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800 626 4653

INFRA-RISER®  
Multi-purpose Rubber  
Composite Adjustment Riser



# Adjustment Riser Access Solution



Adjust any manhole or catch basin to grade on your resurfacing projects, new installations, or rehabilitation work with INFRA-RISER® rubber composite adjustment risers.

## BELOW GROUND — INFRA-RISER® RUBBER ADJUSTMENT RISER:

Reduces traffic vibration damage—prolonging the life of manhole structures and surrounding pavement

Protects against load concentration stress

Dramatically reduces water infiltration

Perfect grade adjustment in moments with uniform precision

Will not break, split, rot, crack, or chip; lasts indefinitely

Made of 92% recycled raw materials

Round, square, and rectangular designs; flat and tapered risers, select bolt hole patterns

# How to deal with traffic vibration and road stress that affect your infrastructure

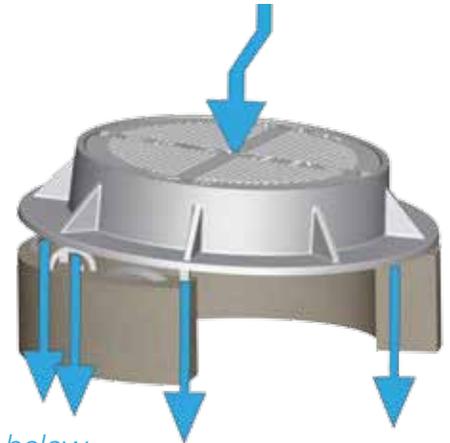
## Traffic vibration and stress not being dissipated properly

Vehicle wheels create a chronic stress on manhole frames. When two rigid surfaces are in constant high-stress contact with each other, the friction between the two can create damage to the surrounding road surface. The issue is often more severe below the surface, which can cause permanent damage to the manhole structure and its attached network.



### Problems above ...

Shimming to raise a manhole frame and cover creates friction and stress directly on the concrete ring, causing damage to the ring and its surrounding areas.



## Maintain the integrity of your infrastructure by reducing traffic vibration damage

The INFRA-RISER® rubber composite adjustment riser is a simple, economic, efficient, and long-lasting solution for manhole structure damage problems. It dissipates the energy transferred between the casting and the manhole structure. Since the surfaces are separated by the adjustment riser, the friction/stress component is dramatically reduced. These two elements then work together, rather than against each other, to help maintain the integrity of the infrastructure support system.

### Compression properties is the key

Due to the compression properties of the rubber composite adjustment riser, traffic loads are more uniformly distributed over the entire supporting structure, rather than concentrated in specific high-stress areas.

### Maximize performance and extend lifetime

INFRA-RISER products are the ideal tool for Departments of Transportation and municipalities seeking to maximize the performance and extend the lifetime of infrastructures, while achieving significant cost savings.

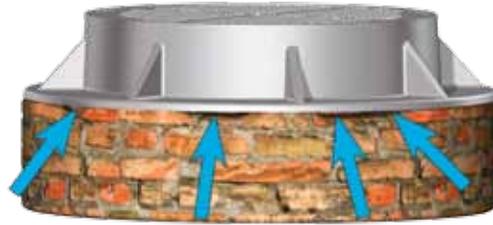


Rubber adjustment risers provide uniform distribution of traffic loads while dissipating vibrations.

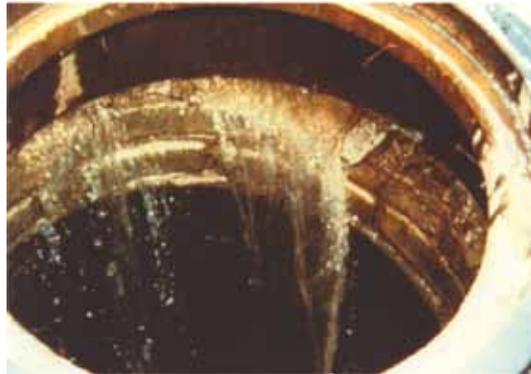
## How to deal with unwanted water infiltration

### Uneven surfaces allow water to infiltrate

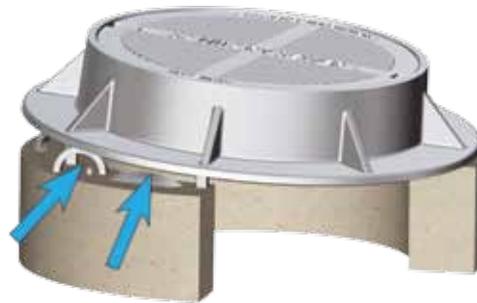
There is no water tight seal when rigid and irregular surfaces, such as brick and mortar or concrete are used alone. This problem is compounded with the instability of a shimmed joint as foreign matter and particles become dislodged to allow greater amounts of water to infiltrate.



Water penetrates between rigid and irregular surfaces.



