



State of Ohio
Weatherization Program
Standards

Section **DIAGNOSTIC TESTING
METHODS**

Subject **Room-to-Room
Pressure Balancing**

AIR HANDLER PRESSURE BALANCE TESTING

1506-7.1

- Set house up in winter operating mode (blower door testing configuration). **winter operating mode**
1506-7.1
- Run a hose to the exterior of the building. Run a hose to the combustion appliance zone. **hose locations**
1506-7.1a
- Set up a magnahelic gauge zeroed at 30 Pa or a digital pressure gauge in the main body of the house. **zero gauge**
1506-7.1b
- Turn on the air handler and take three pressure readings: **take pressure readings**
1506-7.1c
- i. House with WRT the outside
 - ii. House WRT the CAZ
 - iii. CAZ WRT the outside
- Close all interior doors. **close interior doors**
1506-7.1d
- Repeat pressure measurements. **repeat measurements**
1506-7.1e
- i. House WRT outside
 - ii. House WRT CAZ
 - iii. CAZ WRT outside.
- Take the pressure gauge, being careful to level and zero on 30 Pa when using a magnahelic gauge, and measure the pressure difference across all interior doors. Pressure test and record measurements for all rooms WRT the main body of the house. **measure differences**
1506-7.1f
- Take action if room pressure readings exceed ± 4 Pa or the CAZ WRT the outside exceeds -5 Pa. **action needed**
1506-7.1g

*MOBILE HOME BELLY RETURN CONVERSION 1506-7.2***add door grill**
1506-7.2a

Add a grill at least the size of the existing opening in the furnace cabinet door to the furnace closet door.

block floor registers
1506-7.2b

Block all floor return registers with a positive air barrier being careful to find hidden registers under built-ins, behind furniture, and in the kitchen. Completely block all floor openings in the furnace closet using a fire retardant air barrier being careful to not seal the combustion air inlet.

test grill size
1506-7.2c

Set up and zero a pressure differential gauge measuring the furnace closet WRT the outside. Activate the furnace fan and take a reading. A reading of greater than -10Pa indicates additional grill area needs to be added to the furnace closet.

test rooms
1506-7.2d

Close all interior doors. Measure the pressure difference across all interior doors. Pressure test and record measurements for all rooms WRT the main body of the house.

action needed
1506-7.2e

Action needs to be taken if the room pressure readings exceed ± 4 Pa or the furnace closet WRT the outside exceeds -10 Pa.