ND WX DIAGNOSTIC FIELD FORM

NORTH DAKOTA DEPARTMENT OF COMMERCE
DIVISION OF COMMUNITY SERVICES
SFN 59251 (5/20)

Name	Job#	Date

BLOWER DOOR TEST DATA & BLOWER DOOR GUIDED AIR SEALING (WCEG)

Test Conditions:	Baseline Pressure: Pa	Door Opening Used:

Test	**CFM_{50}**		**CEG/100 CFM_{50} = $**		
Initial Test		No. in Crew	Minutes	CFM_{50} Reduction	Cost per 100 CFM_{50}
Test 1					
Test 2					
Test 3					
Test 4					
Test 5					
Final Test					

ZONAL PRESSURE TESTING

House at -50 pa	Test 1	Test 2	Zone	Test 1	Test 2
Zone			Before Hole		
Zone			CFM50		
Zone			House to Zone Pressure	H/Z or Z/O	H/Z or Z/O
Zone			After Hole		
Zone			CFM50		
REFRIGERATOR			House to Zone Pressure		
Brand			CFM50 Difference		
Model #			Maximum Reduction		
KWH			Square Inches		

DUCTWORK LEAKAGE/AIR HANDLER ASSESSMENT

Room-to-Room Pressure Testing						**Duct Leakage to Outdoors** (Test at 25 Pascals Positive)		
#	Room	Test	#	Room	Test		Test 1	Test 2
1			5			Test Pressure	Pa	Pa
2			6			Flow Ring Used (circle one)	Open, 1, 2, 3	Open, 1, 2, 3
3			7			Fan Pressure	Pa	Pa
4			8			Fan Flow (leakage to outdoors)	CFM	CFM
House to Outside Pressure:						Inches^2 Leakage to Outdoors	in^2	in^2
If a room is more than 3 Pascals different from main body of house, relieve pressure.						CFM Leakage as Percentage of Conditioned Floor Area	%	%

PRESSURE PAN TESTING AND LEAKAGE ASSESSMENT

#	Room		Test 1		Test 2	#	Room		Test 1		Test 2
1						8					
2						9					
3						10					
4						11					
5						12					
6						13					
7						14					

Pressure Pan Totals

Pre	Post

Comments:

ASHRAE DOCUMENTATION					
Exhaust Fan	CFM	Window	Instructed Client on Ventilation Usage	Yes	No
Kitchen			Ventilation Added	Yes	No
Bath 1			Fan Run Time Min/Hour		
Bath 2			Switch Labeled	Yes	No
Bath 3			CO Alarms Installed	Yes	No
Bath 4			Dryer Vented Out	Yes	No
Other			Comments:		
Required Mechanical Ventilation Rate(RMVR)					
Measured CFM of Whole House Ventilation Fan					

Mobile Homes

1. If belly return, convert it to a living space return system.
2. Inspect the duct work visually and then seal all penetrations in the duct trunk line, boots, the ends of the duct runs and furnace plenum if accessible from the interior.
3. When the above duct sealing work is completed conduct a pressure pan test on all duct registers.
4. If the sum of the pressure pan readings is an average of 1 or less and all penetrations in the duct trunk line (boots, end of trunk line, visible penetrations) are sealed, the task may be considered acceptable. If pressure pan readings of 1 pa on average is unachievable, there must be good documentation on why duct work is left as is.
5. The duct blaster may also be used to test the duct work. If this procedure is used, the task may be considered complete if the cfm leakage to the outside (measured at 25 pa) is less than 10% of the total floor space. (Example: if a mobile home is 14X66, the area is 924 sq. ft. The duct blaster reading must be less than 10% of the floor area of 924, or 92.4 cfm). If the duct blaster reading is above 10%, good documentation must be provided as to why duct work was left as is.
6. The ideal leakage is 0 pa and 0 cfm leakage to the outside. The above is only the acceptable limits. We should strive to reduce all leakage as much as possible.

Site-Built Homes, Including Manufactured Housing

1. For ducts located in unconditioned spaces:

   Try to convert or alter space so that it is conditioned. If it cannot be converted, repair, seal, and insulate ducts to at least R-8. (where accessible).
2. For ducts located in conditioned spaces:
   a. Always repair disconnected ducts.
   b. Preferred to seal and insulate space envelope rather than ducts.

Blower Door and Infrared Scan

1. Blower door testing along with infrared scan must be done on every home.

ASHRAE

1. If RMVR is less than or equal to 15 cfm, additional ventilation is not required.
2. Window must be operable for ASHRAE credit.

(Refer to ND Standard Work Specifications and Field Guide for additional details)

Signed	Date