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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.

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

Room Purpose	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		
	Less Than	Not Less Than	S, Supply	E, Room Exhaust	Remarks
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	0	0	
	4		0.6	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	0	0	May exhaust through toilet
	4		0.3	0.3	room.
Physiotherapy		4	0	0	
	4		0.6	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	0	0	
	4		1.0	NR	
Sleeping Rooms		4	0	0	May exhaust through toilet
	4		0.3	0.3	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	0	0	
	4		1.5	1.5	
Offices and computer rooms		4	0	0	
	4		0.6	0.3	
Entrance lobby		4	0	0	
	4		1.0	NR	

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

	Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		
Room Purpose	Less Than	Not Less Than	S, Supply	E, Room Exhaust	Remarks
Theaters					
Auditoriums (including stage)		4	0	0	
	4		2.0	1.5	
Concert Halls		4	0	0	
	4		2.0	1.5	
Foyers in Theaters			1.0	1.0	
	4		2.0	1.0	
Studios – motion picture, radio, TV			1.5	0.75	Or RO.
Theatrical Community Centers		4	0	0	
	4		1.5	0.75	
Workrooms					
Workshops not otherwise classified		4	0	0	
	4		1.2	1.2	See 18-28-403.3.3.
Wood working shop	0	4	0	0	See Article 5 - Makeup air
	4		1.2	1.2	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			See Article 5 - Makeup air
	4		1.5	1.5	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	0	0	
	4		1.7	0.85	
Ball Rooms		4	0	0	
	4		2.0	1.5	
Cabarets		4	0	0	
	4		2.0	1.5	
Dance Halls/Discos		4	0	0	
	4		2.0	1.5	
Game Rooms/Arcades		4	0	0	
	4		1.6	1.6	
Gymnasiums		4	0	0	Or RO.
	4		2.0	1.5	
Natatoriums (deck and seating)		4	0	0	
	4		2.0	1.5	

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Sports and Amusement (Cont.) Recreation Rooms		Vent Opening Percent of Floor Area		Mechanical Ventil. CFM/SF		
A	Room Purpose	Less Than			E, Room Exhaust	- Remarks
A	Sports and Amusement (Cont.)					
A	Recreation Rooms		4	0	0	
A		4		2.0	1.5	
Skating Rinks, Roller	Skating Rinks, Ice Arenas		4	0	0	
Storage Storage inactive O O O O O O O O O O O O O O O O O O		4		1.5	1.5	
Storage Storage inactive 0 0 0 0	Skating Rinks, Roller		4	0	0	
Storage inactive 0		4		2.0	1.5	
Storage active 0.5 0.5	Storage	•			I.	
Storage cold (no permanent occupancy)	Storage inactive			0	0	
Vault, Storage NR NR Laboratories 5 0 0 See 18-28-403,3,3. Laboratories 5 0 0 See 18-28-403,3,3. Animal Rooms 0 1.5 Religious Religious Auditoriums for worship/Chapels 4 0 0 Special Use Convention Halls 4 0 0 Council Chambers 4 0 0 4 2.0 1.5 Count Rooms 4 0 0 0 Exhibition Rooms 4 0 0 Exhibition Rooms 1.5 0.75 Or RO. Exhibition Rooms 1.5 0.75 Or RO. Lodge Halls 1.5 0.75 Or RO. Museums 0.6 NR Or RO. Garages/Parking Structures RO 1.0 Company of the part of the	Storage active			0.5	0.5	
Laboratories	Storage cold (no permanent occupancy)			0	0	
Laboratories 5 0 0 0 See 18-28-403.3.3. Animal Rooms 0 1.5 Religious Auditoriums for worship/Chapels 4 0 0 0 1.5 Special Use Convention Halls 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vault, Storage			NR	NR	
S	Laboratories	<u> </u>		<u> </u>		
Animal Rooms	Laboratories		5	0	0	See 18-28-403.3.3.
Auditoriums for worship/Chapels		5		1.2	1.2	
Auditoriums for worship/Chapels 4 0 0 1.5 0.75 Or RO. Special Use Convention Halls 4 0 0 2.0 1.5 Council Chambers 4 0 0 0 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 5 Exhibition Rooms 1.5 0.75 0r RO. Exhibition Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Cour	Animal Rooms			0	1.5	
Auditoriums for worship/Chapels 4 0 0 1.5 0.75 Or RO. Special Use Convention Halls 4 0 0 2.0 1.5 Council Chambers 4 0 0 0 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 4 2.0 1.5 Court Rooms 5 Exhibition Rooms 1.5 0.75 0r RO. Exhibition Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Courd Rooms Courd Rooms 1.5 0.75 0r RO. Courd Rooms Cour	Religious	Į.				
A			4	0	0	
A		4		1.5	0.75	Or RO.
A	Special Use	l		1		
Council Chambers 4 0 0 Court Rooms 4 0 0 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, 5 or more cars RO 1.0 Garages, 5 or more cars 0.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	Convention Halls		4	0	0	
4		4		2.0	1.5	
Court Rooms 4 0 0 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, 5 or more cars RO 1.0 Garages, 5 or more cars 0.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	Council Chambers		4	0	0	
Court Rooms 4 0 0 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, 5 or more cars RO 1.0 Garages, 5 or more cars 0.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.		4		2.0	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. See Miscellaneous Garages, 5 or more cars RO Garages, 5 or more cars Garages, less than 5 cars RO RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	Court Rooms		4			
Traternal Rooms		4		2.0	1.5	
Lodge Halls 1.5 0.75 Or RO. Museums 0.6 NR Or RO. See Miscellaneous Garages, 5 or more cars RO Garages, 5 or more cars Garages, 1 cars RO	Exhibition Rooms			1.5	0.75	Or RO.
Museums O.6 NR Or RO. Garages/Parking Structures Garages, 5 or more cars Garages, 5 or more cars O.75 1.0 Garages, less than 5 cars Garages in or attached to Hospitals O.6 NR Or RO. See Miscellaneous RO 1.0 to see Miscellaneous Analysis of the see Miscellaneous RO 1.0 to see Miscellaneous RO 1.0 to see Miscellaneous 1.0 t	Fraternal Rooms			1.5	0.75	Or RO.
Museums O.6 NR Or RO. Garages/Parking Structures Garages, 5 or more cars Garages, 5 or more cars O.75 1.0 Garages, less than 5 cars Garages in or attached to Hospitals O.6 NR Or RO. See Miscellaneous RO 1.0 to see Miscellaneous Analysis of the see Miscellaneous RO 1.0 to see Miscellaneous RO 1.0 to see Miscellaneous 1.0 t	Lodge Halls			+		Or RO.
Garages/Parking Structures See Miscellaneous Garages, 5 or more cars RO 1.0 Garages, 5 or more cars 0.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	Museums			+		
Garages, 5 or more cars RO 1.0 Garages, 5 or more cars 0.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	Garages/Parking Structures					
Garages, 5 or more cars O.75 1.0 Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals O.75 1.0 Exhaust duct, 14 gauge.				RO	1.0	
Garages, less than 5 cars RO RO 1.0 sf of opening per car. Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.	-					
Garages in or attached to Hospitals 0.75 1.0 Exhaust duct, 14 gauge.				+		1.0 sf of opening per car.
				+		
	,			RO	1.0	