/Arcades	4	4	0 1.6	0 1.6	
Gymnasiums	4	4	0 2.0	0 1.5	Or RO.
Natatoriums (deck and seating)	4	4	0 2.0	0 1.5	

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	Less Than	Not Less Than	S, Supply	E, Room Exhaust	
Sports and Amusement (Cont.)					
Recreation Rooms	4	4	0 2.0	0 1.5	
Skating Rinks, Ice Arenas	4	4	0 1.5	0 1.5	
Skating Rinks, Roller	4	4	0 2.0	0 1.5	
Storage					
Storage inactive			0	0	
Storage active			0.5	0.5	
Storage cold (no permanent occupancy)			0	0	
Vault, Storage			NR	NR	
Laboratories					
Laboratories	5	5	0 1.2	0 1.2	See 18-28-403.3.3.
Animal Rooms			0	1.5	
Religious					
Auditoriums for worship/Chapels	4	4	0 1.5	0 0.75	Or RO.
Special Use					
Convention Halls	4	4	0 2.0	0 1.5	
Council Chambers	4	4	0 2.0	0 1.5	
Court Rooms	4	4	0 2.0	0 1.5	
Exhibition Rooms			1.5	0.75	Or RO.
Fraternal Rooms			1.5	0.75	Or RO.
Lodge Halls			1.5	0.75	Or RO.
Museums			0.6	NR	Or RO.
Garages/Parking Structures					See Miscellaneous
Garages, 6 or more cars			0.75 RO	1.0 1.0	
Garages, less than 6 cars			RO	RO	1.0 sf of opening per car.
Garages in or attached to Hospitals			0.75 RO	1.0 1.0	Exhaust duct, 14 gauge.

Mechanical Refrigeration Systems

§ 18-28-403.13

Note 1. When a common exhaust system serves multiple kitchens, a minimum 75% of the ordinance air shall be used in sizing of central fan and ductwork, provided automatic controls are installed to shut off exhaust from individual kitchens when not in use.

Note 2. When a common exhaust serves multiple toilet rooms, a minimum 50% of the ordinance air shall be used in sizing of central fan and ductwork, provided automatic controls are installed to shut off exhaust from individual toilet rooms when not in use.

Note 3. Provide a minimum room exhaust of 110 CFM per electric dryer.

Note 4. Corridor make-up air system for residential building over 55 feet in height shall be sized to equal the total of toilet, kitchen and dryer air exhaust requirements.

Note 5. There shall be no recirculation permitted from these spaces.

(Amend Coun. J. 9-14-16, p. 31143, § 8; Amend Coun. J. 3-29-17, p. 45477, § 12)