

# Nevada Weatherization Assistance Program

## BLOWER DOOR DATA SHEET

### Instructions

The Blower Door Data Sheet must be filled out completely beginning with the clients name, phone and address.

#### Shell Leakage Target

The shell leakage target number (Minimum Ventilation Requirements) will be based on the number of listed occupants and the number of bedrooms of the residence. The MVR chart is found in Appendix D in the NHD WAP Field Manual. If an energy audit program is used to determine MVR, then the calculated number will be the target for shell sealing.

#### Economic Stop Parameters

The heating fuel type refers to the gas or electricity used to heat the residence. Cooling only applies to air conditioning, whether it is central or room units. Evaporative cooling is not recognized as electric cooling. The duct and shell targets are the number of CFM50 per (1) man hour which must be attained to continue working to seal that respective area, and are found in Appendix C in the Field Manual.

#### Initial Blower Door Readings

The initial reading is taken before any sealing work is performed on a residence. The date, fan configuration, temperature and wind conditions must be noted when these readings are taken. If no catastrophic sealing is necessary and ESP sealing is begun, the readings become the pre-test readings and should be transferred to that space on the form.

#### Final Blower Door Readings

The final reading is taken after all sealing work is performed on a residence.

#### Catastrophic Sealing Measures

If major repairs requiring more than 4 man/hours of work (i.e., window replacement, doors ceiling replacement) are needed, this work should be performed prior to setting up a blower door to do ESP sealing. A brief description of the catastrophic work performed must be noted respective to duct or shell.

**Note:** If a whole floor return was abandoned and a ducted return installed, the abandoned floor registers must be sealed before starting ESP work

#### Pre ESP Blower Door Reading

The pre – test reading is taken after any catastrophic sealing work is performed and becomes the starting point for determining the economic feasibility of continuing to work on a residence. Again, the date, fan configuration, temperature and wind conditions must be noted when these readings are taken. If catastrophic sealing was done then subtract the respective ESP blower door reading from the Initial blower door readings and write the difference in the reduction space for the respective measures.

#### Duct & Shell Sealing Measures

Beginning with duct sealing, each man hour's worth of work should be checked with a blower door reading to determine the economic feasibility of continuing to seal. A description of the work that was done during that hours work must be noted in the space available. The first reading is subtracted from the starting total CFM50 with the difference being the reduction for that man hour. Each successive man hours reading is subtracted from the previous with the difference becoming the reduction for that hours work. When you fail to attain the target CFM50 reduction in an hour, work ceases on duct sealing and you begin shell sealing (if applicable) using the same procedure until you can not attain the target CFM50 shell reduction.

#### Total CFM50 Reductions

The final Shell and Duct Reduction readings will be subtracted from the initial Blower Door readings