

ROOF MOISTURE SURVEYS

by

Petersen Lambert, PE, BECxP, CxA+BE

IMPORTANCE OF ROOF ASSESSMENT

Roof assessments prevent premature or unnecessary roof replacement, as it can be costly. Among all the components of a roof, insulation tends to be the most expensive. It is important to note that wet insulation is ineffective in providing insulation. Additionally, it is not possible to re-roof over materials that are wet or partially wet.

Roof assessments play a crucial role in several aspects. They help in evaluating the overall condition of the roof, identifying any underlying moisture issues, and determining the type of roofing assembly in place. Moreover, these assessments assist in budgeting for future roof replacements, providing valuable information for planning and financial considerations.

Aspects of Roof Assessment

- Visual Survey
 - Visual survey of buildings and plans
- Non-Destructive Testing
 - Infrared (IR) Thermography Scan
 - Electrical Impedance Scan
 - Nuclear Hydrogen Detection Scan
- Destructive Testing
 - Core Samples
 - Prong Type Moisture Meter

Benefits of Non-Destructive Testing

- How Infrared (IR) Thermography Scans work
- Pros and Cons of Infrared (IR) Thermography Scan
- How Electrical Impedance Scans work
- Pros and Cons of Electrical Impedance Scan
- How Nuclear Hydrogen Detection Scans work
- Pros and Cons of Nuclear Hydrogen Detection Scan

Limitations

