RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

For systems serving one dwelling unit and conforming to the Ontario Building Code

This form is for convenience only, West Grey shall not be responsible for errors or omissions alleged to be the result of the use of this form.

| COMBUSTION APPLIANCES | | 9.32.3.1.(1) | SUPPLEMEN | TAL VENT | ILATION CAP | ACITY | 9.32.3.5 |
|-----------------------------------|-------------------------|--------------|-----------------|--------------|--------------------------|--------------|----------------|
| A) Direct vent (sealed comb | oustion) only | | Total Ventila | ation Capa | city | | cfm |
| B) Positive venting induced | draft to dedicated | | | | _ | | _ |
| sealed vent (except | | | Less Principa | al Ventilati | on | | cfm |
| C) Natural draft, B-vent or in | • | nlace | Capacity | | _ | | _ - |
| D) Solid Fuel (Including fire | | place | Required Su | nnlement | al | | cfm |
| | • | | · · | | - | | |
| E) No Combustion Appliance | es | | Ventilation (| Lapacity | | | |
| LIEATING SYSTEMA | | | DDINGIDAL | EVALUET. | - FANL CADA | 21777 | |
| HEATING SYSTEM | | 1.4. | | | FAN CAPA | -IIY | |
| Forced Air | Non Force | d Air | Make & Mo | del: | | | |
| Electric Space Heat | | | | | | | |
| | | | Location: | | _ | | _ |
| HOUSE TYPE | | 9.32.3.1.(2) | Sone Rating | : | | HVI A | pproved |
| I) Type A) or B) appliances | only, no solid fuel | | *** See ove | r for more | information ³ | ** | |
| II) Type I) except with solid fue | el (including fireplace | s) | | | | | |
| III) Any Type C) appliance | | | SUPPLEME | NTAL FAN | NS (Make & | Model) | 9.32.3.5 |
| IV) Type I) or II) with electri | c space heat | | LOCA | | MODEL | CFM | SONES |
| Other: Type I) or II) or IV) r | • | | | | <u> </u> | | - |
| | | | | | <u> </u> | | |
| SYSTEM DESIGN OPTIONS | | | | | | | _ |
| | Custom | | | | | | _ |
| 1) Exhaust only/ Forced Air | • | | | | | | _ |
| 2) HRV with extended Exhaust [| | | | | | | |
| 3) HRV Simplified Exhaust Conne | • | | | | | | |
| 4) HRV-Full Ducting/ Not Coup | ed to Forced Air Syst | tem | HEAT RECC | VERY VE | NTILATOR | | 9.32.3.11 |
| Part 6 Design | | | Make & Mo | odel: | | | |
| | | | | | | | |
| TOTAL VENTILATION CAPACI | TY | 9.32.3.3 (1) | | cfm high | | | cfm low |
| Basement & | @ 20 cfm | cfm | | • | _ | | _ |
| Master Bedroom | | | | % Sensibl | e Efficiency @ | อ -25° | |
| Other Bedrooms | @10 cfm | cfm | | • | , , | • | |
| | C 20 0 | | | HVI Appro | nved | | |
| Bathrooms & Kitchen | @10 cfm | cfm | | | ilation record | l is require | ad |
| | | | | | an HRV is inst | - | su . |
| | @10 efec | | | arter | ali uka 12 11121 | alleu | |
| Other Rooms | @10 cfm | cfm | LOCATION | OF INICTA | | | |
| | | | LOCATION | | LLATION | | |
| Table 9.32.3.3 | Total | cfm | Tillsonburg | | | | |
| | | | Civic Addre | ess: | | | |
| | | | | | | | |
| PRINCIPAL VENTILATION CAPAC | ITY REQUIRED | 9.32.3.4 (1) | BUILDER | | | | |
| One Bedroom (Master) | 31 cfm | | Name: | | | | |
| | | | | | | | |
| Two Bedrooms | 47 cfm | | | | | | |
| | | (Choose | | | | | |
| Three Bedrooms | 63 cfm | One) | | INSTALL | ATION CON | TRACTOR | / |
| Timee Beardonis | 05 CIIII | Offe | | | | | <i>'</i> |
| | 70 . (| | | | NER CERTIFI | | |
| Four Bedrooms | 79 cfm | | | - | y that this ve | | - |
| | | | has bee | _ | d in accordan | | |
| Table 9.32.3.4.A | | | | Building | Code. (Currei | nt Version |) |
| More than 4 - Part 6 PROP | OSED | | Name: | | | | |
| | | | Address: | | | | |
| | | | | | | | |
| | | | City: | | | | |
| | | | Phone: | | | | |
| | | | Signature: | | | | |
| | | | " | | Data | | |
| | | | HRAI No. | | Date: | | |

