



2151 South 54th Street  
West Allis, WI 53219  
Phone: 414.764.6733  
Fax: 414.764.1494  
[www.adaptorinc.com](http://www.adaptorinc.com)

# Internal/External Adaptor Seal

The Internal/External Adaptor Seal (I/E. A. Seal) is a sanitary manhole seal which prevents infiltration into the sewer system. The I/E. A. Seal stops inflow between the manhole frame and the top adjusting ring, it also seals the manhole chimney from the frame to the corbel.

The design of the I/E. A. Seal produces a rubber gasket seal, which seals the manhole frame and allows it to move with the road surface due to frost movement and thermal expansion. It also produces a stress barrier between the frame and the manhole chimney from direct load bearing of the traffic. This will help preserve the integrity of the manhole chimney.

## Ordering Information Needed

- Casting I.D. # Example: (Neenah 1550)  
(East Jordan 1022-Z2)
- Sleeve Length: (12" 16")  
(Amount of Adjusting Rings plus 2")
- O.D. of Adjusting Ring: (34" 35" 36" 37" 38")



# Internal/External Adaptor Seal

## Detail Specifications

### BUTYL TAPE

Percent Solids (ASTM-C-771)	99% by Weight
Service Temperature Range	-70°F to 220°F
Webbing & Elongation	600% min. @ 77° F 900% Typical 400% min. @ 32° F 450% Typical
Adhesion Tensile Strength	20 psi min.
Chemical Resistance	Excellent to water, alcohols, acids and bases.
Federal Specification	Federal IT-C-1796A Typell. Class B supersedes Mil-C-18969B

### RECYCLED RUBBER SPECIFICATIONS

Original Physical Properties ASTM D 412, D 2240	
Die dumbbells tested at 20 in./min.	
Ultimate Elongation, %	80
Tensile Strength, PSI	750
Shore Durometer, PTS	67
Tear Resistance, ASTM D624 Die C	
Specimens tested at 20 in./min.	
Tear Strength	117
Taber Abrasion, ASTM D297	
Taber wear index, MG/loss/1000 cycles	436
Tear Resistance, ASTM D624 Die C	
Water displacement method, Specific displacement method	
Specific Gravity, G/CM	1.06-1.153

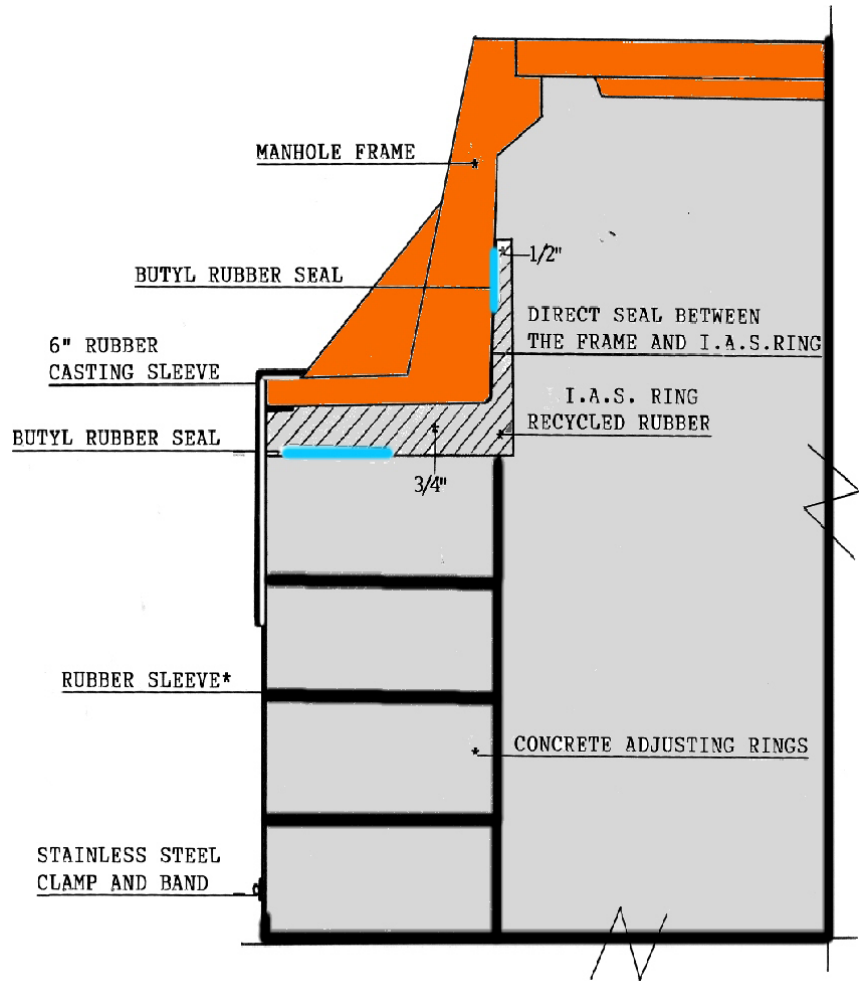
### STAINLESS STEEL CLAMP & BAND

Clamp	Band-it-screw-seal stainless steel clamp
Band	Type 304 austenitic, non-magnetic stainless steel band 0.020" (51mm) thick, 1/2" wide

### EPDM RUBBER SLEEVE

High Grade

Specifications	
Durometer	50 (±5%)
Tensile Strength	1500
Elongation	350%
Thickness	0.62



The Internal/External Adaptor Seal is made from a High Grade EPDM rubber sleeve and Butyl mastic which meets or exceeds the ASTM C877 and ASTM C923 specifications.

The I/E Adaptor Seal shall remain flexible for a 20 year design life. It will allow for repeated vertical movement of the frame of not less than 2" and a least 1/2" of horizontal movement. both rates of movement occurring at rates not less than .10 inch per minute.



AMERICAN MADE PRODUCTS

[WWW.ADAPTORINC.COM](http://WWW.ADAPTORINC.COM)