

BUILDER		LOCATION	
Name _____		Address _____	
Address _____		Ventilation Contractor (If known)	
Normal Operating Exhaust Capacity Range of Principal Exhaust Fan		Name _____	
Minimum of Range (See back) _____ l/s	01 _____	Maximum of Range (See back) _____ l/s	02 _____
Address _____		Address _____	
Actual Normal Operating Exhaust Capacity (NOEC) of Principal Exhaust Fan		SYSTEM DESIGN	
Actual NOEC (See back) _____ l/s		03 <input type="checkbox"/> 1. Exhaust fans with outdoor air supply to forced air furnace return (Two speed principal exhaust fan)	
Confirm that line 03 >= line 01 and <= line 02 Y <input type="radio"/> N <input type="radio"/>		04 <input type="checkbox"/> 2. Exhaust fans with outdoor air supply fan to forced air furnace return (Two speed principal exhaust fan)	
Two Speed Principal Exhaust Fan			
(See back) Maximum Operating Exhaust Capacity (MOEC) = _____ l/s	05 _____		
High speed of 2 speed fan check = 2.5 x (line 01) = _____ l/s	06 _____		
Line 05 - Line 06 = _____ l/s	07 _____		
Line 06 - Line 02 = _____ l/s	08 _____		
Untempered Outdoor Air to Return Side of Furnace		Kitchen exhaust supplementary exhaust fan	
(See back) Maximum Permitted Outdoor Air Supply (MPOAS) = _____ l/s	09 _____	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 = _____ l/s	
Line 03 - Line 09 = _____ l/s	10 _____		
If line 10 >0 tempering of outdoor air is required prior to introducing it to the return air plenum of the furnace or the system must be designed under F326.		Bathroom exhaust inlet is not part of Principal Exhaust	
Outdoor Air Supply		Minimum capacity for separate exhaust fan for each bathroom = 25 l/s Bathroom exhaust supplementary fan capacity = _____ l/s per room	
Are there one or more fuel fired space and water-heating units (not including solid-fuel burning appliances) of other than direct-vented or mechanically vented. Y <input type="radio"/> N <input type="radio"/>	11 _____	Controls (see the NBC for other requirements)	
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"/>	12 _____	1. A switch marked 'VENTILATION FAN' is required in the living area.	
If either line 11 or line 12 is 'Y' then a make-up air fan is required for and must be interconnected with each exhaust fan so that the make-up air is provided within 10% of the air being exhausted from the exhaust fan unless a spillage test is performed conforming to CAN/CGSB-51.71 and the results of the tests conform with Article 9.32.3.8.9 of the 2005 National Building Code. The make-up air must be tempered or supplied to a space that is not habitable. This information is required to be shown in the chart on the back of this form. Note: Make-up air is also required for the principal exhaust fan if line 08 > 0.		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.	
		3. If more than one fan is used for the Principle exhaust system they must be interconnected	
		4. The Principal Exhaust Fan must be interconnected with the make-up air fan and the furnace as applicable.	
		Combustion Air	
		For indirect vented appliances and solid fuel burning appliances indicate if Combustion air? Y <input type="radio"/> N <input type="radio"/> n/a <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)

(S1 OR S2) 2 Speed

Revised 04/06/2010

Normal Operating Exhaust Capacity 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
Total (NOEC)				
Outdoor Air Supply (OAS) For Principal Exhaust Fan(s)				Total (MOEC)

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.

Confirm OAS = NOEC (Y) (N)

COMPLETE THIS SECTION IF YOU DO NOT HAVE AN HRV AS PART OF THE PRINCIPAL VENTILATION WHERE OUTDOOR AIR IS PROVIDED TO THE RETURN SIDE OF THE FURNACE

MAXIMUM PERMITTED OUTDOOR AIR SUPPLY (MPOAS) (L/S)					
Label 1	Label 2	5degC	10degC	12degC	15degC
	0	0	0	0	0
100	30	21	17	12	12
200	60	42	35	25	25
300	90	63	53	37	37
400	120	84	70	49	49

The outdoor air supply duct connected to the return air plenum of the furnace is to be sized to provide an outdoor air supply within 10% of the NOEC. A manual damper is required in the duct and measurements are required to be done by the installer to verify the air flow and permanently set the damper. See Article 9.32.3.10)

Outdoor air must be tempered where an HRV is not used and one of the following conditions exist:
 1. The calculated mixed air temperature at the furnace exceeds that permitted by the manufacturer.
 2. Outdoor air is supplied directly to habitable spaces.

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.

Label 1 - Furnace Air Flow (Low Speed) L/S
 Label 2 - Minimum Recommended Mixed Air Temperature for Furnace by manufacturer.

NOEC must be <= MPOAS or tempering of air is required

<= means less than or equal to
 NOEC means Normal Operating Exhaust Capacity
 MPOAS means Maximum Permitted Outdoor Air Supply

Enter data for the following: Label 1 _____ l/s Label 2 _____ deg C NOEC _____ l/s MPOAS _____ l/s

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.

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

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

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