

# 1 Ventilation Checklist 1—Forced Air Systems SENTENCE 9.32.3.4(6)

Use this Checklist where **forced air heating system ducts intake and distribute** ventilation air.

Civic Address _____		Permit No. _____	
Climate Zone: ____	Number of Bedrooms	<input type="text"/>	(A) A bedroom is a room with an openable window (minimum dimensions apply), a closet and a closing interior door.
Total Floor area of conditioned space		<input type="text"/> ft <sup>2</sup>	(B)
Total Interior Volume of Dwelling		<input type="text"/> ft <sup>3</sup>	Total volume includes all heated interior spaces
.5 ACH (air changes/hr) = Volume x 0.5 ÷ 60 =		<input type="text"/> cfm	(C) Exhaust appliances exceeding .5 ACH may require make-up air.

### 1. Principal Ventilation System Exhaust Fan Minimum Air-flow Rate

Use the bedroom count from Box (A) and Total square footage from Box (B) above and Table 9.32.3.5. to determine

**Minimum Required Principal Exhaust System Capacity**  cfm (D)

### 2. Principal System Fan Choice

a) Exhaust Fan continuous running Make \_\_\_\_\_ Model \_\_\_\_\_ Sone Rating \_\_\_\_\_

Location: \_\_\_\_\_ **Capacity at 0.2 ESP**  cfm (E) Must be ≥ than Box (D)  
If CEV, capacity @0.4ESP

### 3. Fan Duct Size and Equivalent Length

Use actual fan cfm in Box(E) above and Table 9.32.3.8 (3) [See note at bottom of page for larger fan duct sizing].

a) Length of duct \_\_\_\_\_ ft + Exterior hood 30ft + number of 90° elbows \_\_\_\_\_ X 10 ft = \_\_\_\_\_ **Equivalent Length**

Maximum Equivalent Length allowed in Table 9.32.3.8(3) = \_\_\_\_\_

b) Fan Duct size: \_\_\_\_\_ inches Ø Duct type: \_\_\_ Rigid \_\_\_ Flex

### 4. Required Kitchen and Bathroom Exhaust Fans: Re-list below if Principal Exhaust Fan meets all or part of Kitchen/Bathroom spot Exhaust requirements.

ROOM	REQUIRED EXHAUST RATE Table 9.32.3.6	EXHAUST EQUIPMENT						Ex.Fan/CEV Principal System CFM
		Spot Exhaust Kitchen & Bath WALL/CEILING FANS					Principal System CFM	
		Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	*Duct Sizing per Table 9.32.3.8.(3)		Max. Equiv. Length per table		
rigid	flex							

\* For fan capacities **exceeding** 175cfm in Table 9.32.3.8(3), follow manufacturer's installation instructions or use good engineering practice to size duct.  
See *Ventilation Guidelines* Appendix page 16-A

TOTAL (must = Box E)	<input type="text"/>
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