

Whole-House Mechanical Ventilation Worksheet

And Other Important Compliance Information for

Single Family Residences/Townhouses

2015 MRC effective February 8th 2016

To facilitate Permit issuance and Energy Code Compliance in accordance with the 2015 Michigan Residential Code, please complete this form and keep a copy posted on the jobsite kitchen window. By signing below (**required**), you are certifying that this system is installed and tested to meet the checklist as completed. The ventilation details are required to be on the heat plan.

Project address: _____ Signature of the Permit Holder: _____

1. Mechanical Ventilation- Section M-1507

- a. **System design-M-1507.3.1** The whole-house ventilation system shall consist of one or more of the following:
- One or more supply fans
 - Or one or more exhaust fans
 - Or a combination of such, and associated ducts and controls.
 - Local exhaust or supply fans are permitted to serve as such a system.
 - Outdoor air ducts connected to the return side of an air handler (ECM Motor required) shall be considered as providing supply ventilation.
- b. **System controls-M-1507.3.2** The whole-house mechanical ventilation system shall be provided with controls that enable manual override. Please specify on the heat plan.
- c. **Mechanical ventilation rate-M-1507.3.3** The whole-house mechanical ventilation system shall provide outdoor air at a continuous rate of not less than that determined in accordance with **Table M1507.3.3 (1)**.
***Exception:** The whole-house mechanical ventilation system is permitted to operate intermittently where the system has controls that enable operation for not less than 25 percent of each 4-hour segment and the ventilation rate prescribed in Table M1507.3.3 (1), (see below) is multiplied by the factor determined in accordance with Table M1507.3.3 (2) (see below).

Table M1507.3.3 (1)

CONTINUOUS WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM AIRFLOW RATE REQUIREMENTS

DWELLING UNIT FLOOR AREA (square feet)	NUMBER OF BEDROOMS				
	0-1	2-3	4-5	6-7	>7
	Airflow in CFM				
>1,500	30	45	60	75	90
1,501-3,000	45	60	75	90	105
3,001-4,500	60	75	90	105	120
4,501-6,000	75	90	105	120	135
6,001-7,500	60	105	120	135	150
>7,500	105	120	135	150	165

Table M1057.3.3 (2)

INTERMITTENT WHOLE-HOUSE MECHANICAL VENTILATION RATE FACTORS ^{a,b}

RUN TIME PERCENTAGE IN EACH 4 hour SEGMENT	25%	33%	60%	66%	75%	100%
FACTOR ^a	4	3	2	1.5	1.3	1.0

- For ventilation system run time values between those given, the factors are permitted to be determined by interpolation
- Extrapolation beyond the table is prohibited

