

# PRO-RING

## Maintenance Hole & Catch Basin Grade Adjustment System



*WSA Appraised, Approved by Water Authorities throughout Australia*

- 100 YEAR DESIGN LIFE
- PASSES WSA - PS 345 WITH LOADING TO AS 3996: 2019 CLASS D
- WATERTIGHT
- GAS TIGHT
- NOT AFFECTED BY H<sub>2</sub>S



*Approved by DOT's and  
Sewer Agencies throughout  
the U.S. and Canada*

### SAFER, FASTER, LIGHTER AND MORE COST EFFECTIVE THAN CONCRETE

PRO-RING™ is the worlds first and only manhole grade adjustment system made from Expanded Polypropylene (EPP), the same engineered polymer material that has been used in the automotive industry since the 1980's.

This high strength, lightweight plastic is the ideal material to replace traditional construction methods which use concrete, mortar and other masonry materials to raise manhole frames to their final elevation.

These masonry materials deteriorate rapidly over time due to the runoff of road salts, freeze-thaw, sewer gases and from continuous traffic impacts.

# FASTER-SAFER-LIGHTER

## Ideal Material

ARPRO® Expanded Polypropylene (EPP) has been used for challenging automotive applications and is renowned for its exceptional strength-to-weight ratio, its stability and toughness. EPP is not only durable, it has excellent chemical resistance and a long service life under the harshest conditions.

## Faster

People are amazed at our demonstrations, when one person can install an entire PRO-RING™ system in just minutes. The adjustment system is easy to assemble, watertight, and can be installed to within one quarter inch of the desired elevation.

## Safer

Concrete grade rings are heavy and may cause injury during handling and installation. The PRO-RING™ system reduces the risk of injury, lost time and comp claims. At 120g/L density, a single 36" x 24" x 6" (914mm OD x 610mm ID x 152mm high) PRO-RING™ weighs just 6.5kg and is easy to handle and install by a single worker. The ability to hand carry these adjustment rings into back yards, easements and remote locations, makes the overall process safer and less disruptive.

## Cost Effective

The PRO-RING™ system dramatically reduces the time and equipment required to construct or reconstruct a single manhole adjustment. Manhole repair sites can be opened and closed in a single day or in a few hours depending on pavement type and site conditions. This results in significant savings and minimizes the impact on traffic when it is necessary to close traffic lanes or streets to complete the work.

The PRO-RING™ system is installed and assembled using a polyether based adhesive/sealant which is applied using a caulk dispenser. This adhesive/sealant material has proven to be effective at sealing and bonding the rings to the manhole cone and to each other. The use of the PRO-RING™ system may result in as much as a **20% to 30% Overall Savings** when considering the expected **100 Year Design Life**.



The PRO-RING™ system is also backed by an industry leading 25 Year Material Warranty.

### TESTED TO MEET OR EXCEED THE FOLLOWING STANDARDS:

- WSA PS 345  
AS 3996: 2019 Class D load
- AASHTO M306  
HS-20 & HS-25 Load
- ASTM C1244
- ASTM C969
- ASTM D4819-13
- SAE J1885

### ANGLE RING

For slope adjustments

### FINISH RING

For finite adjustments

### GRADE RING

For gross adjustments



AVAILABLE IN MULTIPLE ROUND, SQUARE & RECTANGULAR SIZES



### ROUND RINGS 34" O.D. X 24" I.D. (864mm O.D. x 610mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
34-24F-075	FINISH	3/4"
34-24F-100	FINISH	1"
34-24F-125	FINISH	1-1/4"
34-24F-150	FINISH	1-1/2"
34-24F-175	FINISH	1-3/4"
34-24F-200	FINISH	2"
34-24F-225	FINISH	2-1/4"
34-24F-250	FINISH	2-1/2"
34-24F-400	FINISH	4"
34-24F-600	FINISH	6"
34-24A-100	ANGLE	3/4" TO 1-3/4"
34-24G-200	GRADE	2"
34-24G-400	GRADE	4"
34-24G-600	GRADE	6"

### ROUND RINGS 35" O.D. X 25" I.D. (889mm O.D. x 635mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
35-25F-075	FINISH	3/4"
35-25F-100	FINISH	1"
35-25F-125	FINISH	1-1/4"
35-25F-150	FINISH	1-1/2"
35-25F-175	FINISH	1-3/4"
35-25F-200	FINISH	2"
35-25F-225	FINISH	2-1/4"
35-25F-250	FINISH	2-1/2"
35-25F-400	FINISH	4"
35-25F-600	FINISH	6"
35-25A-100	ANGLE	3/4" TO 1-3/4"
35-25G-200	GRADE	2"
35-25G-400	GRADE	4"
35-25G-600	GRADE	6"

### ROUND RINGS 36" O.D. X 24" I.D. (914mm O.D. x 610mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
36-24F-075	FINISH	3/4"
36-24F-100	FINISH	1"
36-24F-125	FINISH	1-1/4"
36-24F-150	FINISH	1-1/2"
36-24F-175	FINISH	1-3/4"
36-24F-200	FINISH	2"
36-24F-225	FINISH	2-1/4"
36-24F-250	FINISH	2-1/2"
36-24F-400	FINISH	4"
36-24F-600	FINISH	6"
36-24A-100	ANGLE	3/4" TO 1-3/4"
36-24G-200	GRADE	2"
36-24G-400	GRADE	4"
36-24G-600	GRADE	6"

