



AUSTRALASIA  
MOULDING  
LTD



EXPERIENCE THE EVOLUTION OF MANHOLE TECHNOLOGY



# ABOUT US

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## COMPANY OVERVIEW

Globally, a trend towards the use of plastic pipe for waste water conveyance has seen infrastructure benefit from the inherent advantages that only plastic can offer. Logically, manhole chambers have followed suit allowing for a complete plastic network – efficient to install, and importantly durable.

**Australasia Moulding Ltd** is dedicated to bringing plastic manhole chamber technology from the seasoned development grounds of Europe, to our continent, allowing the benefits of this technology to be employed for the value of local infrastructure.

### What We Believe In

Utilising technology that is fit for purpose, and specifically designed to address the needs of the application, is core to what Australasia Moulding Ltd believes in. We understand the drive to achieve successful results and how this can be accomplished through employing streamlined processes, as well as using products that offer long term value. It is our goal to facilitate this success through making available proven technology which directly links with these needs.

In short, our core objective is to provide value to our customers by ensuring that they have access to the correct materials for the job.



*At Australasia Moulding Ltd we're proud to be associated with premium manufacturers who are focused on meeting their customer's needs by providing expertly designed and proven products. We are excited about what this brings to the New Zealand water market.*

*- Steve McDonald Managing Director*



# PLASTIC MANHOLE TECHNOLOGY

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## INHERENT BENEFITS FROM PROVEN TECHNOLOGY

*When working with durable pipe materials that are fast and easy to install, doesn't it make sense to utilise chambers that are designed with the same intent?*

### Proven

For over 30 years plastic manhole chambers have been in use in Europe, seeing sustained growth in adoption of the new technology. Nearly 100% of all Maintenance Chambers across Europe are now plastic. Even in traditionally conservative countries such as Germany and France, every 4th Manhole Chamber entering the ground is now made from plastic.

### Streamlined Installation

The benefits arising from constructing a pipe network with consistent design intent throughout are obvious. Not only will the best durability be attained this way but by using products that are designed to fit together the installation process is greatly simplified. With

plastic manhole technology the process of fitting pipes becomes child's play, with rubber-ring sealed sockets making 100% sealed pipe connections effortless.

### Better Results

The most economical approach to chamber maintenance is prevention, which means avoiding damage from the outset. Whilst the best intent is often applied, it is well understood that traditional concrete manhole chambers can fail, leading to infiltration of ground water. The consequences are far-reaching. To alleviate unjustified load on wastewater treatment facilities, remedial works not only result in significant cost, but also disruption to the service of the pipeline. In the case of infrastructure replacement, major disruption to services above the pipeline will almost certainly occur.



PLASTIC MANHOLE

PROVEN | STREAMLINED INSTALLATION |

Short-term economic thinking often overlooks the impact that infrastructure degradation can have in the future. A significant justification for the high adoption rate in Europe is due to the ability of a plastic manhole chamber to connect with a pipe to form a 100% sealed connection, eliminating infiltration of ground water, and importantly, exfiltration to the environment.

Another inherent advantage of plastic chambers is their low weight. At approximately 5% of the weight of an equivalently sized concrete chamber, there are huge benefits gained in handling and logistics. Furthermore, peace of mind can be ensured by mitigating safety risks at the worksite by having your people handling products that are in the 10's of kilograms, rather than the 1000's.

## Longer Life

Implementation of plastic manhole chambers has strong benefits from a life time durability perspective. Corrosion from H<sub>2</sub>S or acidic soils can have a significant impact on the life of concrete assets. However, risk associated with these problems is eliminated by the resistance provided by plastic chambers.

The polyolefin plastic used in the chambers has incredible toughness, flexibility, and impact resistance. This combination of properties ensures excellent resistance to damage during handling and installation, as well as long-term resistance to the effects of ground movement. Whilst brittle materials have their place, the benefits of tough ductile materials cannot be overlooked for subsurface chamber applications.

With these inherent advantages in mind it really does make sense to consider the application of plastic manhole chambers as the first choice for your wastewater projects.

TECHNOLOGY:

