

4 Ventilation Checklist 4: Passive Inlets

SENTENCE 9.32.3.4(6)

Use this checklist for **small ($\leq 1800 \text{ ft}^2$), single level, non-forced air heated dwellings** located in mild coastal & moderate interior climates where **winter 2.5% design temperature is warmer than -4°F**

Civic Address: _____		Permit No. _____	
Climate Zone: _____	Number of bedrooms	(A)	A bedroom is a room with an openable window (minimum dimensions apply), a closet and a closing interior door.
Total floor area of living space		ft^2 (B)	
Total interior Volume of dwelling		ft^3	Total volume includes all heated interior spaces (including crawlspace if heated).
0.5 ACH (air changes/hr) = Volume x 0.5 ÷ 60 =		cfm (C)	Exhaust appliances exceeding .5 ACH may require make-up air.

1. Principal ventilation system exhaust fan minimum airflow rate

Use bedroom count from box (A) & total square footage from box (B), & Table 9.32.3.5. to determine:

Minimum required principal exhaust system capacity: cfm (D)

2. Principal system fan selection:

Continuous exhaust fan: Make: _____ Model: _____ Sone Rating: _____

Location: _____ Capacity @ 0.2"wc ESP: cfm (E)

*If CEV: Capacity @ 0.4 ESP Must be \geq box (D)

3. Fan duct size and equivalent length:

Length of duct _____ ft Using: eL (F) & volume (E), determine duct size according to table 9.32.3.8 (3) in. \varnothing

Hood termination + 30 ft

_____ Elbows x 10 ft. each _____ ft → Total equivalent length (eL) ft. (F)

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4. Requirements for passive inlets to supply outdoor air (OA) to dwelling

- a) Inlet is located high on the wall, minimum 6' above the floor, and
- b) One inlet is located in each bedroom & at least one common area, and
- c) Inlet free area is greater than, or equal to 4 in²

5. If heated crawlspace present

- Option 1,2, or 3, per BCBC 9.32.3.7(2) No heated crawlspace present

6. Make-Up Air Requirements: Naturally Aspirated Fuel Fired Vented Appliance (NAFFVA) present? (9.32.4.1)

- No, Omit Step 8 Yes, Proceed to Step 8

8. Exhaust appliance present which exceeds Box C 0.5 ACH:

- No Yes, Complete "Large Exhaust Make-up Air Checklist"

