

Ventilation Checklist 4—Exhaust Fan & Passive Inlets Sentence 9.32.3.4(6)

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

Constat C	c mouerui	e mierior climates where	· Willie	uesign	temp	crattire is	warmer tha	11.	
Civic Address				Permit No					
Climate Zone: Number of Bedrooms Total Floor area of living space			S		(A)	window (m	bedroom is a room with an openable dow (minimum dimensions apply), a set and a closing interior door.		
				ft²	(B)	closet and a			
Total Interior Volume of Dwelling				ft³		Total volume includes all heated interior spaces (including crawlspace if heated).			
.5 ACH (air changes/hr) = Volume x $0.5 \div 60 =$			=	cfm	(C)	Exhaust appliances exceeding .5 ACH may require make-up air.			
Use the bedr determine	oom count	System Exhaust Fan M from Box (A) and Total sq uired Prinicpal Exhaust	uare foo	tage fro	m Box			32.3.5. to	
2. Principal System Fan Choice								,	
a) Exhaust Fan continuous running MakeModelSone							Rating		
,		5	(Capaci	ty –			_	
Location:				at 0.2 E		cfm (E) Must be \geq than Box (D)			
a) InstalledLength ob) Choose tc) Duct size	Equivalent f ductype of duct e required	ft + Ext. hood 30 ft +	(#	elbows Flex	at 10 :	or Rigi) = [id (smooth)	ft (F) duct in Ø	
-	n/Bathroo	nd Bathroom Exhaust F m spot Exhaust requirem		-list be	low if	Principal	Exhaust Fa	n meets all or	
	Required Exhaust Rate Table 9.32.3.6	EXHAUST EQUIPMENT							
ROOM		Spot Emiliant Thomas & Bull Willes, eBiblive 1111.						Ex.Fan/CEV	
		Fan Make & Model	CFM @ 0.2 ESP Manf. Rated	*Duct Di rigid		Max. Equiv. Length per table	2.32.3.8.(3) Installed Equiv. Length	Principal System CFM	
* F f		oding 175 ofm in Table 0.32	2.9(2). (. 11	C .		TOTAL		

* For fan capacities **exceeding** 175cfm in Table 9.32.3.8(3), follow manufacturer's

(must =

installation instructions or use good engineering practice to size duct. See Ventilation Box E) Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 4, pg1 of 2

Removed reference to RADON in Make-up Air Requiren	eents
 5. Required Inlets for passive Ventilation Air Supply a) High wall installation (minimum 6 ft above floor) b) Located in each bedroom and at least one common c) Inlet Free Area greater than or equal to 4 Sq In 	area
6. If Heated Crawlspace present	2.7.(2)
☐ Choose ventilation option 1, 2, or 3 per sentence 9.32	3.7 (2).
MAKE-UP AIR Requirements 1. NAFFVA (Naturally Aspirated Fuel Fired Vented Appliance) pres No, Omit Steps 2 & 3 Yes, Proceed to Step 2	sent in dwelling unit? (per Sentence 9.32.4.1)
 2. Exhaust Appliance present which exceeds Box C 0.5 ACH: No such appliance. Omit Step 3 Yes, Commit to Depressurization Test (See CAUTION, TECA Yes, Proceed to Step 3 	Vent Manual pg 24)
3. Use Active Make-up Air for Exhaust Appliance. (Choose a or b) Make-up Air Fan required: Fan Make Model Duct diameter inches Fan Location	ust Appliance Actual Installed Cfm Make-up Air Fan Cfm
Duct diameter inches Fan Location	<u> </u>
Fan interconnected with exhaust appliance fan. Fan ducted to a) Active Make-up Air delivered to an Unoccupied Area first (no i) Tempering Required per 9.32.4.1.(4)(a): Show calculation how make-up air will be tempered to at least	34°F (1°C) before entering unoccupied area.
Make-up Fan cfm X 1.08 X (34° F – °F Winter	$\frac{\text{Design Temp your location})}{\sqrt{\frac{1}{\sqrt{1}}}}}}}}}}$
iii) Additional Tempering Required per 9.32.4.1.(4)(b) before transhow make-up air will be further tempered to at least 54°F (Make-up Fancfm x 1.08 x (54° F – 34°F) 3412 BTUH/kw Tempered by: OR b) Active Make-up Air delivered to an Occupied Area: Tempered to at least 54°F (12°C).	12°C). =(kw) Heat from unoccupied area required to raise temp by 20°F
Make-up Fan cfm x 1.08 x (54° F –°F Winter	Design Temp your location) =(kw)
3412 BTUH/kw	Duct Heater
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Installer Certification: I hereby certify that the design and installation of the ventilation sys complies with the 2012 B.C. Building Code, 2014 Section 9.32 Ame	
Date	
Print Name	
Signature_	
Company	
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