



# Energy Efficiency Infrared Report



Your Street  
Anytown, Massachusetts 00000

Date:00/00/00  
Time of Day:00:00 AM - 00:00 AM  
Exterior Temperature:32 degrees F.  
Interior Temperature:69 degrees F.  
Delta T:37 degrees F.

**OPENING COMMENTS**

Thermal (Infrared) Imaging is a technology that allows David Valley (Level 1 Thermographer) to show you things about a building that no one can show you using other inspection methods. Thermal imaging produces images of invisible heat energy emitted from objects and systems in the building and allows me to measure it. Throughout this IR report you will see varying colors that may be hard for you to understand. I utilize one of the many palettes that are available in my IR camera and this particular palette that I utilize is the IRON palette. This particular palette will display the blue and purple colors as Cold spots and the red and orange colors as Hot spots.

Thermal imaging helps to diagnose the problem rather than merely identify symptoms and can sometimes, but not always, identify and document: Electrical faults before they cause a fire, overloaded and undersized circuits, circuit breakers in need of immediate replacement, missing, damaged, and/or wet insulation, heat loss and air infiltration in walls, ceilings, floors, windows and doors, water and moisture intrusion that could lead to mold, possible pest infestation, hidden roof leaks, before they cause serious damage, air conditioner compressor leaks, under fastening and/or missing framing members, structural defects, broken seals in double pane windows, energy loss and efficiency, dangerous flue leaks, damaged and/or malfunctioning radiant heating systems, unknown plumbing leaks, and overheated equipment. These color images can then be included in your IR inspection report providing supporting documentation to the report. A picture is always worth a thousand words.

Thermography is a "heat diagram" or a visible picture using the infrared spectrum. This imaging technique is a powerful and noninvasive means of monitoring and diagnosing the condition of buildings. IR inspections can provide immediate documentation of as-built & post-restoration conditions, post-damaged material assessment, energy inefficiency, and electrical problems. Typically, moisture on building materials will evaporate and cool by as much as 39 degrees Fahrenheit. A wet spot (when observed with my infrared camera) is clearly visible as a distinct cool spot.

Report Date: 00/00/00  
Outside Weather: 25 degrees F.  
Inspector: David Valley

If you have any questions, please do not hesitate to contact me at 978-683-4984.

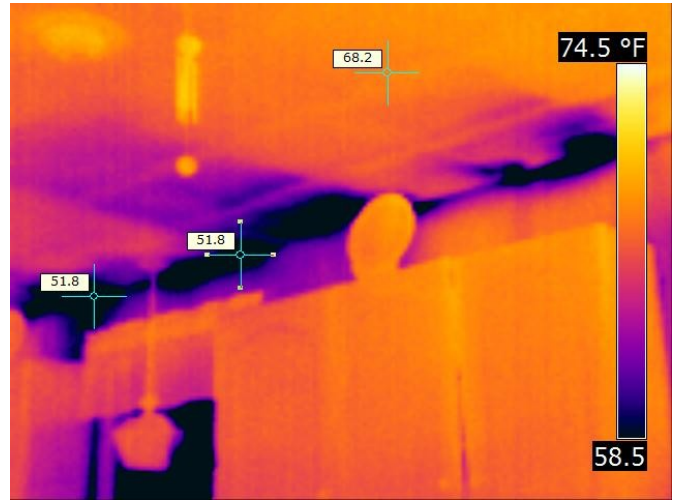
## ENERGY EFFICIENCY REPORT



Location Floor: First Floor  
 Location Room: Dining Room  
 Location Direction: Facing the rear of your house

### Observations:

Throughout this Infrared Report you are going to be viewing dark blue and purple areas which are insulation voids where cold air is infiltrating the conditioned areas of your home. It is quite evident (here) that insulation is not properly installed at this concealed structural rim joist cavity. See "Closing Comments" for recommended upgrades.



Location Floor: First Floor  
 Location Room: Kitchen  
 Location Direction: Facing the rear of your house

### Observations:

The concealed rim joist cavity (above your kitchen sink) is not properly insulated. See "Closing Comments" for recommended upgrades.

## ENERGY EFFICIENCY REPORT



Location Floor: First Floor  
 Location Room: Kitchen (Left side)  
 Location Direction: Facing the rear of your house

**Observations:**  
 This is another view of the same area that requires an insulation upgrade for thermal efficiency in this area.



Location Floor: First Floor  
 Location Room: Kitchen (at eating table)  
 Location Direction: Facing the left rear of your house

**Observations:**  
 This outer ceiling is inefficient due to improper installation of insulation in the concealed rim joist cavity. See "Closing Comments" for recommended upgrades.

## ENERGY EFFICIENCY REPORT



Location Floor: First Floor  
 Location Room: Family Room  
 Location Direction: Facing the front of your house

**Observations:**  
 The upper corner portion of this particular ceiling cavity needs an insulation upgrade. See "Closing Comments" for recommended upgrades.



Location Floor: First Floor  
 Location Room: Above Front Entry Door  
 Location Direction: Facing the front of your house

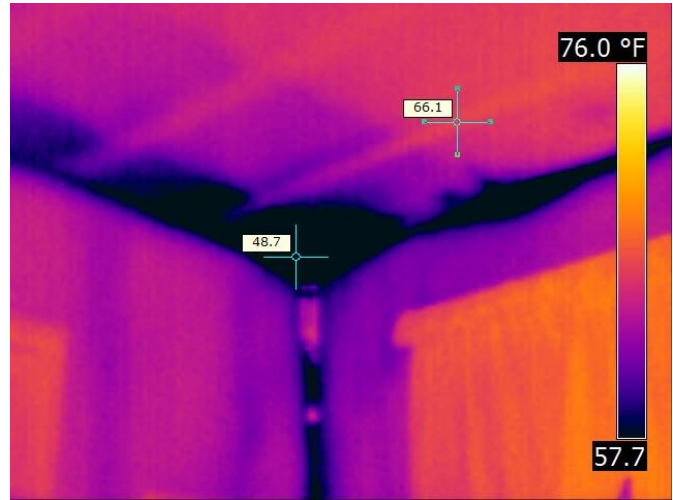
**Observations:**  
 You can clearly see (here) that excessive cold air is infiltrating your main entry area. See "Closing Comments" for recommended upgrades.

