



Vector Mapping Grid (VMG™)

Overview: The VMG™ is a specially selected stainless steel grid that serves as a patented conductive medium when used with roofing/waterproofing systems that incorporate Electric Field Vector Mapping (EFVM®) leak detection systems. The VMG™ is installed below the roofing/waterproofing membrane. It enhances the overall effectiveness of the EFVM® test procedure by placing the conductive medium as close to the roofing/waterproofing membrane as possible.

The VMG™ must be used if any of the following conditions exist:

- in 'conventional' assemblies that incorporate insulation under the roofing/waterproofing membrane.
- in assemblies that incorporate a non-conductive structural deck such as wood, unreinforced concrete, hollow core concrete, or cellular lightweight concrete
- when the existing waterproofing material or vapor barrier will remain in place
- when the new waterproofing system includes a vapor barrier over the structural deck.

Composition: The VMG™ is composed of a stainless steel 50mm x 50mm x 0.6mm SS 304 Grid.

Features: The VMG™ is a compatible measurement grid for roofing/waterproofing systems that incorporate EFVM® leak detection systems. The measurement grid design allows water, moisture and vapor to pass through the grid without concern of creating a vapor barrier within the roofing/waterproofing assembly. Since the grid is composed of stainless steel, it is durable and will not rust. The VMG™ will only be electrified during the EFVM® leak detection test and therefore is not subject to code requirements.

Packaging: The VMG™ is supplied in 47" x 164' (1.2 m x 50 m) rolls.

Installation: The VMG™ is installed below the roofing/waterproofing membrane. Overlap adjacent VMG™ sheets a minimum of 2 in. (50 mm) in all directions. Positive contact between adjacent VMG™ sheets is required at all overlaps. Tape adjacent VMG™ sheets together using duct tape or aluminum tape spaced approximately 5 feet on center to assure positive contact and to prevent shifting of the VMG™. Full taping of the overlap areas is acceptable. Install roofing/waterproofing system over the VMG™.

Connection: The VMG™ is electrically energized during the EFVM® test through direct contact with the EFVM® Connection Plate. See the EFVM® Connection Plate Kit product data sheet for additional information.