BETTER RESULTS | LONGER LIFE

# THE FEATURES AND ADVANTAGES OF PLASTIC MANHOLE CHAMBERS

## KEY FEATURES:

✓ **Perfect pipe connection**

Rubber ring sealed pipe sockets provide 100% sealed pipe joints

✓ **Class D 400**

Suitable for installation in roadways

✓ **Back-fill binding design**

Superior stability long-term

✓ **Complete corrosion resistance**

Corrosion resistant materials are used throughout the chamber assembly

✓ **Pre-benched**

Saves installation time, and extremely hydraulically efficient

✓ **Internally mounted ladder**

Non-slip, non-corrosion, and no through-holes to seal

✓ **Extensive range of benching options**

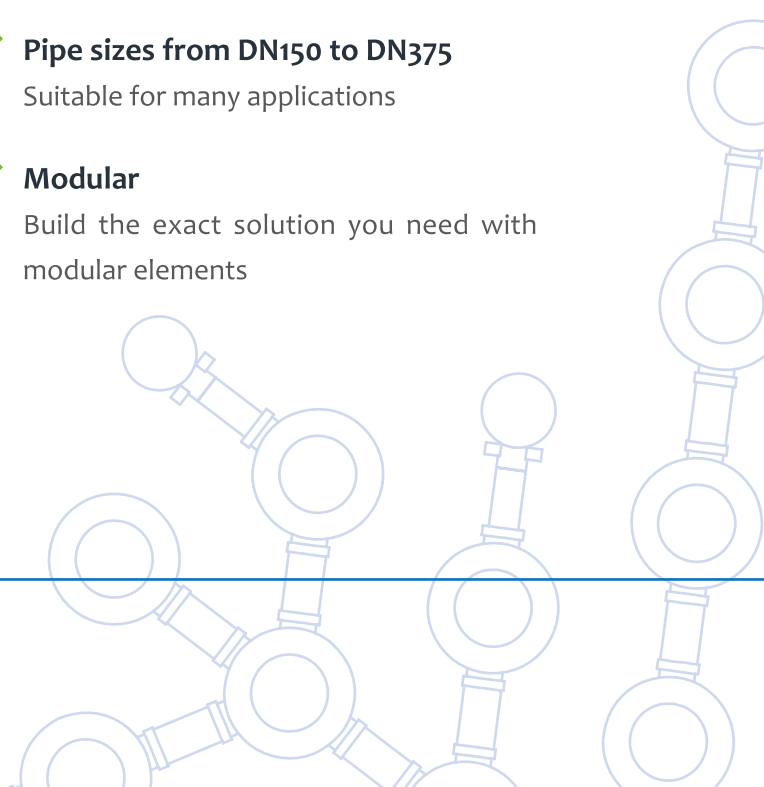
Straight through, all bend angles, or multiple entry

✓ **Pipe sizes from DN150 to DN375**

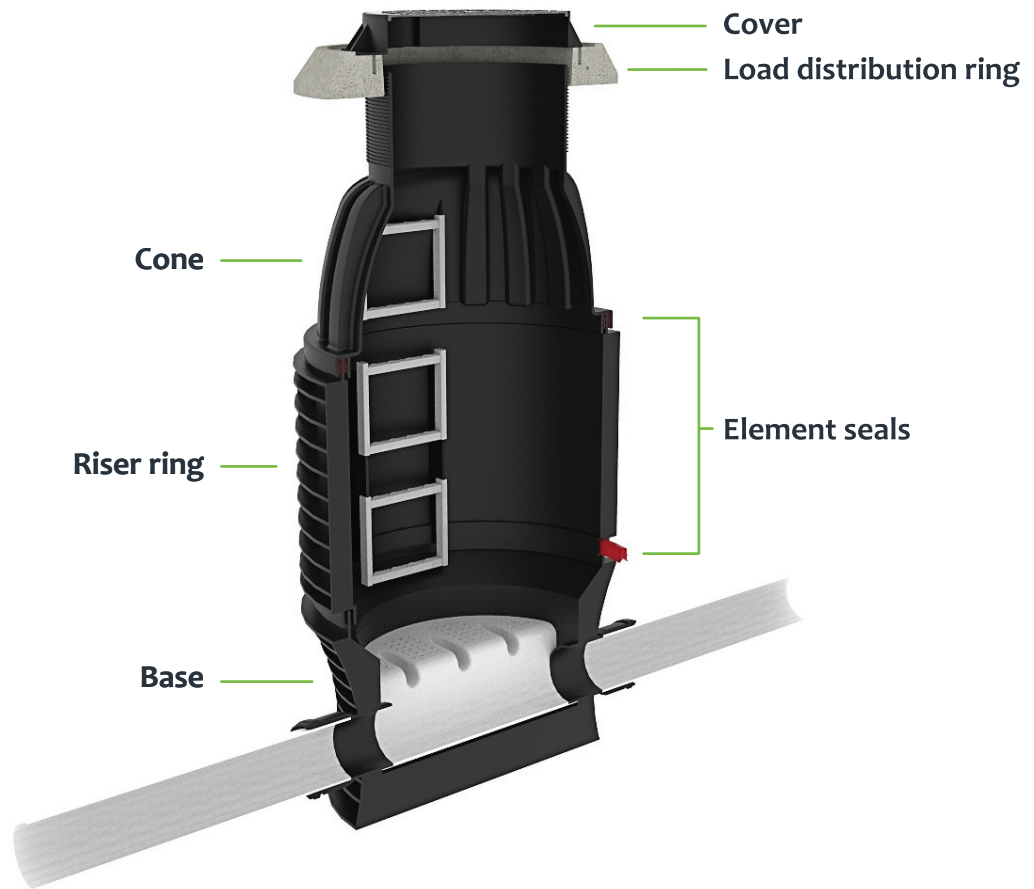
Suitable for many applications

✓ **Modular**

Build the exact solution you need with modular elements



## ELEMENTS:



*What is the real cost of a leaking system?*

- ⦿ Wastewater treatment effects
- ⦿ Environmental effects
- ⦿ Remedial costs
- ⦿ Ongoing servicing costs
- ⦿ Asset EOL decisions

Risk for all involved: Specification – Installation – Asset Ownership

**ROMOLD** has been the European pioneer for industrial manufactured plastic chambers for over 20 years. Many innovations, which are today state of the art, have been developed by the engineers and employees of ROMOLD.