## ENERGY EFFICIENCY REPORT



Location Floor: First Floor  
 Location Room: Living Room & Main Entry  
 Location Direction: Facing the front of your house

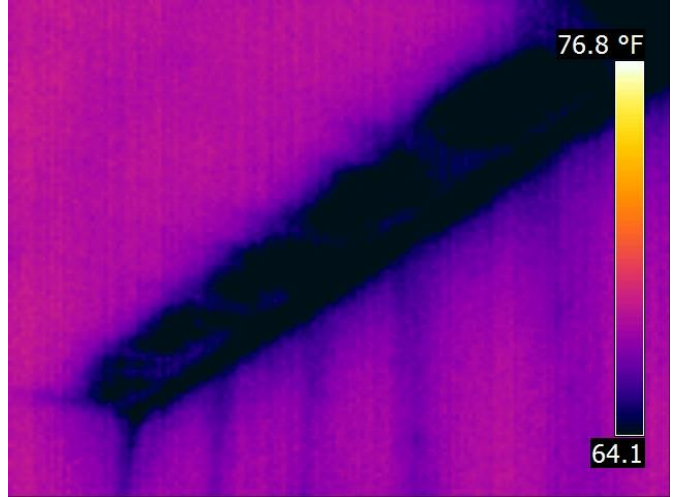
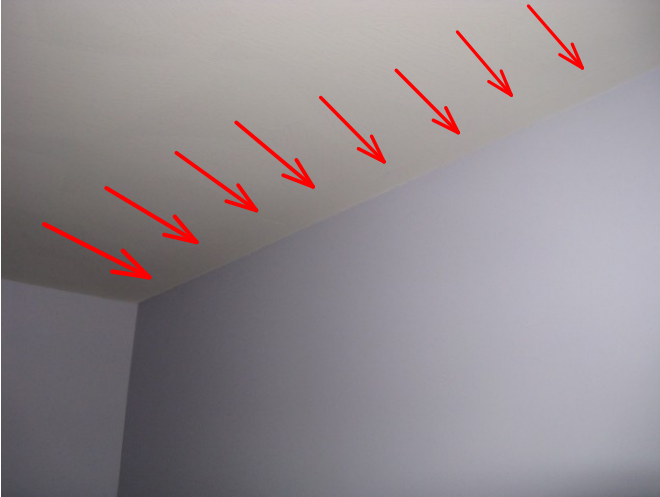
**Observations:**  
 This is another rim joist cavity that needs an insulation upgrade.



Location Floor: First Floor  
 Location Room: Living Room  
 Location Direction: Facing the left front corner of your house

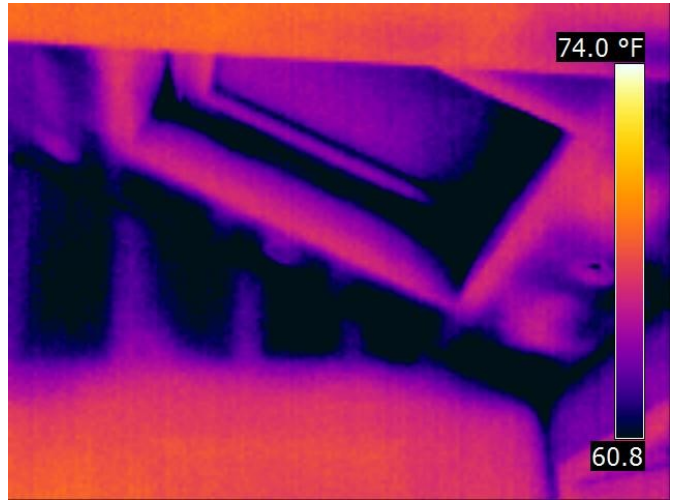
**Observations:**  
 This upper concealed ceiling cavity is allowing cold air into your living room. See "Closing Comments" for recommended upgrades.

## ENERGY EFFICIENCY REPORT



Location Floor: Second Floor  
 Location Room: Bedroom  
 Location Direction: Facing the front of your house

**Observations:**  
 This is another ceiling cavity that is allowing cold air to infiltrate your bedroom through empty ceiling joist cavities. See "Closing Comments" for recommended upgrades.



Location Floor: Second Floor  
 Location Room: Bathroom  
 Location Direction: Facing the rear of your house

**Observations:**  
 You can clearly see that the upper attic wall cavities (inside your attic) of this bathroom are not insulated at all. See "Closing Comments" for recommended upgrades.

## CLOSING COMMENTS

Hello Customer,

This area of your Infrared Report will include all my recommendations as to how to properly repair the inefficient or defective areas of your home.

Thermal imaging is a technology that allows me (David Valley - Level 1 Thermographer) to show my clients things about their home that no one can show them using other inspection methods. Thermal imaging produces images of invisible heat energy emitted from objects and systems in the home and allows me to measure it and interpret these images to my client. Thermal imaging helps to diagnose the problem rather than merely identify symptoms. The images of the issues of concern are included in this inspection report, providing supporting documentation to the report. A picture is worth a thousand words.