## Infrared roof inspection saves \$100,000

A persistent leak in a 28,000 square foot built-up roof stimulated a commercial building owner to find the cause. Using a FLIR ThermaCAM® infrared camera, John R. Tendorf of Murray Roofing Company, Inc. was able to locate and mark off a relatively small 1,200 square foot wet area, which was torn out and replaced.

Thanks to the infrared roof inspection, the building owner escaped having to do a complete tear off and new roof installation, which would have cost from \$90,000 to \$119,000. In comparison, the cost for the actual repair was just \$5,400 — yielding a cool \$100,000 in savings!

**APPLICATION NOTE:** The ThermaCAM® RoofCAM is a breakthrough lightweight and affordable infrared camera designed specifically for the roofing industry. This self-contained, handheld device enables operators to locate damage and/or deterioration caused by water leakage in roofing systems, as stated in the ASTM C 1153 "Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging." The RoofCAM can save an enormous amount of time and money by pinpointing and enabling the repair of wet, failed areas of a roof, rather than replacing an entire roofing system.





Left: John R.Tendorf, Murray Roofing Company, Inc. Right: ThermaCAM RoofCAM



Sections of the 1200 square-foot wet area, which appear yellow in the infrared thermographs were torn out and replaced. The roofing system is a built-up type, consisting of a waterproof top layer of multiple coal tar pitch and modified bitumen plies with a pea gravel UV-reflective cover layer. The roof underlayment consists of 2 inch thick perlite on a steel deck substrate.