In 1992, launching the first industrially produced plastic chambers into the German market was no less than a minor revolution. However, the benefits in practice were so great that this innovative product soon took off, making ROMOLD the European market leader for plastic chambers today.

With a history of over 1 million chamber parts sold, ROMOLD's exclusive focus on the plastic chamber segment has enabled them to develop a level of in-depth expertise that is second to none. This focus is core to their success.

Producing world-class products is the result of having expert engineers with a focus on the needs of their customer, having precision manufacturing capabilities dedicated to building quality into their products, and then backing up these capabilities with first-class customer support.



ROMOLD GmbH:

ENGINEERS | MANUFACTURERS | PIONEERS | MARKET LEADERS





The **Saint-Gobain** group is a French multi-national corporation with a 350 year history and now employing more than 185,000 people. They are a world industrial leader specialising in the production, processing and distribution of materials for industry and construction.

Saint-Gobain PAM are a part of the Construction Products Sector of the Saint-Gobain Group, and with a history dating back to 1856, they are recognised as the world's leading manufacturer and exporter of ductile iron product solutions.

For over 40 years Saint-Gobain PAM has drawn upon experience gained from the development of ductile iron pipe to produce a comprehensive range of ductile iron streetware, from manhole covers to storm water gratings.

Saint-Gobain PAM products are continuously in the lead with research based innovation making them the first choice for all professionals concerned with quality, durability, simplicity of installation, and maintenance.



SAINT-GOBAIN PAM:

DUCTILE IRON SPECIALISTS | INNOVATORS | CUSTOMER FOCUSED

# ROMOLD DN1000 MANHOLE CHAMBER

The **ROMOLD DN1000 Manhole Chamber** is the result of 30 years of plastic manhole chamber technology evolution and represents the peak of manhole technology.

With innovative design features throughout, the chamber is an engineered product intended to improve the performance of wastewater pipelines.

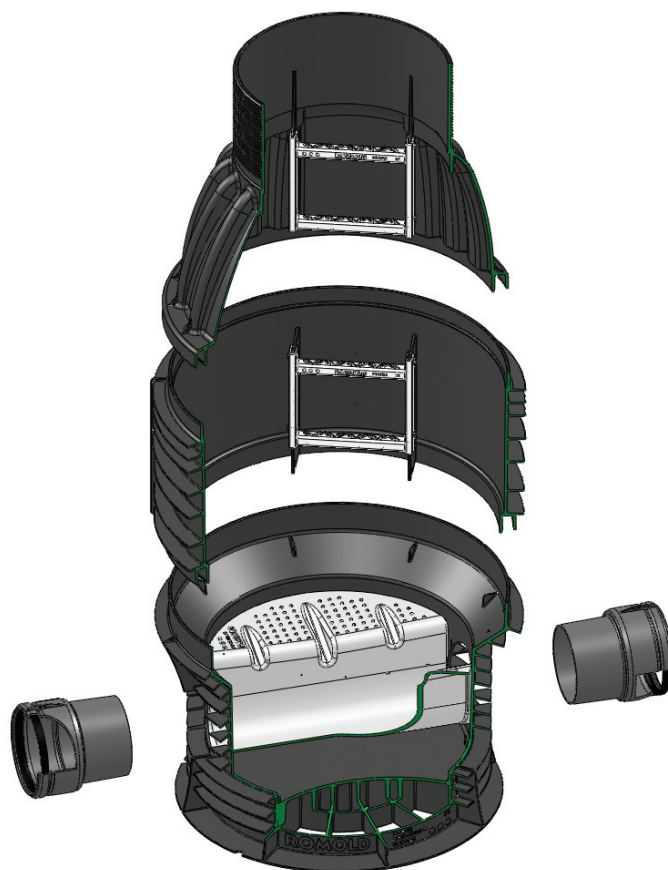
Made from injection moulded Polypropylene plastic, the chamber is a precision component which allows for excellent sealing characteristics. Only 100% virgin material is used in the manufacture of the chamber elements, ensuring that quality is attained in every moulding. This quality intent is backed up by all manufacturing being conducted within Europe in ISO 9001 facilities.