### ROUND RINGS 40" O.D. X 27" I.D. (1016mm O.D. x 686mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
40-27F-075	FINISH	3/4"
40-27F-100	FINISH	1"
40-27F-125	FINISH	1-1/4"
40-27F-150	FINISH	1-1/2"
40-27F-175	FINISH	1-3/4"
40-27F-200	FINISH	2"
40-27F-225	FINISH	2-1/4"
40-27F-250	FINISH	2-1/2"
40-27F-400	FINISH	4"
40-27F-600	FINISH	6"
40-27A-100	ANGLE	3/4" TO 1-3/4"
40-27G-200	GRADE	2"
40-27G-400	GRADE	4"
40-27G-600	GRADE	6"

### ROUND RINGS 40" O.D. X 31" I.D. (1016mm O.D. x 787mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
40-31F-075	FINISH	3/4"
40-31F-100	FINISH	1"
40-31F-125	FINISH	1-1/4"
40-31F-150	FINISH	1-1/2"
40-31F-175	FINISH	1-3/4"
40-31F-200	FINISH	2"
40-31F-225	FINISH	2-1/4"
40-31F-250	FINISH	2-1/2"
40-31F-400	FINISH	4"
40-31F-600	FINISH	6"
40-31A-100	ANGLE	3/4" TO 1-3/4"
40-31G-200	GRADE	2"
40-31G-400	GRADE	4"
40-31G-600	GRADE	6"

### ROUND RINGS 46" O.D. X 36" I.D. (1168mm O.D. x 914mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
46-36F-075	FINISH	3/4"
46-36F-100	FINISH	1"
46-36F-125	FINISH	1-1/4"
46-36F-150	FINISH	1-1/2"
46-36F-175	FINISH	1-3/4"
46-36F-200	FINISH	2"
46-36F-225	FINISH	2-1/4"
46-36F-250	FINISH	2-1/2"
46-36F-400	FINISH	4"
46-36F-600	FINISH	6"
46-36A-100	ANGLE	3/4" TO 1-3/4"
46-36G-200	GRADE	2"
46-36G-400	GRADE	4"
46-36G-600	GRADE	6"

### RECTANGULAR 36" I.D. X 24" I.D. (914mm I.D. x 610mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
RT 36-24-075	FLAT	3/4"
RT 36-24-100	FLAT	1"
RT 36-24-125	FLAT	1-1/4"
RT 36-24-150	FLAT	1-1/2"
RT 36-24-200	FLAT	2"
RT 36-24-300	FLAT	3"
RT 36-24-400	FLAT	4"
RT 36-24A1-2L	ANGLE (long)	1" TO 2"
RT 36-24A1-2S	ANGLE (short)	1" TO 2"

### RECTANGULAR 30" I.D. X 24" I.D. (762mm I.D. x 610mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
RT 30-24-075	FLAT	3/4"
RT 30-24-100	FLAT	1"
RT 30-24-125	FLAT	1-1/4"
RT 30-24-150	FLAT	1-1/2"
RT 30-24-200	FLAT	2"
RT 30-24-300	FLAT	3"
RT 30-24-400	FLAT	4"
RT 30-24A1-2L	ANGLE (long)	1" TO 2"
RT 30-24A1-2S	ANGLE (short)	1" TO 2"

### RECTANGULAR 24" I.D. X 20" I.D. (610mm I.D. x 508mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
RT 24-20-075	FLAT	3/4"
RT 24-20-100	FLAT	1"
RT 24-20-125	FLAT	1-1/4"
RT 24-20-150	FLAT	1-1/2"
RT 24-20-200	FLAT	2"
RT 24-20-300	FLAT	3"
RT 24-20-400	FLAT	4"
RT 24-20A1-2L	ANGLE (long)	1" TO 2"
RT 24-20A1-2S	ANGLE (short)	1" TO 2"

### SQUARE RINGS 30" I.D. X 30" I.D. (762mm I.D. x 762mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
SQ 30-30-075	FLAT	3/4"
SQ 30-30-100	FLAT	1"
SQ 30-30-125	FLAT	1-1/4"
SQ 30-30-150	FLAT	1-1/2"
SQ 30-30-200	FLAT	2"
SQ 30-30-300	FLAT	3"
SQ 30-30-400	FLAT	4"
SQ 30-30A1-2	ANGLE	1" TO 2"

### SQUARE RINGS 24" I.D. X 24" I.D. (610mm I.D. x 610mm I.D.)

PART NUMBER	RING TYPE	RING HEIGHT
SQ 24-24-075	FLAT	3/4"
SQ 24-24-100	FLAT	1"
SQ 24-24-125	FLAT	1-1/4"
SQ 24-24-150	FLAT	1-1/2"
SQ 24-24-200	FLAT	2"
SQ 24-24-300	FLAT	3"
SQ 24-24-400	FLAT	4"
SQ 24-24A1-2	ANGLE	1" TO 2"

#### RING HEIGHT METRIC CONVERSION:

1/4" = 6.35mm 1/2" = 12.7mm 3/4" = 19.05mm 1" = 25.4mm  
2" = 50.8mm 3" = 76.2mm 4" = 101.6mm 6" = 152.4mm



**CHECK OUT OUR VIDEO**





**BEFORE AND AFTER**



**BEFORE AND AFTER**



**INDEPENDENT SEWER  
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