

Weatherization Works

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Building Performance Analysis



**CERTIFIED
PROFESSIONAL**



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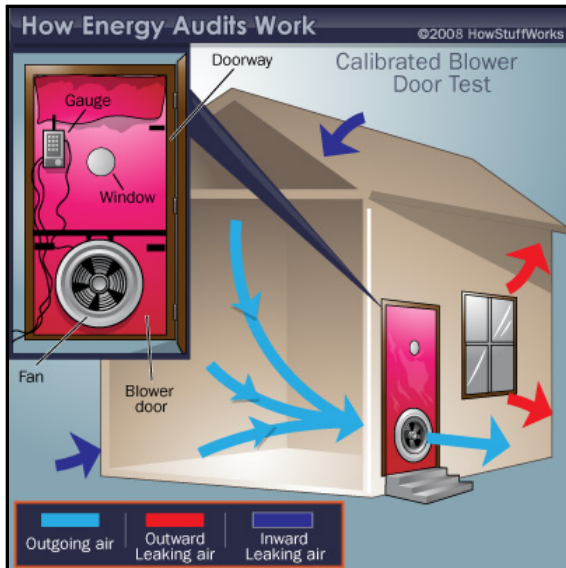
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Audit summary

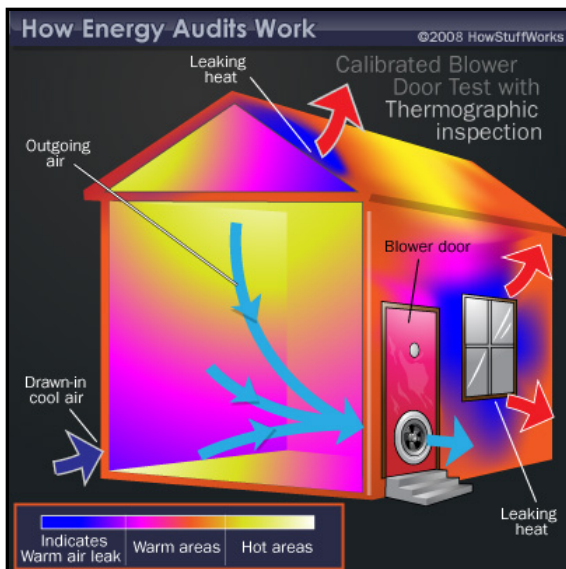
Installed Measure Summary



How an Energy Audit Works



The test attaches a fan to the outside door. The fan pulls air out of the house to lower the inside air pressure. Air from the outside flows in through any openings. While the air is being pulled out, the auditor can see where the leaks are occurring.



Thermographic inspections use infrared cameras to identify where heat is escaping from your home. The heat shows up on the camera as white, yellow and red. Sometimes this test is done together with the calibrated blowers test.



Install 3 inches of closed cell spray foam to the foundation walls full height with a thermal barrier applied to protect.

The Town Hall has a Very High Blower Door Reading of over 13000 CFM 50, the first step should be air sealing of the basement and insulation the foundation walls with 3 inches of closed cell spray foam with a thermal barrier applied to protect.



Insulate the foundation walls and install a vapor barrier under the stairs, cut back a section of drywall to access the rim joist.





Replace water heater with heat pump water heater,

The water heater should be replaced with a Heat Pump Water Heater, Heat Pump Water Heaters have a rebate from the state State along with high energy savings, the Oil supply line should be replaced with a coated copper line, and a supplied air system added to the boiler so the venting system can be sealed.



Replace the berried copper line with a coated copper supply line.





The Attic chase leads to the basement, this chase in the Clock Tower should be sealed using rigid foam and spray applied sealants, no other air sealing should be conducted in the Attic due to presents of Vermiculite berried below the cellulose insulation.



Due to Stack Effect the windows are a large area of concern with warm air being pushed through cracks and gaps, the installation of interior storm panels will reduce the losses, these interior storm panels can be removed to allow for cleaning but offer a needed air barrier, unlike the second floor shades, this type of window treatment can be ordered with UV film to protect from damaging sun light.



Cold Climate Heat Pumps offer fantastic energy efficiency and State / Utility rebates, systems like Fujitsu, Daiken and Mitsubishi all make floor mount Cold Climate indoor units that could be installed along an interior wall and piped down through the floor down into the basement, and piped to the exterior using an existing hole through the exterior brick, with a Multi-zone 36000 Btu Outdoor Unit located in the rear of the building that could supply (3) 12000 Btu Floor Mount Indoor units, Cold Climate Heat Pumps offer Heating and Cooling.