2014 Amendment to Section 9.32 Ventilation

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

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

Civic Address		Permit No		
Climate Zone: Number of Bedrooms	(A)	A bedroom is a room with an openable window (minimum dimensions apply), a		
Total Floor area of living space	ft ² (B)	closet and a closing interior door.		
Total Interior Volume of Dwelling	ft ³	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.		
1. Principal Ventilation System Exhaust Fan Min	nimum Air-flow R	ate		
Use the bedroom count from Box (A) and Total squa				
determine	0			
Minimum Required Prinicpal Exhaust Sy	stem Capacity	cfm (D)		
2. Principal System Fan Choice				
a) Exhaust Fan continuous running Make	Model	Sone Rating		
0	Capacity			
Location:	at 0.2 ESP	cfm (E) Must be \geq than Box (D)		
3 Fon Dust Size and Fourivalant Longth	If CEV, capacit	y @0.4ESP		
3. Fan Duct Size and Equivalent Length				
a) Installed Equivalent Length:				
Length of duct ft + Ext. hood 30 ft + (data data data data data data data data			
b) Choose type of duct:		or Rigid (smooth) duct		
c) Duct size required to flow Box E cfm through	Box F equivalent l	ength of duct =		
Use Table 9.32.3.8 (3) to determine duct size.		in Ø		

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

	REQUIRED	EXHAUST EQUIPMENT						
	Exhaust Rate	Spot Exhaust Kitchen & Bath WALL/CEILING FANS			FANS	Ex.Fan/CEV		
ROOM Table 9.32.3.6		Fan Make & Model	CFM @ 0.2 ESP Manf.	*Duct Sizing per Table 9.32.3.8.(3)			Principal	
	9.32.3.6			Duct Dia (in Ø)		Max. Equiv.	Installed Equiv.	System CFM
			Rated	rigid	flex	Length per table	Length	
		ling 175cfm in Table 9.3 use good engineering pr					TOTAL (must = Box E)	

Guidelines Appendix page 16-A, Duct Sizing for Larger Fans. © March 2015 TECA All Rights Reserved Checklist 4, pg1 of 2

emoved reference to RADON	in Make-up Air R	equirements		
 5. Required Inlets for passiv a) High wall installation (b) Located in each bedrood c) Inlet Free Area greater 	minimum 6 ft above om and at least one o	e floor) common area		
6. If Heated Crawlspace pre		nce 9.32.3.7 (2).		
MAKE-UP AIR Requireme 1. NAFFVA (Naturally Aspirated F No, Omit Steps 2 & 3 Yes, Proceed to Step 2		ance) present in dwelli	ng unit? (per Sentence	e 9.32.4.1)
 2. Exhaust Appliance present wh No such appliance. Omit Step Yes, Commit to Depressurizati Yes, Proceed to Step 3 	3		og 24)	
3. Use Active Make-up Air for Exh Make-up Air Fan required: Fan Make	aust Appliance. (Choos Model	se a or b) Exhaust Applianc	e Actual Installed C Make-up Air Fan C	fm fm
Duct diameterincl	hes Fan	Location		
a) Active Make-up Air delivered i) Tempering Required per 9.32. Show calculation how make-	4.1.(4)(a):			
Make-up Fan cfm X	1.08 X (34° F –	°F Winter Design Tem	p your location)	= (kw)
ii) Transfer Grill Required: Size iii) Additional Tempering Requi how make-up air will be fu Make-up Fan	1 sq in of gross area per red per 9.32.4.1.(4)(b)	before transfer to occup east 54°F (12°C).	ied area: Show calcul	ation and describe
Tempered by: OR b) Active Make-up Air delive be tempered to at least 54°H Make-up Fan cfm x	ered to an Occupied A F (12°C).	rea: Tempering Requi _°F Winter Design Tem	p your location) =	n how make-up air wil (kw) Duct Heater
Installer Certification:			© March 2015 T 2012 TECA	ECA All Rights Reserve
	installation of the yest	ilation quatom	2012 TECA	

Installer Certification: I hereby certify that the design and installation of the ventilation system	n Certification Stamp
complies with the 2012 B.C. Building Code, 2014 Section 9.32 Amend	
Date	
Print Name	
Signature	
Company	
Phone	
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