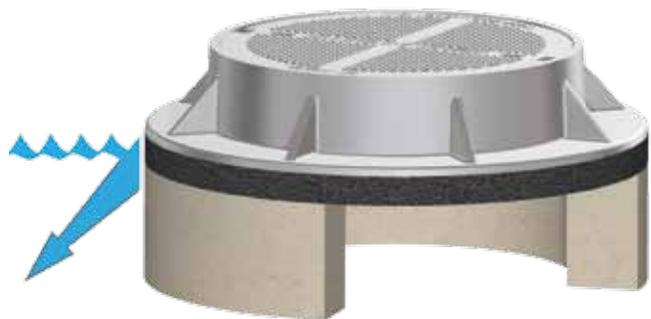
Unwanted storm water damages manhole support systems when entering infrastructure systems.



Water penetrates shimming material and through cavities.

### Tight seal reduces water infiltration

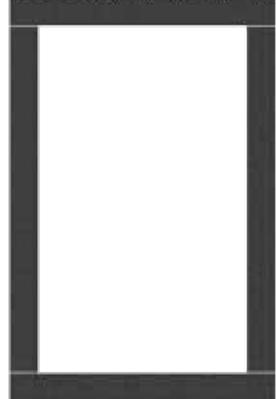
When installed according to guidelines, these adjustment risers help prevent the flow of water infiltration. They create a virtual tight seal between the manhole chimney structure and the manhole or catch basin frame.



With the INFRA-RISER ring's effective gasket-like seal\*, stormwater is prevented from entering the sewer system.

\*Use of the recommended polyurethane sealant is required for prevention of water infiltration and vacuum testing.

## Standard and Custom Shapes for a variety of applications

FLAT	TAPERED	CUSTOM SHAPES AND SIZES
 Round	 Round and tapered	 Straight cut INFRA-RISER strips.  Width: 3", 4", 5", 6" Length: 12" – 60" Thickness: Flat only (no taper) 1", 1 1/2", 2", 2 1/2", 3" Corners: Straight cut
 Square	 Square and tapered	
 Rectangular	 Rectangular and tapered	

**STANDARD THICKNESSES:** 1/2", 1", 1 1/2", 2", 2 1/2", 3"\*

\* Recommended height of stacked adjustment risers should not exceed 3" on any installation.

## Contains recycled tires and fortifying additives



Old tires ready to be recycled.



Crumb rubber recycled from old tires and RFL coated fiber.



INFRA-RISER® rubber composite riser is an environmentally friendly product.

EJ products may earn you LEED® credits in the Materials and Resources category

## Technical Specifications

Engineered to meet industry requirements.

The INFRA-RISER® product is a composite material made of recycled rubber tires, fortifying additives, and urethane binders.



### MINIMUM REQUIREMENTS

**DENSITY:**

64.214 lbs/cubic ft, ASTM D3574-05, TEST A

**DUROMETER HARDNESS:**

Molded surfaces: 77A±5, ASTM D2240-05

**TENSILE STRENGTH:**

304 psi (not less than 145 psi), ASTM D412-06

**HEAT AGES PROPERTIES:**

70 hrs @ 158°F, 3 hrs. @ 300°F, ASTM D573-04

**DUROMETER RETAINED:** 100%

**TENSILE STRENGTH RETAINED:** 100%

**COMPRESSION DEFORMATION:** 100%

**LOW TEMPERATURE BRITTLINESS:**

5 hrs. exposure. No signs of cracks, ruptures or degradation -40°C

24 hrs. exposure. No signs of cracks, ruptures or degradation -40°C

**Easy to use, Easy to handle and Unbreakable!**

Your local EJ Representative can provide you with more information on the INFRA-RISER® adjustment riser product line, including: technical specifications and drawings for all risers; complete listing of available sizes; installation procedure for vacuum test.



## Installation Guidelines

1. Apply a continuous strip 5/16"– 3/8" thick of polyurethane joint sealer/adhesive on the top surface of the concrete structure or brick course. Place on a diameter 1" smaller than the outside or inside diameter of the adjustment riser.
2. Position the riser in place, ensuring it is centered over the top surface of the concrete structure or brick course of the manhole structure or catch basin.
3. Apply a second continuous strip 5/16"– 3/8" thick of polyurethane joint sealant/adhesive on the top surface of the rubber riser 1" smaller than the outside or inside diameter of the frame. If more than one adjustment riser is used\*, a continuous strip of sealant/adhesive is to be laid between each ring.
4. Center the frame of the manhole or catch basin over the structure opening. Place bottom of frame onto adjustment riser. Press down, applying firm pressure to the frame to create a tight seal with the sealant and adjustment riser.

\*The height of the risers must be at least 1/2". The recommended height should not exceed 3".





*"Our crews installed the ring [INFRA-RISER®] on each manhole at that intersection and we didn't have to rebuild them again. The problem fell off the radar screen."*

—Dave Hofer, Assistant County Engineer, New Castle County, Delaware



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East Jordan Iron Works, Inc., East Jordan, Michigan, USA, and its affiliated companies including Norinco in France, Cavanagh in Ireland, McCoy in Canada, and HaveStock in Australia, are pleased to announce that beginning January 6, 2012, we will all do business under one brand, EJ.

We will continue to provide the same quality products and excellent service that our customers have come to expect, but under a new name, EJ. One global name and brand will unify the company and support our vision to be the global leader in infrastructure access solutions.

**EJ USA, Inc.**

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Registered Mark(s)



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