

BUILDER		LOCATION	
Name		Address	
Address		Ventilation Contractor	
Normal Operating Exhaust Capacity Range of Principal Exhaust Fan		Name	
Minimum of Range (See back) <input type="text"/> 01 l/s	Maximum of Range (See back) <input type="text"/> 02 l/s	Address	
Actual Normal Operating Exhaust Capacity (NOEC) of Principal Exhaust Fan		SYSTEM DESIGN	
Actual NOEC (See back) <input type="text"/> l/s		03 <input type="checkbox"/>	
Confirm that line 03 >= line 01 and <= line 02 Y <input type="radio"/> N <input type="radio"/>		04 <input type="checkbox"/>	
Two Speed Principal Exhaust Fan (if applicable)			
(See back) Maximum Operating Exhaust Capacity (MOEC) = <input type="text"/> l/s		05 <input type="checkbox"/>	
High speed of 2 speed fan check = 2.5 x (line 01) = <input type="text"/> l/s		06 <input type="checkbox"/>	
Line 05 - Line 06 = <input type="text"/> l/s		07 <input checked="" type="checkbox"/> 7. Exhaust Only System - No Provision for Make-Up (Outdoor Air) If either line 11 or 13 is 'Y' or line 14 is 'N' then an Exhaust Only System is not permitted to be used. If line 10 is 'N' then Option 2 must be used to consider an Exhaust Only System. If line 12 is 'Y' then make-up air is required for all exhaust air fans other than the principal exhaust fan operating at a rate not greater than the maximum of the range permitted.	
<input type="checkbox"/> Forced Air Distribution System (Option 1)			
Circulation Fan Rated Capacity (low speed) l/s = <input type="text"/> l/s		08 <input type="checkbox"/>	
Check minimum capacity required = 5 x (line 03) = <input type="text"/> l/s		09 <input type="checkbox"/>	
Confirm that line 08 >= line 09 Y <input type="radio"/> N <input type="radio"/>		10 <input type="checkbox"/>	
<input type="checkbox"/> Exhaust Ducts with Balancing Dampers (Option 2)		Kitchen exhaust supplementary exhaust fan	
If this option is chosen a plan must be provided showing how the requirements of 9.32.3.6 of the 2005 NBC will be complied with.		Minimum capacity for separate exhaust fan for kitchen = 50 l/s except where the principal exhaust fan draws from the kitchen only or where it draws from the kitchen and other rooms and line 07 >= 0. Kitchen exhaust supplementary fan capacity = <input type="text"/> l/s	
Confirm Outdoor Air Supply is not Required		Bathroom exhaust inlet is not part of Principal Exhaust	
Are there one or more fuel fired space and water-heating units of other than direct-vented or mechanically vented. Y <input type="radio"/> N <input type="radio"/>		Minimum capacity for separate exhaust fan for each bathroom = 25 l/s Bathroom exhaust supplementary fan capacity = <input type="text"/> l/s per room	
Is soil gas deemed to be a problem and provisions have not been made for an active soil gas mitigation system. Y <input type="radio"/> N <input type="radio"/>		11 <input type="checkbox"/> Controls (see the NBC for other requirements)	
Does the dwelling unit contains a solid fuel burning appliance or other than direct-vented fireplace. Y <input type="radio"/> N <input type="radio"/>		12 <input type="checkbox"/> 1. A switch marked 'VENTILATION FAN' is required in the living area.	
Has the capacity for the exhaust fans used been measured at the minimum external static pressure differentials of		13 <input type="checkbox"/> 2. A switch is required in the kitchen to activate the high speed of the Principal Exhaust Fan if a separate exhaust fan is not provided.	
1) 100 Pa (.4 inch water column) with ducts on both sides,		14 <input type="checkbox"/> 3. If more than one fan is used for the Principle exhaust system they must be interconnected	
2) 62 Pa (.25 inch water column) - principal ventilation fan with ducts on one side only, and		4. The Principal Exhaust Fan must be interconnected with the make-up air fan and the furnace as applicable.	
3) 25 Pa (0.1 inch water column) - other fans Y <input type="radio"/> N <input type="radio"/>			
CERTIFICATION			
I certify that this ventilation system has been designed in accordance with the requirements of the 2005 National Building Code, section 9.32.3		Name:	
		Company:	
		Address:	
		Telephone:	
		Signature	

Ventilation Sheet (Continued on front)

(S7)

Revised 04/06/2010

Normal Operating Exhaust Capacity (NOEC) of PVFan (Range)		
Number of Bedrooms	Minimum	Maximum
1	16	24
2	18	28
3	22	32
4	26	38
5	30	45

Actual Number of Bedrooms: _____
 Minimum Normal Operating Exhaust Capacity Req'd: _____ l/s
 Maximum Normal Operating Exhaust Capacity Permitted: _____ l/s
Note: You may wish to design the (NOEC) to include capacity for future basement development. If there are more than 5 bedrooms you are required to design to CAN/CSA F326-M.

PRINCIPAL EXHAUST FAN(S)					
FAN #	Sone	Location of Inlet	Normal Operating Exhaust Capacity (L/S) NOEC	Maximum Operating Exhaust Capacity of 2 speed fan (L/S) MOEC	External Static Pressure of Fan for capacity ratings
Total (NOEC)				Total (MOEC)	

SUPPLEMENTAL & OTHER MECHANICAL EXHAUST FAN(S)			
FAN #	Sone	Location of Inlet	CAPACITY (L/S) (Actual)

All Ducts (Supply, Exhaust, and Make-Up Air) shall be sized according to Article 9.32.3.11

Grease filters are required on all range hoods, range top fans and all exhaust intakes located within 3m horizontally of a range.

Principal ventilation fans are required to have a maximum sone rating of 2.0

If more than one fan is used to provide the required normal operating exhaust capacity, such fans shall be controlled by one switch.

(A dryer is required to be included as a mechanical exhaust fan)

Outdoor intake and exhaust openings shall comply with article 9.32.3.13. If a fan is used in conjunction with outdoor air it must be approved by the manufacturer for untempered outdoor air and continuous operation.

Make-up air is required for all mechanical exhaust fans that are not part of the principal exhaust system where fuel-fired space or water-heating appliances are other than direct-vented or mechanically vented types, or where soil gas is deemed to be a problem and no provisions have been made for active gas mitigation (Exception may apply if a spillage test is conducted). If a fan is used in conjunction with outdoor air, it must be approved by the manufacturer for untempered outdoor air and continuous operation.

Note: Make-up air fans will be required for all exhaust fans in excess of 75 l/s until further notice.

OUTDOOR MAKE-UP AIR FAN(S)				
FAN #	Sone	Outdoor air supplied to room	CAPACITY (L/S)	Pre-heat outdoor air (Y/N)