ROMOLD DN1000 Manhole Chambers are approved to EN 13598-2:2010 *Specifications for (Polypropylene and Polyethylene) manholes and inspection chambers in traffic areas and deep underground installations.*

The DN1000 Manhole Chamber is an accessible manhole chamber for inspection, maintenance, and pipe works. The chamber neck has a clear opening of 625mm.

## The chamber is suitable for the following applications:

- ⦿ Load applications up to and including Class D 400
- ⦿ Installation depths up to 6m
- ⦿ Plain wall PVC pipe according to AS/NZS 1260 and AS/NZS 1254, in sizes DN150, DN175, DN225, DN300 and DN375



PLASTIC MANHOLE

PROVEN | STREAMLINED INSTALLATION |

## STAND OUT FEATURES:

### **Benching & Berm**

Integrated white plastic full-pipe benching providing optimal hydraulic efficiency with non-slip berm.

### **Pipe Sockets**

Integrated inlet and outlet pipe sockets including rubber seals each providing +/- 3.75° flexibility.

### **Ladder**

Internally fixed white reinforced plastic non-slip ladder.

### **Modular Construction**

Extensive range of chamber elements to provide the optimal solution.

### **Element Seal**

Triple-Safety-Seal for robust sealing between chamber elements.

### **Adjustable Height**

Height adjustable to the nearest centimetre with simple hand tools.

### **Low Weight**

Individual chamber elements weigh between 15kg and 50kg.

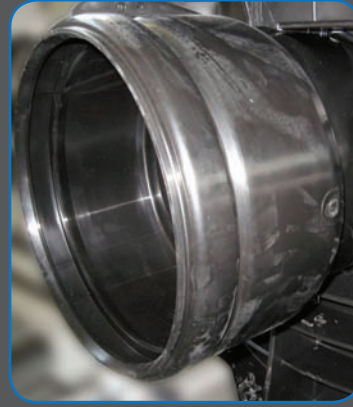
### **Flat Base**

Developed to provide a stable platform for levelling of the chamber base.

### **Deep Exterior Ribs**

Designed to bind with backfill material in order to provide long-term stability.

Only ROMOLD products offer this level of innovation and product function which is why they should be the first choice for your wastewater projects.



## TECHNOLOGY:

BETTER RESULTS | LONGER LIFE

# ROMOLD DN1000 MANHOLE CHAMBER ELEMENTS

The **ROMOLD DN1000 Manhole Chamber** is a modular assembly built from an extensive range of elements to provide the exact solution required for the application. Each element is designed specifically for purpose, and fits perfectly with the assembly to provide a seamless 100% sealed solution.

## Cone

The cone is common to all DN1000 chambers. With an overall height of 750mm, it has a clear opening of 625mm, and is height adjustable to the nearest centimetre over the 250mm neck height.



## Riser Ring

The Riser Ring elements come in four heights (250mm, 500mm, 750mm, and 1000mm) to allow the modular assembly to be perfectly specified for the depth required. Each Riser Ring includes a ladder component which combines with the ladder component in the Cone to provide safe access into the chamber.

