IntegriScan™ Electronic Leak Detection

Detec systems
Detec’s IntegriScan is the most accurate electronic testing method available. This advanced, low voltage test ensures 100% of the membrane is free of breaches, holes, and seam voids.

The IntegriScan’s unique technology facilitates a reliable test compared to vector mapping and archaic flood testing. The IntegriScan equipment eliminates the need for a perimeter wire by limiting the testing area to directly below the Scanning Platform. Detec’s Vertical Scanning Unit (VSU) tests vertical surfaces, rebar flashings, and hard to reach areas. The IntegriScan is the ONLY method available for testing black EPDM and other semi-conductive membranes. Additionally, TruGround Conductive Primer enables electronic testing on conventional assemblies with non-conductive substrates such as wood, insulation, and coverboard.

Benefits of IntegriScan Quality Control Testing

- Verifies the integrity of roofing or waterproofing assemblies.
- Pinpoints breaches, holes, and seam voids after membrane installation so repairs can be made immediately—ensuring minimal impact to the construction schedule.
- Quick, efficient, and reliable. The IntegriScan scanning platform can test up to 40,000 ft² in a day.
- Ensures 100% coverage. Tests horizontal surfaces, vertical surfaces, details, and penetrations.

TruGround® Conductive Primer

TruGround enables reliable membrane integrity testing for conventional roof assemblies. TruGround is applied to the non-conductive substrate directly under the membrane.

- Enables electronic testing of exposed conventional assemblies for the life of the building
- Compatible with low and high voltage ELD testing methods
- Complies with ASTM D8231 & D7877
- Facilitates testing of black EPDM
- Suitable for fully adhered, mechanically attached, fluid applied, and torch-down membranes
- Easily applied to transitions and details
- Typically dries in under 30 minutes
- No risk of membrane punctures or corrosion and is approved by membrane manufacturers
- Can be applied to any substrate
Other testing methods are often inconclusive for many roofing and waterproofing systems. The advanced technology behind the IntegriScan goes further. Detec’s IntegriScan exclusively meets both ASTM Standard Guide D7877 and Standard Practice D8231.

Why The IntegriScan Is The Best

<table>
<thead>
<tr>
<th>COMPARE</th>
<th>Flood Testing</th>
<th>Vector Mapping</th>
<th>High Voltage Testing</th>
<th>IntegriScan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests Inverted Assemblies</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tests Conventional Assemblies</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Pinpoints Breaches</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>100% Coverage</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Time Efficient</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Reliably Tests Verticals</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Tests in Wet Conditions</td>
<td>✓</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Tests Black EPDM</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Detects Seam Voids</td>
<td>✗</td>
<td>✓</td>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

1. Flood Testing of Conventional Assemblies is not Recommended due to Structural Stress
2. Unable to Reliably Identify Location of Leak
3. Testing Takes Days
4. Unable to Test Vertical Surfaces

1. Lengthy Setup Process
2. Unable to Test Black EPDM or Semi-Conductive Waterproofing

1. Unable to Test Black EPDM or Semi-Conductive Waterproofing
2. With an Installed Conductive Medium such as TruGround® Conductive Primer

US Pat No. 10,345,188 CAN Pat No. 2,988,669
There are Many Membrane Types. There’s One Choice for Quality Assurance.

Projects of all scale and scope throughout the world have specified Detec to ensure peace of mind and long service life for their membrane assemblies.

Past Projects

- **INSTITUTIONAL**
  - University of Washington
    - Seattle

- **ARCHIVAL/DATA STORAGE**
  - Facebook
    - Prineville

- **GREEN/VEGETATED**
  - Museum of Westward Expansion
    - St. Louis

- **PLAZA DECKS/PARKADES**
  - Michigan State Capitol
    - Lansing

- **MUSEUMS**
  - Royal Alberta Museum
    - Edmonton

- **COMMERCIAL/RETAIL**
  - Nordstrom Tower
    - New York

- **EVENT FACILITIES**
  - Wrigley Field
    - Chicago

- **BELOW GRADE WATERPROOFING**
  - SR99 Tunnel
    - Seattle

- **RESERVOIRS**
  - Beacon Hill Reservoir
    - Seattle

**CONTACT US:**

- 855-753-3832
- info@detecsystems.com

Get the Spec → go to detecsystems.com