

# ROOF MOISTURE

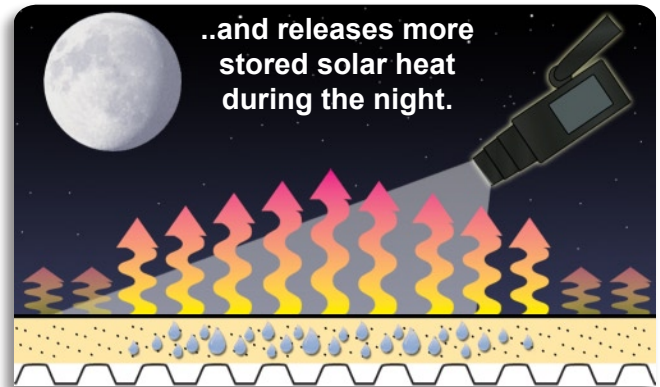
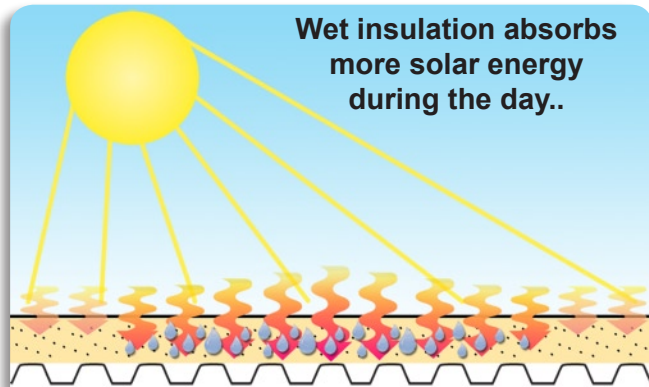
## INFRARED DETECTION & ANALYSIS Revealing Internal Roof Condition

More roofing contractors are using our infrared roof moisture testing services to boost their bottom line, reduce liability, improve bidding, and land more jobs. Our professional infrared roof testing can:

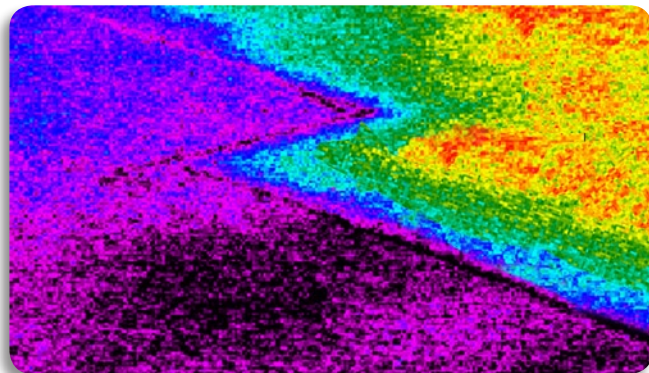
- Reduce your risk with critical information
- Document your work to avoid costly disputes
- Help build customer respect and loyalty
- Demonstrate your commitment to energy savings

### How it works..

During the daytime, wet insulation absorbs much more solar heat than dry insulation. During the night, wet roof materials release this “solar gain” as radiant heat, which is detectable with the infrared camera.



Our certified thermographers use state-of-the-art cameras to capture the “thermal signature” of the roof’s night-time heat loss. As you can see in the photos below, the infrared image pinpoints the extent of moisture damage within the roof. Our inspectors carefully mark out the damaged areas on the roof surface, eliminating hours of guesswork and costly errors for you and your crew.



Thermographic image from infrared camera



Control image, wet sections marked for removal

Infrared thermography is a proven scientific method for evaluating roof condition. Our professional infrared surveys give you the in-depth information you need to fully understand the roof condition, optimize your estimates, and provide bid-winning solutions for your customers.



**INFRARED ANALYZERS** INC  
Certified Thermographers

Nashua • Worcester • New Haven • New York • Burlington



# Infrared Roof Moisture Detection

## Wins Jobs and Builds Customer Respect and Satisfaction

### Infrared, Green Building, and the Roofing Contractor

Although “green roofs” are getting a lot of attention these days, traditional flat and low-slope roofing systems will continue to dominate the commercial roofing industry for many years to come. But roofing contractors don’t have to become gardeners in order to profitably participate in the “green building revolution”! In fact, by maintaining, repairing, and replacing the nation’s roofs, roofing contractors are already helping to improve the energy efficiency of our buildings. Unfortunately, many customers don’t appreciate this. Changing their perception of your work can be one of the keys to your success in the ‘green marketplace’.

One of the easiest and best ways to “go green” is to take advantage of innovative technologies – like our infrared roof moisture surveys – that help save energy while improving the work you already do. When you order or recommend infrared testing, you show prospective customers that you’re committed to reducing their energy costs and optimizing their building’s thermal performance. You’ll earn more respect and distinguish yourself from the competition as a contractor who is dedicated to professionalism and best practices. Meanwhile, the infrared test results will help you better understand the roof system’s true condition, which can help solve your customer’s problems and open up money-making opportunities for you.

