

## Detec Electronic Leak Detection

Carlisle SynTec Systems has collaborated with Detec Systems to offer many Factory Mutual (FM) rated and warrantable roof assemblies that include Detec's TruGround Conductive Primer. Detec Systems' patented TruGround Conductive Primer is an easy to apply conductive medium that is needed to effectively test conventional roofing assemblies for breaches, holes, and seam voids using quality control electronic leak detection (ELD) methods. ELD has become the preferred option for ensuring a watertight membrane on overburden installations and other critical building projects.

Detec's TruGround Conductive Primer is brush- or roller-applied to the substrate located directly below the membrane, prior to adhesive and membrane application. Once the TruGround Conductive Primer has dried, adhesive can be applied and the membrane installed like any other roof system.

For leak detection to be accurate, a conductive medium must be installed directly below the roofing membrane as required by ASTM D7877 - Standard Guide for Electronic Methods for Detecting and Locating Leaks in Waterproofing Membranes. Because TruGround primer goes down in a thin, liquid-applied coat, it is easily placed in the required location. Alternative conductive mediums often consist of materials that make membrane adhesion difficult or impossible when placed in the required location, leading to improper placement below a coverboard or insulation which invalidates the ELD testing.

Due to the advantages of TruGround primer, Carlisle has conducted testing with FM as well as other 3<sup>rd</sup> party testing agencies to vet roof system performance when TruGround primer is added to the assembly.

The following roof assemblies have been tested and approved by FM with the addition of TruGround. **These assemblies are eligible for the same FM rating as they would without TruGround.** Contact Carlisle for associated RoofNav numbers.

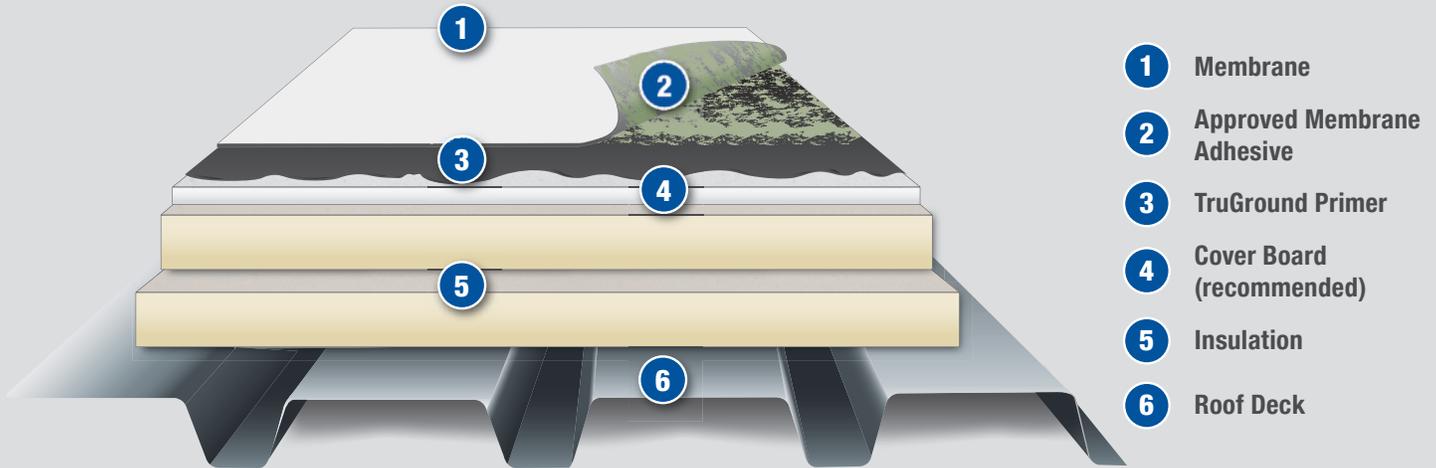
**Sure-Seal® EPDM membrane adhered with CAV-GRIP® III adhesive to the following substrates:**

- » Carlisle SecurShield® Polyiso
- » Carlisle SecurShield HD Polyiso
- » Carlisle SecurShield HD Plus Polyiso
- » DensDeck® Prime
- » SECUROCK®

**Sure-Weld® TPO membrane adhered with CAV-GRIP III adhesive to the following substrates:**

- » Carlisle SecurShield Polyiso
- » Carlisle SecurShield HD Polyiso
- » Carlisle SecurShield HD Plus Polyiso
- » DensDeck Prime
- » SECUROCK





- 1 Membrane
- 2 Approved Membrane Adhesive
- 3 TruGround Primer
- 4 Cover Board (recommended)
- 5 Insulation
- 6 Roof Deck

**Sure-Flex™ PVC membrane adhered with Low-VOC Bonding Adhesive to the following substrates:**

- » Carlisle InsulBase® Polyiso
- » Carlisle SecurShield Polyiso
- » Carlisle SecurShield HD Polyiso
- » Carlisle SecurShield HD Plus Polyiso

The following roof assemblies have been tested and approved by FM with the addition of TruGround, but are **limited to an FM 1-90 rating**. Contact Carlisle for associated RoofNav numbers.

**FleeceBACK membranes adhered with Flexible FAST adhesive applied in splatter to the following substrates:**

- » Carlisle InsulBase Polyiso
- » Carlisle SecurShield Polyiso
- » Carlisle SecurShield HD Plus Polyiso
- » DensDeck Prime
- » SECUROCK
- » EcoStorm VSH

**Sure-Flex PVC membrane adhered with Hydrobond Bonding Adhesive to the following substrates:**

- » Carlisle InsulBase Polyiso
- » Carlisle SecurShield Polyiso
- » Carlisle SecurShield HD Plus Polyiso
- » DensDeck Prime
- » SECUROCK
- » EcoStorm VSH



**TruGround inclusion in Carlisle Total System Warranties:**

For projects that are not FM insured, Carlisle approves and warrants the use of Detec TruGround in all current roof assemblies. Carlisle warrants that the use of TruGround within the roof assembly will not detrimentally affect the performance of the roof assembly. Roof assemblies using TruGround can achieve the same uplift rating and warranty terms as the same assembly would be eligible for without TruGround.