ASHRAE 62.2-2013 Whole Building Ventilation Calculations New and Existing Homes Clear Entries Basic Building Data Select State or Province Select City **Enter Square footage Enter** # of Bedrooms Select # of Floors **Infiltration Credit** Start Finish Enter Blower Door CFM₅₀ Appendix A Existing Building Calculations Kitchen Start Finish Window? **Enter Fan CFM** Bath 1 Window? **Enter Fan CFM** Bath 2 Is there a 2nd Bath? Window **Enter Fan CFM** Bath 3 Is there a 3rd Bath? Window **Enter Fan CFM** Ventilation "Deficit" CFM **Finish** Start Exist. Adjusted Whole Bldg CFM #N/A #N/A #N/A #N/A New Bldg Whole Bldg CFM (Note for new homes Local Exhaust ventilation must be added) ACH₅₀ No CFM50 No CFM50

No CFM50

#N/A

ACHNatural

Calculated "N" Factor

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No CFM50

3.16513 Paul Raymer

About this sheet

This sheet is designed to determine the volume of airflow required to meet the ASHRAE 62.2-2013 whole building ventilation requirement.

There is a tab at the bottom of the page that links to a Report Sheet that can be completed and signed to document the system.

The "Exist. Adjusted Whole Bldg CFM" cells display the ventilation requirements for existing buildings adjusted for existing fans, windows and infiltration credit.

The "Whole Bldg CFM (New Bldg)" displays the CFM required for new buildings, adjusted with the infiltration credit. Note that for new buildings, local exhaust ventilation must also be installed.

It displays required ventilation when the building is tightened, calculates the ACH_{50} , $ACH_{natural}$, calculates the 'N' factor, and

the Target CFM₅₀ for .35 ACH_{natural}. Ceiling height assumed to be 8 feet.

Note that the "N" factors are based on ASHRAE's TMY 3 weather data, and the number of stories of the building.

If Macros are active, select "Clear Entries" to clear all the entry fields.

Using the Sheet

Select the closest State or Province.

Select the closest Weather Station.

Enter the square footage of the house.

Enter the number of bedrooms.

Select the number of floors.

Enter the Blower Door CFM₅₀ (if it is known) in the "Start" cell.

Existing Building Adjustment

NOTE: Calculations assume that if there is no entry for a window or fan in the kitchen, the Existing building calculations are not being used.

The "Finish" column allows you to adjust the fan sizes to achieve a '0' cfm deficit.

Select "Yes" or "No" for a window in the kitchen.

Enter the measured fan CFM in the kitchen.

Select "Yes" or "No" for a window in the bathroom.

Enter the measured fan CFM in the bathroom.

Select "Yes" or "No" for second bathroom, etc.

Note that for intermittent control, click the Intermittent Control tab.

Click on the Report Conrtol tab for a printable report version of the data.