

Detec Electronic Leak Detection

Carlisle SynTec Systems has collaborated with Detec Systems to offer the single-ply industry's first and only Factory Mutual (FM) rated roof assemblies that include Detec's TruGround conductive medium that is needed for effective electronic leak detection (ELD). ELD has become the method of choice for ensuring a watertight membrane system that is free of breaches, holes, or seam voids. Detec Systems' patented TruGround Conductive Primer makes it easy to apply the conductive medium directly on the substrate prior to membrane installation.

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

For leak detection to be accurate, the conductive medium must be installed directly below the roofing membrane. Until recently, there were questions about adhesion and uplift performance with the addition of the conductive medium between the membrane and substrate. Carlisle conducted testing with FM to ensure the performance of a select few of its roof assemblies were unaffected by the addition of the conductive medium, and therefore insurable by FM. The following Carlisle SynTec Systems roof assemblies have been tested and approved by FM:

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®

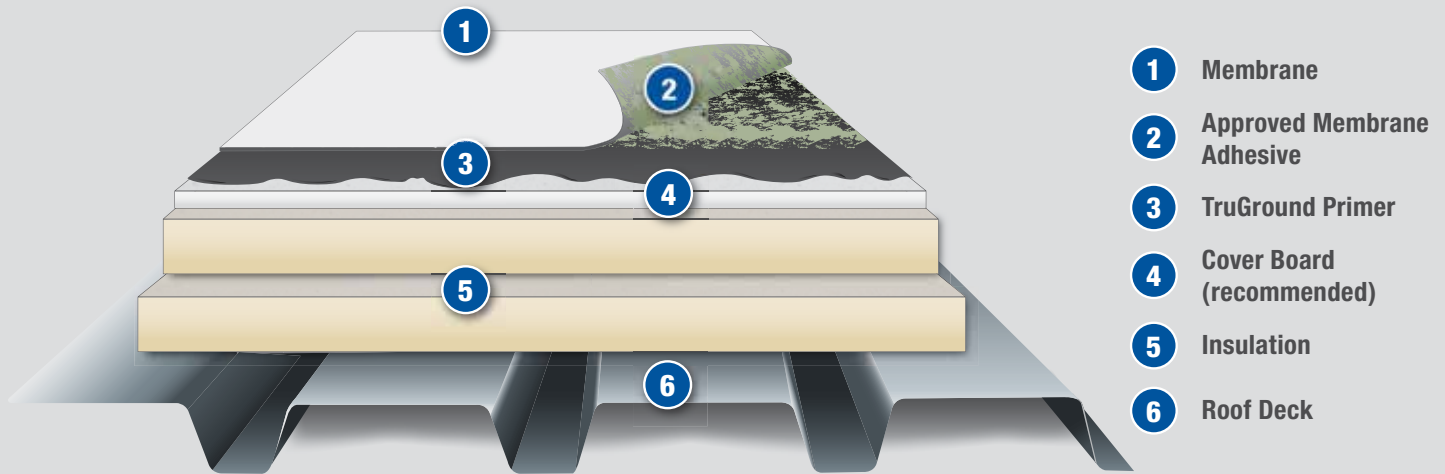
Sure-Weld® TPO membrane adhered with CAV-GRIP III adhesive to the following substrates:

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

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





If an FM rated roof assembly including electronic leak detection is required, one of the above listed assemblies must be used. In cases where the building is not FM insured, but a Carlisle Total System warranty is desired, the assemblies listed above or below may be used:

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

- » Carlisle InsulBase Polyiso

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

- » Carlisle InsulBase Polyiso

Sure-Flex PVC membrane adhered with Low-VOC bonding adhesive to the following substrates:

- » DensDeck Prime
- » SECUROCK

FleeceBACK® membranes adhered with Flexible FAST™ Adhesive to the following substrate:

- » DensDeck Prime