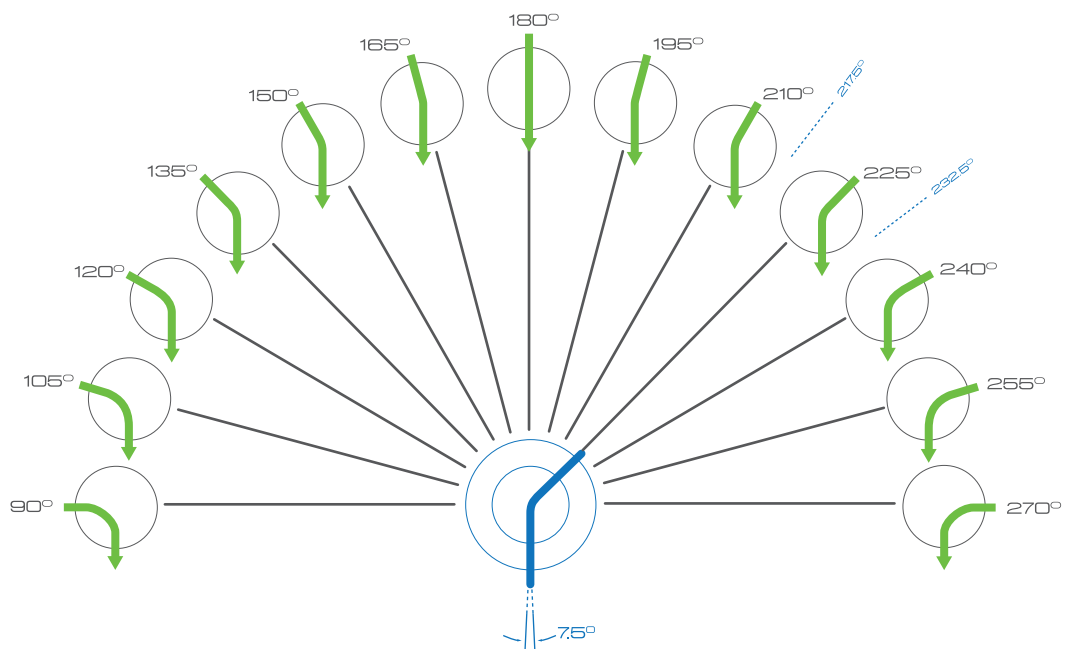


PLASTIC MANHOLE

PROVEN | STREAMLINED INSTALLATION |

## Base Options

Base options include single inlet straight channel, single inlet bended channel, and multiple inlet for DN150 to DN300 pipe sizes. Single inlet straight channel and single inlet bended channel is available for DN375 pipe. Bended channel bases offer all angles from 90° to 270°. Each base has pipe sockets with integrated rubber seals designed for easy and robust connection with PVC plain wall pipe. The design is common between bases and fits perfectly with the Riser Ring and Cone elements.



TECHNOLOGY:

BETTER RESULTS | LONGER LIFE

# ROMOLD DN625 MAINTENANCE CHAMBER

The **ROMOLD DN625 Maintenance Chamber** takes the performance benefits from plastic chamber technology and reduces cost by providing a simpler and more compact product.

With a modular assembly and a DN625 internal diameter, the non-accessible chamber provides simple, stable, and easy access for inspection and maintenance of pipelines by remote devices.

Made from rotationally moulded Polyethylene plastic, the chamber is a precision moulded component which allows for excellent sealing characteristics. Only 100% virgin material is used in the manufacture of the chamber elements, ensuring that quality is attained in every moulding. This quality intent is backed up by all manufacturing being conducted within Europe in ISO 9001 facilities.

ROMOLD DN625 Maintenance Chambers are approved to EN 13598-2:2010 *Specifications for (Polypropylene and Polyethylene) manholes and inspection chambers in traffic areas and deep underground installations.*

**The chamber is suitable for the following applications:**

- ⦿ Suitable for load applications up to and including Class D 400
- ⦿ Suitable for installation depths up to 3m
- ⦿ Suitable for plain wall PVC pipe according to AS/NZS 1260 and AS/NZS 1254 in sizes DN150, DN175, DN225, and DN300.



PLASTIC MANHOLE

PROVEN | STREAMLINED INSTALLATION |

## STAND OUT FEATURES:

### **Benching & Berm**

Moulded in plastic full-pipe benching providing optimal hydraulic efficiency.

### **Pipe Sockets**

Outlet pipe socket for rubber ring jointed pipe. Rubber inlet seals are applied to drilled holes providing +/- 5° flexibility.

### **Modular Construction**

A range of chamber bases and riser elements provide flexibility in design.

### **Element Seal**

Triple-Safety-Seal for robust sealing between chamber elements.

### **Adjustable Height**

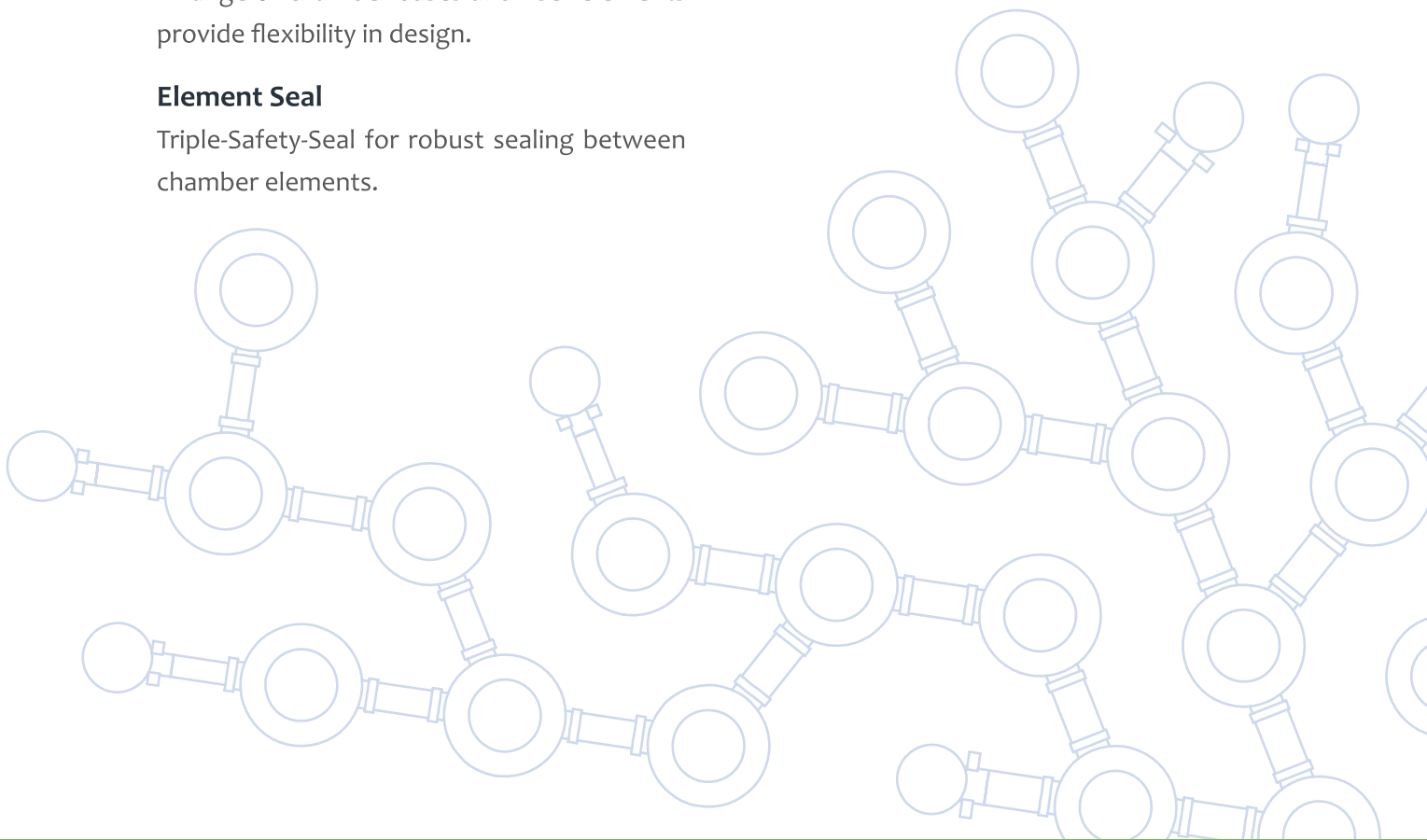
Height adjustable with simple hand tools.