Table 3.32.3.4.B Forming Part Sentence 9.32.3.4.(9)

| PRINCIPAL EXHAUST DUCT SIZE | | | | | |
|-----------------------------|---------------------------------|---------------|-------------------------------|---------------|--|
| | Minimum Exhaust Duct Diameter | | | | |
| Number of | Ducts Connected to Inlet and | | Ducts Connected to One Side | | |
| Bedrooms in | Outlet of Principal Exhaust Fan | | Only of Principal Exhaust Fan | | |
| Dwelling Unit | Smooth Duct, | Flexible Duct | Smooth Duct, | Flexible Duct | |
| | mm (in) | mm (in) | mm (in) | mm (in) | |
| 1 | 100 (4") | 125 (5") | 100 (4") | 125 (5") | |
| 2 | 125 (5") | 150 (6") | 125 (5") | 150 (6") | |
| 3 | 125 (5") | 150 (6") | 150 (6") | 175 (7") | |
| 4 | 150 (6") | 175 (7") | 150 (6") | 176 (7") | |
| More than 4 | Part 6 Design | Part 6 Design | Part 6 Design | Part 6 Design | |

Table 9.32.3.5 Forming Part of Sentence 9.32.3.5.(4)

| Kitchen, Bathroom and Water Closet Room Exhaust Duct Size | | | | | |
|---|-------------------------------|-----------------------------|--|--|--|
| | Minimum Exhaust Duct Diameter | | | | |
| Fan Capacity | Ducts Connected to Inlet & | Ducts Connected to One Side | | | |
| cfm | Outlet of Exhaust Fan, | Only of Exhaust Fan | | | |
| | mm (in) | mm (in) | | | |
| 53 | 125 (5") | 125 (5") | | | |
| 106 | 150 (6") | 150 (6") | | | |

Note to Table 9.32.3(5):

Exhaust jacks & grills must NOT be smaller than the required size of the ducts they are attached to as required in Sentence 9.32.3.12(14)

Table 9.32.3.9 Forming Part of Sentence 9.32.3.9 (4)

| Fan Sound Rating | | | | |
|--|------------------------------------|----------------------------|--|--|
| Fan Application | Maximum Sound Ratings, sones | | | |
| | Rated according to CAN/CSA -C260-M | Rated according to HVI 915 | | |
| Principal Exhaust | 2.5 | 2.5 | | |
| Supplemental exhaust fans installed | | | | |
| in bathrooms and water closet rooms | 2.5 | 3.5 | | |
| and their make-up air fans | | | | |
| Supplemental exhaust fans installed | No rating required | no rating required | | |
| in kitchens and their make-up air fans | | | | |

Table 9.32.3.10.BForming Part of Sentence 9.32.3.10.(10)

| Equivalent Duct Size | | | | | |
|----------------------|---|----------------------|---------------------|----------------------|--|
| Required Round Duct | Permitted Equivalent Rectangular Duct Size, mm (in) | | | | |
| Size mm (in) | Stack Duct | 100 mm (4") Depth | 125 mm (5") Depth | 150 mm (6") Depth | |
| 75 (3") | 82 x 250 (3 ¼ x 10") | 57 x 100 (2 ¼ x 4") | | | |
| 100 (4") | 82 x 250 (3 ¼ x 10") | 89 x 100 (3 ½ x 4") | 75 x 125 (3" x 5") | 75 x 150 (3" x 6") | |
| 125 (5") | 82 x 250 (3 ¼ x 10") | 125 x 100 (5" x 4") | 100 x 125 (3" x 5") | 85 x 150 (3 ½" x 6") | |
| 150 (6") | 82 x 300 (3 ½ x 12") | 200 x 100 (8" x 4") | 150 x 125 (6" x 5") | 125 x 150 (5" x 6") | |
| 175 (7") | 82 x 350 (3 ¼ x 14") | 275 x 100 (11" x 4") | 200 x 125 (8" x 5") | 175 x 150 (7" x 6") | |
| More than 175 (7") | Part 6 Design | Part 6 Design | Part 6 Design | Part 6 Design | |

9.32.3.8(2) Where a solid fuel-fired combustion appliance is installed, the ventilation system shall include a heat recovery ventilator that is designed to operate so that the flow of exhaust air does not exceed the flow of intake air in any operating mode, and that complies with the requirements of Article 9.32.3.11.

¹⁾ Where flexible duct is used, the duct diameter shall be increased by 25mm (1 in.)