The New HERS Field Inspector Designation



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Southface Energy Institute
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RESNET Conference



What Does a Field Analyst Need to know?









Performance Testing







Component Assessment DROF 1211480 0.35 0.34 Responsible Solutions for Environmental Living

8'-6'



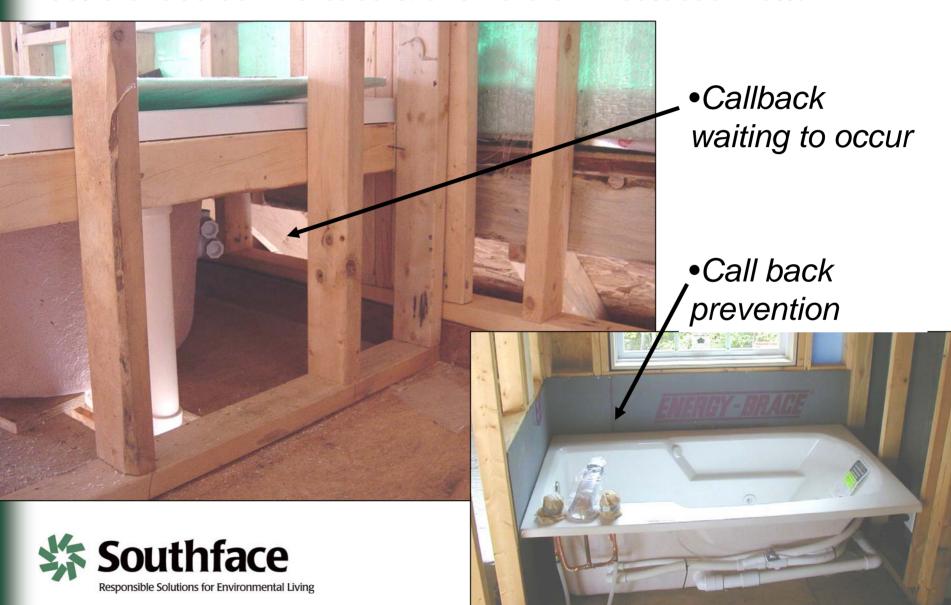
Thermal Bypass Checklist





Thermal Bypass Blocking & Sheathing

Solid sheet behind tubs & showers on insulated walls



Does a Field Analyst Need to know:

 A flow equation, Q, can be written as follows:

$$Q = C \times \Delta P^n$$

 The HERS Reference home determines Vertical fenestration area (A_F) for one and two family detached homes by:

$$A_F = 0.18 \times A_F \times F_A$$

Answer: Probably Not





RESNET Requirements for Field Inspectors

- Completion of training by Accredited Training Provider
- Candidate may apply to opt out of training via challenge test
- 3. Candidate must pass RESNET National Rating Field Inspector Test
- 4. After training and/or test, must complete three probation inspections under direct supervision of certified rater



3 Day Pilot Training

- August 2004
- February 2006- POSTPONED

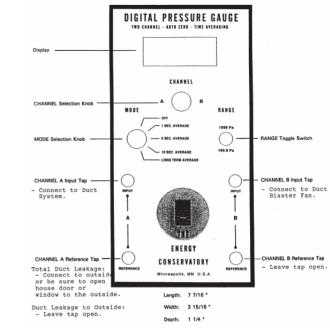


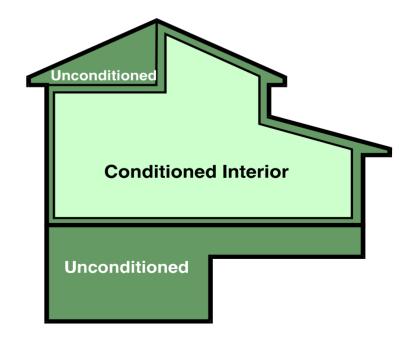




<u>Day 1</u>

- Overview of HERS industry and ENERGY STAR®
- House as a System
- Building Components
- Pressure & Diagnostics







Day 1 (Cont)

- Theory of Pressure Testing
- Calculating Areas and Volumes
- Determining Infiltration: ACH $_{50}$ and ACH $_{nat}$ and ELR (CFM $_{50}$ / envelope area)
- Testing Protocol for House Depressurization
- Blower Door Testing (in field)

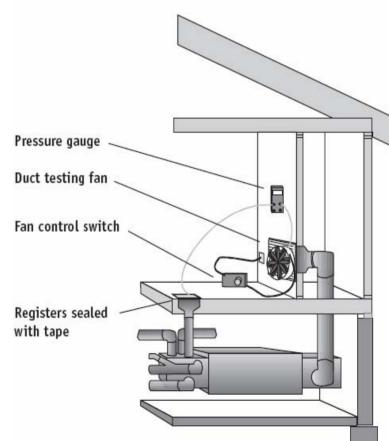




<u>Day 2</u>

- Building Components Cont.
- Heating & Cooling Equipment
- Ventilation & IAQ
- Fundamentals of Duct Pressure Testing
- Protocol for Duct/House Pressurization
- Software demo
- Duct Blast & Blower Door (in field)







<u>Day 3</u>

- Review Blower Door & Duct Blaster Testing
- Pre-sheetrock Walk Through (in field)
- Field Analyst Examinations







Why Train Inspectors? Why Inspect Every Home?





Southface Energy Institute

- Southface showcase energy efficiency and sustainability
- EarthCraft House green-building program of Greater Atlanta HBA
- www.southface.org