### **Low Weight**

Individual chamber elements weigh between 10kg and 25kg.

### **Deep Exterior Ribs**

Designed to bind with backfill material in order to provide long-term stability.



Only ROMOLD products offer this level of innovation and product function which is why they should be the first choice for your wastewater projects.

## TECHNOLOGY:

BETTER RESULTS | LONGER LIFE

# ROMOLD DN625 MAINTENANCE CHAMBER ELEMENTS

The **ROMOLD DN625 Maintenance Chamber** is a modular assembly built from a range of elements to provide the best solution required for the application. Each element is designed specifically for purpose and fits perfectly with the assembly to provide a seamless 100% sealed solution.

The ROMOLD DN625 Maintenance Chamber is designed to be a simplified solution to reduce the costs of a pipeline whilst providing all the inherent benefits from a plastic chamber.

## Riser Ring

The Riser Ring elements come in three heights (400mm, 600mm, and 900mm) to allow the modular assembly to be perfectly specified for depth requirements up to 3m. Each Riser Ring can be joined with a Triple-Safety-Seal to produce a 100% sealed solution.



PLASTIC MANHOLE

PROVEN | STREAMLINED INSTALLATION |



## Base Options

Base options provide flexibility with the minimum number of components.

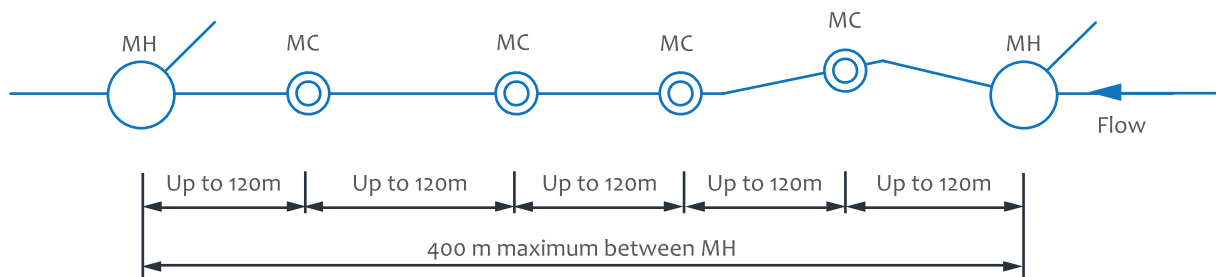
Bases suitable for DN150 pipe are available with 5 possible inlets at 45° spacing from 90° to 270°. Two heights are available, 900mm and 1200mm.

The Base suitable for DN175 pipe is available with 3 possible inlets at 90° spacing from 90° to 270°.

The Base suitable for DN225 and DN300 pipe is available with 3 possible inlets at 90° spacing from 90° to 270°. This base can be used for either pipe diameter.



*In accordance with NZS4404:2005 Land Development and Subdivision Engineering Standard, the DN625 Maintenance Chamber can be used to reduce the cost of a pipeline.*



TECHNOLOGY:

BETTER RESULTS | LONGER LIFE



# SAINT-GOBAIN PAM ACCESS COVERS

For more than 40 years, the **Saint-Gobain Municipal Casting** ranges have been drawing benefit from the unmatched qualities of ductile iron: impact strength, resistance to specific mechanical stresses, high breaking strength, and very high safety factors.

