

# INTRODUCING EULL'S MANHOLE SHIELD

A superior, turnkey system for final manhole adjustments



**EULL'S MANHOLE SHIELD** is a turnkey system for final manhole adjustments that combines all structural elements in one package for an incomparable fit and finish. The system is designed to remove the guesswork from manhole adjustment process and includes concrete grade rings, underground mortar, masonry shim strips and an impermeable I&I barrier. Each component functions as part of a cohesive unit, which simplifies installation, minimizes maintenance, and ensures long-term durability, reliability, and safety.

## PREFERRED COMPONENTS

	<p><b><i>Eull's Concrete Manhole Grade Rings</i></b> have been the industry's "gold standard" in concrete adjustment rings for more than 60 years. The rings are available in multiple diameters and thicknesses, allowing for precision leveling and quick installation. Manufactured using the latest technology and under tight quality control standards, the rings have the strength and durability to stand up to the harshest weather.</p>
	<p><b><i>Strike Products I&amp;I Barrier</i></b> forms a quick-to-install interior wall to stop moisture from infiltrating the manhole. Its weather- and puncture-resistant design keeps groundwater, mortar and soil out of the manhole, reducing the amount of sediment-filled runoff water municipalities have to treat. The barrier also protects adjusted structures from hydrogen sulfide exposure.</p>
	<p><b><i>TCC Materials Underground Utility Mortar</i></b> is the equivalent of quality control in a bag – a prepackaged, air-entrained mortar designed for underground construction. The mortar achieves consistent, predictable performance when mixed with clean water. Formulated for a superior bond, the mortar resists salts and sulfides, and meets or exceeds ASTM C270.</p>
	<p><b><i>High-Impact Plastic Shims</i></b> ensure proper slope and fit in every Eull's Manhole Shield installation, regardless of roadway contours. The shims, which won't rust or rot, achieve consistent performance because they resist alkalis, chemicals, liquids, and microorganism growth.</p>

VISIT [WWW.EULLSMFG.COM/SHIELD](http://WWW.EULLSMFG.COM/SHIELD) OR CALL 763-497-2742  
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## SPECIFICATIONS

### *Eull's Concrete Manhole Grade Rings:*

Meets MnDot Specifications 1603 & 2506

24" X 2"	27" X 2"
24" X 4"	27" X 3"
24" X 6"	27" X 4"
	27" X 6"
26" X 2"	30" X 2"
26" X 4"	30" X 4"

### *Strike Products I&I Barrier*

<b>Property</b>	<b>Test Method</b>	<b>Result</b>
Melt Index	ASTM D-1238	4.5
Density	ASTM D-792	.938
Tensile strength at yield, psi	ASTM D-638	2800
Elongation at break, %	ASTM D-638	400
Flexural Modulus, tangent, psi	ASTM D-790	115,000
ESCR	ASTM D-1693	1000
UL-94 @ .060 & @ .120 thickness	UL-94	HB
Deflection Temp, 88 psi, °C	D-648	83
Deflection Temp, 264 psi, °C	D-648	42
Low Temp Impact, -40°C, ft-lb	ARM	68

### **TCC Materials Spec Mix® Underground Utility Mortar**

Note: This product meets ASTM C 270 and ASTM C 1714 requirements.

<b>Unit Size</b>	<b>Unit Weight</b>	<b>Pack Qty.</b>	<b>Pack Weight</b>	<b>Pack</b>
80 lb.bag	80 lbs.	40	3200	Pallet

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