



## EFVM® Connection Plate Kit

**Overview:** The EFVM® Connection Plate Kit is comprised of two (2) stainless steel EFVM® connection plates attached to insulated connection wires. The EFVM® Connection Plates are utilized to electrically energize the Vector Mapping Grid (VMG™), installed under the roofing/waterproofing membrane, during the EFVM® test.

**Composition** The EFVM® Connection Plate is a 0.45mm, 6" x 6" SS 304 plate, connected to an insulated, exterior graded 16 gauge low voltage wire, 5'-6" in length.

**Features:** The EFVM® Connection Plate is utilized to energize the VMG™, installed under the roofing/waterproofing membrane, during the EFVM® test.

**Packaging:** The EFVM® Connection Plate Kit includes two (2) connection plates each with an attached connection wire. The kit weighs approximately 0.5 lbs.

**Installation:** The EFVM® Connection Plates are placed directly below the VMG™ with the connection wire facing up. Two (2) connection plates are required per roof level up to a maximum roof area of 25,000 square feet. Install the two (2) connection plates in opposite corners of the roof. Use four (4) plates for roofs that are 25,000 to 50,000 square feet, six plates for roofs that are 50,000 to 75,000 square feet, etc.

Install the additional connection plates in a zigzag pattern equally spaced along the perimeter of the roof. For a square or rectangular shaped roof with the long side running south to north place the connection plates as follows:

- a. Place the first connection plate in the southwest corner.
- b. Place the second connection plate one-third (1/3) of the way up the east wall from the southeast corner.
- c. Place the third connection plate two-thirds (2/3) of the way up the west wall from the southwest corner.
- d. Place the fourth connection plate in the northeast corner.

For roofs that are not square or rectangular, or roofs that are an unusual shape, submit a roof plan to ILD for proper connection plate location.

Install the EFVM® Connection Plates concurrently with the VMG. Run the connection wire behind the membrane flashing or through the roofing/waterproofing membrane into a manufacturer approved flashing sleeve fastened to the deck. Leave at least 18 inches of connection wire available for attachment of the EFVM® Connection Plug. The EFVM® Connection Plug will be furnished and installed by the EFVM® technician during the EFVM® test.

**Connection:** The EFVM® Connection Plate will be connected to the portable EFVM® impulse generator, through the EFVM® Connection Plug, by the ILD technician during the EFVM® test.