Thanks to the knowledge built up over years of design and casting experience, the latest generations of Saint-Gobain PAM manhole covers have been designed with many innovative performance features, as well as featuring unparalleled quality.

From Class B 125 to Class F 900, there is a Saint-Gobain PAM manhole cover solution for your every need.

CLASS D 400			
			
Pamrex	Korum	Olympio	Pamtight
CLASS F 900	CLASS C 250	CLASS B 125	
			
Urbamax	Paysage	Tek	

SAINT-

DUCTILE IRON SPECIALISTS |

## STAND OUT FEATURES:

### **Ductile Iron**

Ductile iron has superior impact and fatigue resistance due to its nodular graphite inclusions.

### **Spring Bar Technology**

An innovative locking mechanism integrated into the cover drawing upon the inherent benefits of ductile iron.

### **Anti-Theft Spline**

Superbly simple, the anti-theft spline prevents the cover from being extracted and stolen.

### **Anti-Intrusion Lock**

Available as an accessory, the anti-intrusion lock provides added reassurance that manhole covers will not be lifted without the proper tools.

### **High-Performance Sealing**

With a dedicated elastomer sealing ring, the PAMTIGHT cover prevents ingress or surcharge of water up to a 1 bar positive or negative pressure rating.

### **Ergonomic Lifting**

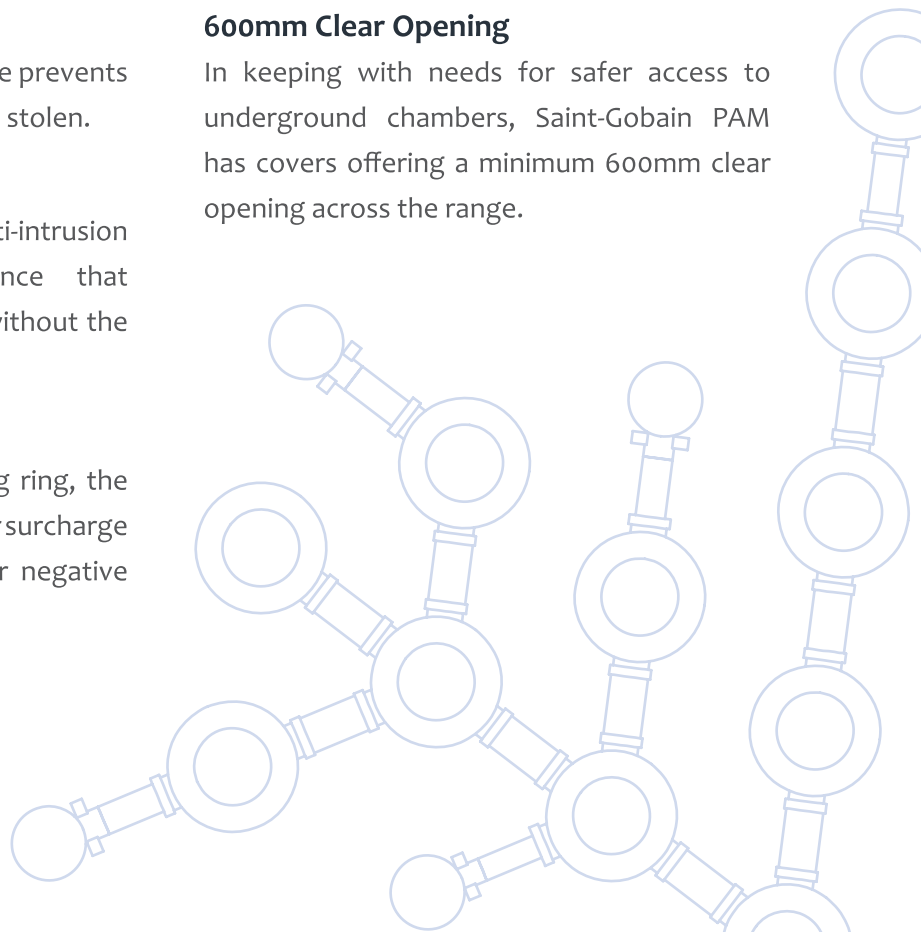
Hinged covers and innovative design, in combination with a lifting bar, remove lifting strain from your back.

### **Drop & Lock Covers**

Further improving safety, the manhole cover drops into place when opened, ensuring that it will not close accidentally.

### **600mm Clear Opening**

In keeping with needs for safer access to underground chambers, Saint-Gobain PAM has covers offering a minimum 600mm clear opening across the range.



**Saint-Gobain PAM manhole covers offer superior performance through many innovative design features and unparalleled quality, considerations which should be at the forefront of any design specification.**

SAINT-GOBAIN PAM:

INNOVATORS | CUSTOMER FOCUSED

## ALSO BY ROMOLD

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The innovation from **ROMOLD** does not stop at manhole chambers. Industry experience combined with design and manufacturing strengths has led to the development of further products that improve upon existing offerings in the sub-surface chamber market.

