

CALIFORNIA MECHANICAL CODE
(Part 4, Title 24, California Code of Regulations)

June 1, 2007 Addendum #1

Addendum No. 1 has been issued for the 2007 California Mechanical Code. This addendum as noted shall become part of this code and supersede the original document.

Please keep the removed page(s) with this addendum for future reference.

TABLE 4-2
Zone Air Distribution Effectiveness
 [ASHRAE 62.1:Table 6-2]

Air Distribution Configuration	<i>E_z</i>
Ceiling supply of cool air	1.0
Ceiling supply of warm air and floor return	1.0
Ceiling supply of warm air at least 15°F (8°C) above space temperature	0.8
and ceiling return.	
Ceiling supply of warm air less than 15°F (8°C) above space	1.0
temperature and ceiling return provided that the 150 fpm (0.8 m/s)	
supply air jet reaches to within 4.5 ft. (1.4 m) of floor level.	
Floor supply of cool air and ceiling return provided that the 150 fpm	1.0
(0.8 m/s) supply jet reaches at least 4.5 ft. (1.4 m) above the floor.	
Floor supply of cool air and ceiling return, provided low velocity	1.2
displacement ventilation achieves unidirectional flow and thermal	
stratification.	
Floor supply of warm air and floor return	1.0
Floor supply of warm air and ceiling return	0.7
Makeup supply drawn in on the opposite side of the room from the	0.8
exhaust or return.	
Makeup supply drawn in near to the exhaust or return location	0.5

Notes for Table 4-2

1. "Cool air" is air cooler than space temperature.
2. "Warm air" is air warmer than space temperature.
3. "Ceiling" includes any point above the breathing zone.
4. "Floor" includes any point below the breathing zone.
5. As an alternative to using the above values, determine *E_z* in accordance with ASHRAE Standard 129 for all air distribution configurations except unidirectional flow.

TABLE 4-3
System Ventilation Efficiency
 [ASHRAE 62.1:Table 6-3]

Max (<i>Z_p</i>)	<i>E_V</i>
< 0.15	1.0
< 0.25	0.9
< 0.35	0.8
< 0.45	0.7
< 0.55	0.6
> 0.55	Use ASHRAE 62.1, Appendix A

Notes for Table 4-3.

1. "Max *Z_p*" refers to the largest value of *Z_p*, calculated using Equation 4-5, among all the zones served by the system.
2. Interpolating between table values is permitted.

TABLE 4-4 Minimum Exhaust Rates
[ASHRAE 62.1:Table 6-4]

Occupancy Category	Exhaust Rate cfm/unit	Exhaust Rate cfm/ft ²	Exhaust Rate L/s-unit	Exhaust Rate L/s-m ²
Art classrooms	-	0.70	-	3.5
Auto repair rooms ¹	-	1.50	-	7.5
Barber shop	-	0.50	-	2.5
Beauty and nail salons	-	0.60	-	3.0
Cell with toilet	-	1.00	-	5.0
Darkrooms	-	1.00	-	5.0
Arena ²	-	0.50	-	2.5
Kitchen – commercial	-	0.70	-	3.5
Kitchenettes	-	0.30	-	1.5
Locker rooms	-	0.50	-	2.5
Locker/dressing rooms	-	0.25	-	1.25
Parking garages ³	-	0.75	-	3.7
Janitor, trash, recycle	-	1.00	-	5.0
Pet shops (animal areas)	-	0.90	-	4.5
Copy, printing rooms	-	0.50	-	2.5
Science lab classrooms	-	1.00	-	5.0
Toilets – public ⁴	50/70	-	25/35	-
Toilet – private ⁵	25/50	-	12.5/25	-
Woodwork shop/classroom	-	0.50	-	2.5

Notes For Table 4-4

- 1 Stands where engines are run shall have exhaust systems that directly connect to the engine exhaust and prevent escape of fumes.
- 2 The rates do not include exhaust from vehicles or equipment with internal combustion engines.
- 3 Exhaust not required if two or more sides comprise walls that are at least 50% open to the outside.
- 4 Rate is per water closet or urinal. Provide the higher rate where periods of heavy use are expected to occur, e.g., toilets in theatres, schools, and sports facilities.
- 5 Rate is for a toilet room intended to be occupied by one person at a time. For continuous system operation during normal hours of use, the lower rate may be used. Otherwise use the higher rate.