

# INFI-SHIELD®

## UNI-BAND

### SPECIFICATION FOR MANHOLE ADJUSTMENT RINGS

Patent #7,789,586

#### **PART I - GENERAL**

##### **1.01 SCOPE**

This section shall include the complete Uni-Band seal manhole sealing system. The sealing system shall prevent leakage of water into the manhole through the frame joint area and through the adjustment ring area.

##### **1.02 MATERIALS TO BE FURNISHED**

All materials required for the installation of the Uni-Band manhole sealing system shall be furnished by the contractor and shall be new, of first grade, and shall be of reputable manufacturers known to the trade.

#### **PART II - PRODUCTS**

##### **2.01 GENERAL**

The casting shall be sealed to the structure with a Uni-Band sealing system as manufactured by Sealing Systems, Inc. (800-478-2054) or approved equal. The seal shall be a continuous seamless band made of high quality EPDM (Ethylene Propylene Diene Monomer) rubber with a minimum thickness of 65 mils. There shall be a preformed L shaped corner molded into the top of the seal. The top section and the side section will extend from the L shaped corner at a generally 90-degree angle to each other. Wherein the seal is preformed in substantially the same shape as when attached to the manhole structure. The thickness of the L shaped corner extending 1" into the top section and 1" down the side section is increased and may be at least twice the thickness of the top section reinforcing the seal at this particular area. There shall be a 2" to 3" wide strip of butyl mastic attached to the underside of top section of the seal. There shall be a 2" wide strip of butyl mastic attached to the inside of the side section at the bottom of the seal. The mastic shall be non-hardening butyl rubber sealant, with a minimum thickness of 1/8", and shall seal to the cone/top of the manhole section and over the flange of the casting frame. An aerosol primer shall be used to enhance the bond strength of the seal to the structure.

#### **PART III - EXECUTION**

##### **3.01 INSTALLATION**

The Uni-Band seal sealing system shall be installed according to the manufacturers recommendations. The top section of the seal shall extend 3" attaching to the casting base/flange with the side section covering over the entire grade adjustment ring area and onto the cone section a minimum of 2".