### More Money Making and Job Winning Benefits..

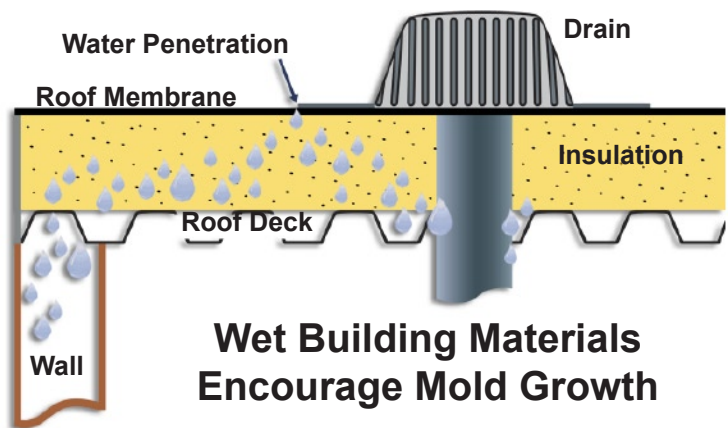
- **Pinpoint Problems for Repair Work:** In tough economic times, more customers will decide to repair their roof systems rather than opt for full replacement. When we perform an infrared roof moisture inspection, we mark all of the moisture-damaged areas directly on the roof surface. In most cases, your crew can then simply “cut along the lines”.

- **Find Leaks Faster and More Reliably:**

Infrared testing pinpoints the location and extent of water and its migration within the roof system. It provides the extra level of detail you need to help you find and fix more leaks the first time.

- **Help Prevent Mold Growth:**

Customers today are increasingly concerned about the potential health effects and legal liability of mold in their buildings. As we know, wet roofing can provide an excellent environment for the growth of mold. Water penetrating the roof can also enter the structure and create hidden mold problems in other building components, including floors, ceilings and walls. Our infrared surveys target the sites of roof moisture infiltration to help you protect your customers from mold *before* it gets started. Infrared roof moisture inspections also help reduce liability for both you and your customer by documenting your efforts to identify and prevent potential mold problems.



# Infrared Roof Moisture Detection

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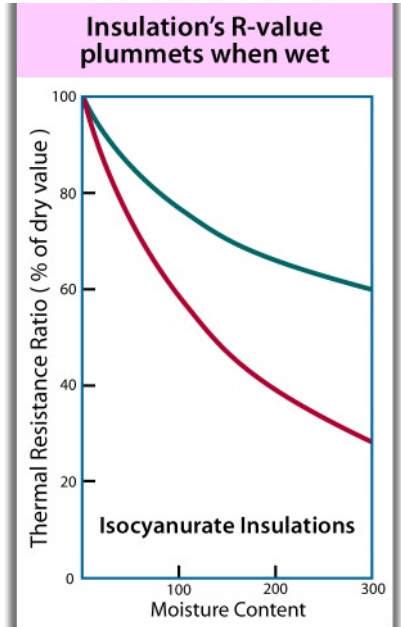
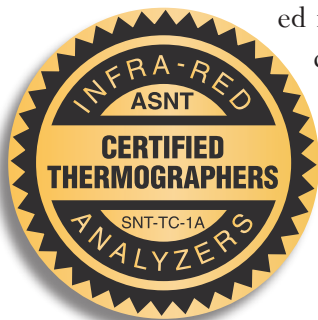
- **Reduce energy costs, shrink ‘carbon footprints’, create customer action:** Moisture in the roof’s insulation significantly reduces its insulating properties (R-value). This means higher heating and cooling costs and a larger ‘carbon footprint’ for both the building and its tenants. As energy costs climb and ‘green building’ becomes increasingly popular, more and more owners and facility managers are looking at every repair and renovation as an opportunity to reduce energy waste and save money. Infrared roof moisture surveys provide dramatic evidence of the energy being wasted by wet roofing insulation, which can be a big help in focusing the customer’s attention on the need to take action on their roof.

### About Our Reports..

Our professional testing reports lead the industry in quality, accuracy and detail. Our infrared roof inspection reporting services include:

- **Complete Roof Markout:** Included with all inspections. Our technicians mark the boundaries of moisture-damaged areas on the roof surface to guide subsequent repairs or replacement.
- **Infrared Roof Moisture Survey Report:** A full-color bound report that includes an in-depth written analysis of all findings from our visual and thermographic inspection, and can include color thermograms and control photographs of moisture-damaged areas.
- **AutoCAD® Roof Map:** We document our thermographic data with an AutoCAD® scaled drawing of the complete roof system, in both large (36" x 24") and small sizes.

**Certified Thermography:** Infra-red Analyzers is committed to the highest standards of professional thermography. You can count on our expertise to deliver the accurate, reliable information you need. Founded in 1984, we are an independent, professional consulting firm. Infra-red Analyzers’ Certified Thermographers have completed courses of study and passed examinations as specified by the American Society for Nondestructive Testing (ASNT). In addition, we provide ongoing training and support to our staff in all applications of thermographic testing.



