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2021 Mechanical Ventilation Calculation Form

This form is to be filled out to indicate compliance with the International Residential Code (IRC) Section M1505. This form shall be left onsite at the time of the mechanical rough-in inspection.

Mechanical permit # _____ **Address** _____

1) System Design per IRC; M1505.4.1:

☐ Exhaust Only ☐ Supply Only ☐ Combination System

2) Mechanical Ventilation Rate per IRC; M1505.4.3:

☐ Option 1: Based on IRC; Table M1505.4.3(1)

Floor Area: _____ sq.ft. Number of Bedrooms: _____ Ventilation Rate = _____ **CFM**

☐ Option 2: Based upon IRC; M1505.4.3 Equation 15-1

Ventilation Rate =
(0.01 x total square foot area of house _____) + [7.5 x (number of bedrooms _____ + 1)] =
_____ **CFM**

The whole-house mechanical ventilation system is permitted to operate intermittently where the system has controls that enable operation for not less than 25% for each 4-hour segment if the ventilation rate is multiplied by the factor determined in accordance with Table M1505.4.3(2).

Run time: _____ % Adjustment factor = _____ x _____ CFM = _____ **CFM**

3) Ventilation Rate Credit per IRC; M1505.4.3 Exception:

☐ A ducted system supplies ventilation air directly to each bedroom and to one or more of the following rooms: Living Room, Dining Room or Kitchen. The whole house ventilation system is a balanced ventilation system.

Ventilation Rate = _____ CFM x 0.7 = _____ **CFM**

Total Design Ventilation Rate = _____ CFM