

# INFI-SHIELD®

## INTERNAL UNI-BAND

### SPECIFICATION FOR MANHOLE ADJUSTMENT RINGS

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

##### **1.01 SCOPE**

This section shall include the complete Internal Uni-Band manhole sealing system and extensions if needed to bridge the entire adjustment grade ring area connecting the top of the manhole cone section to the bottom of the casting frame. The Internal Uni-Band sealing system shall prevent leakage of water into the manhole through the casting frame joint and the adjustment grade ring area.

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

All materials required for the installation of the Internal 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. The seal shall be equal to or greater than the results of the following ASTM test methods.

D412-06a Tensile Strength 1900 psi  
D412-06a Elongation at Break 600%  
D624-00 Tear Resistance 300 lb.f/in

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

##### **2.01 GENERAL**

The manhole sealing system will prevent water infiltration by use of an Internal Uni-Band manufactured by Sealing Systems, Inc. (800-478-2054) or an approved equal. The sealing system shall incorporate an extruded seal made of a high quality rubber compound with a minimum thickness of 3/16 inches, the extruded seal shall be joined together with a hot vulcanized splice creating a continuous band. The sealing system shall incorporate the use of an expansion band with no welded attachments made of 16 gauge 304 stainless steel to permanently hold the seal in place. The expansion band applies outward pressure against the seal by use of a permanently placed 304 stainless steel expansion device having infinite control. The seal shall be molded in such a way that a 2 inch wide channel is formed circularly inside at the top and bottom portions of the seal to accept the placement of the expansion band. On the outside of the seal opposite the top and bottom 2 inch wide channel is a 2 inch wide strip of closed cell polymer foam encompassing the outer side of the seal.

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

##### **3.01 INSTALLATION**

The Internal Uni-Band sealing system shall be installed according to the manufacturers recommendations. The seal shall cover the entire grade ring area with the top 2" section of the seal positioned against the inside of the casting frame and the bottom 2" section of the seal positioned against the top of the cone section. An interlocking extension to the seal may be required to bridge the entire grade ring area.