**Ballasted and Multiple-Construction Roofs**

Because ballasted and multiple-construction roofs cannot be accurately inspected with infrared thermography, we employ nuclear moisture detection technology on these roof systems to determine their moisture content.



Accurate roof measurement insures reliable survey results.

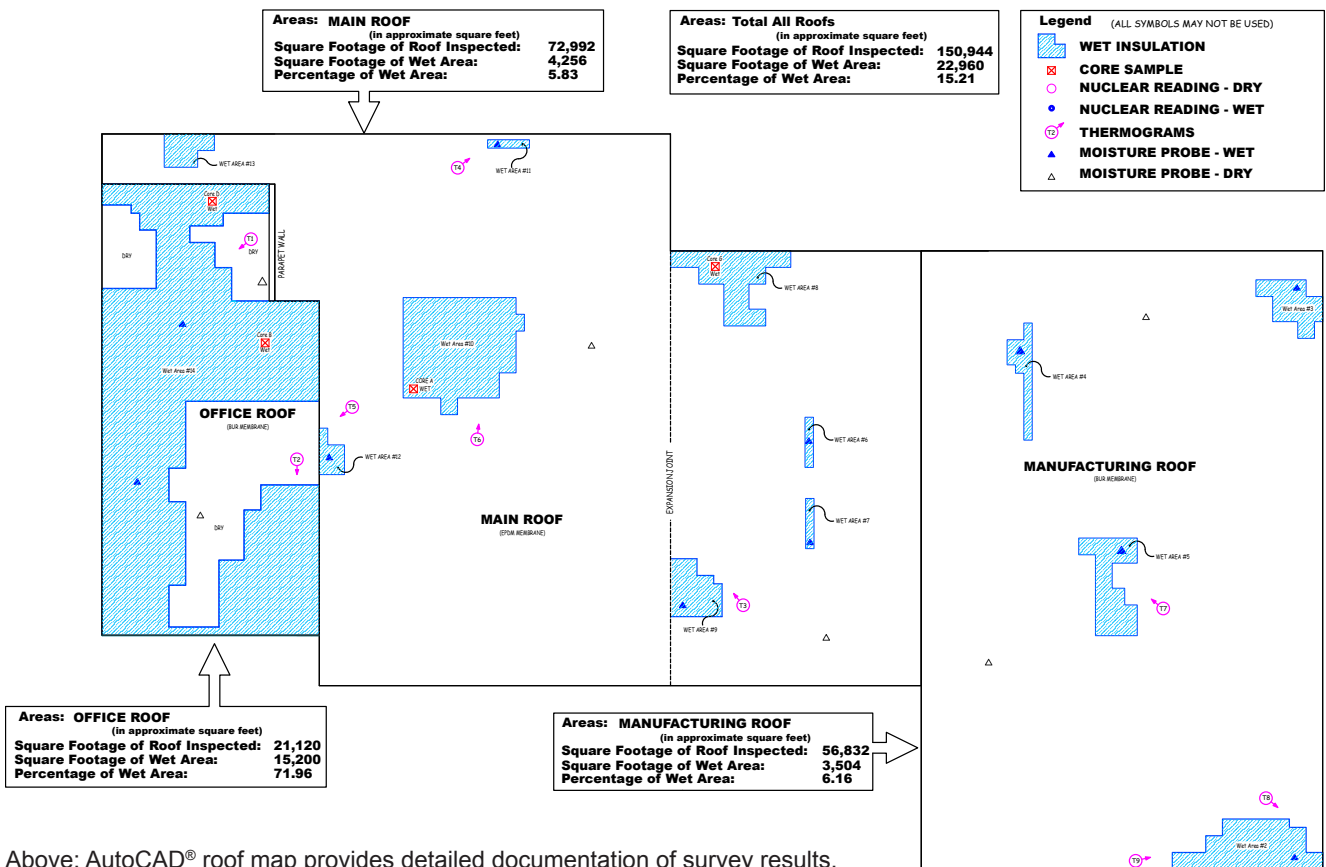
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# INFRARED DETECTION & ANALYSIS

Revealing Internal Roof Condition

## About Our Reports.. (continued)

- **Infrared Roof Moisture Survey Report on CD-ROM or by E-mail:** Everything in the standard bound inspection report on one disk, in popular PDF format for easy retrieval, viewing and printing. Reports can also be e-mailed for even faster turnaround.



Above: AutoCAD® roof map provides detailed documentation of survey results.

## The Bottom Line..

Do you have questions about infrared or nuclear roof moisture surveys and how they can help you win more jobs and make more money? Please call us toll free at 800-879-1964.

## Full Service Thermographers..

In addition to roof surveys, we also provide a full range of commercial thermographic inspection services:

ELECTRICAL

MECHANICAL

STEAM

BUILDING ENVELOPE

CUSTOM SERVICES



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