### Gully Traps

ROMOLD's range of Gully Traps utilise the inherent advantages of plastic to make products that are perfectly suited to storm water applications when using plastic pipe networks.

Designed to be lightweight, robust, as well as quick and easy to install the ROMOLD road gully products can help to achieve better results, faster, and with less cost.

With more than 150,000 road gullies installed across Europe, the benefits of ROMOLD's designs have been proven time and time again.





### Electrical Chambers

ROMOLD's range of Electrical Chambers borrows from design philosophy learned from their range of manhole chambers.

Utilising rubber seals to form leak proof connections with plastic pipe conduit, it is possible to attain electrical connections safe from water ingress. When you add in the benefits of lightweight product handling and installation, easily worked materials, and the durability of 100 years, you have a robust solution with many advantages.



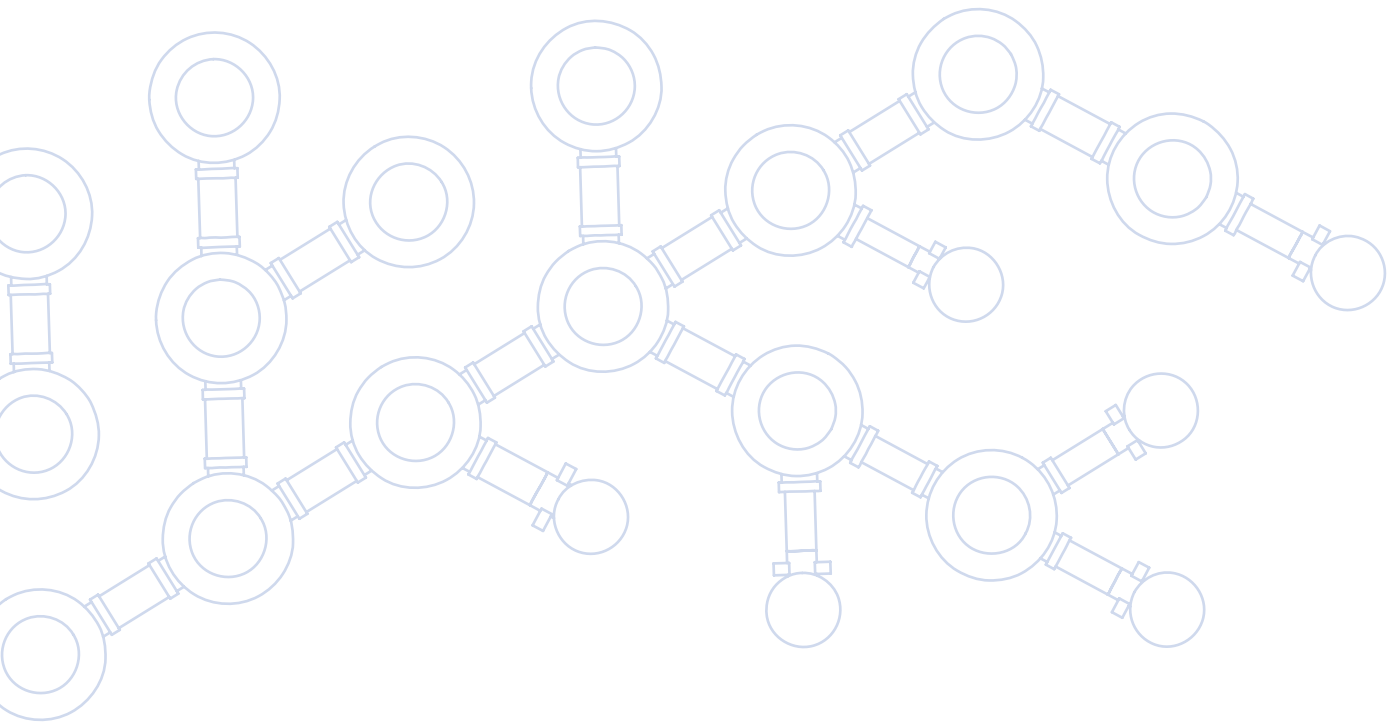
For more information on any of these product solutions please contact us.

# IN CLOSING

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At **Australasia Moulding Ltd** our focus is firmly on meeting our customer's needs. We do this not only by marketing European products with a technology advantage, but also by listening to our customer's needs and providing results that meet with expectation.

If you have an interest in the environment, work-site safety, improving installation processes or would like to move to better performing technology for long-term value, then we welcome your contact. It is our intention that you won't be left disappointed by the results that we can provide.



## PLASTIC MANHOLE TECHNOLOGY:

PROVEN | STREAMLINED INSTALLATION | BETTER RESULTS | LONGER LIFE

## ROMOLD GmbH:

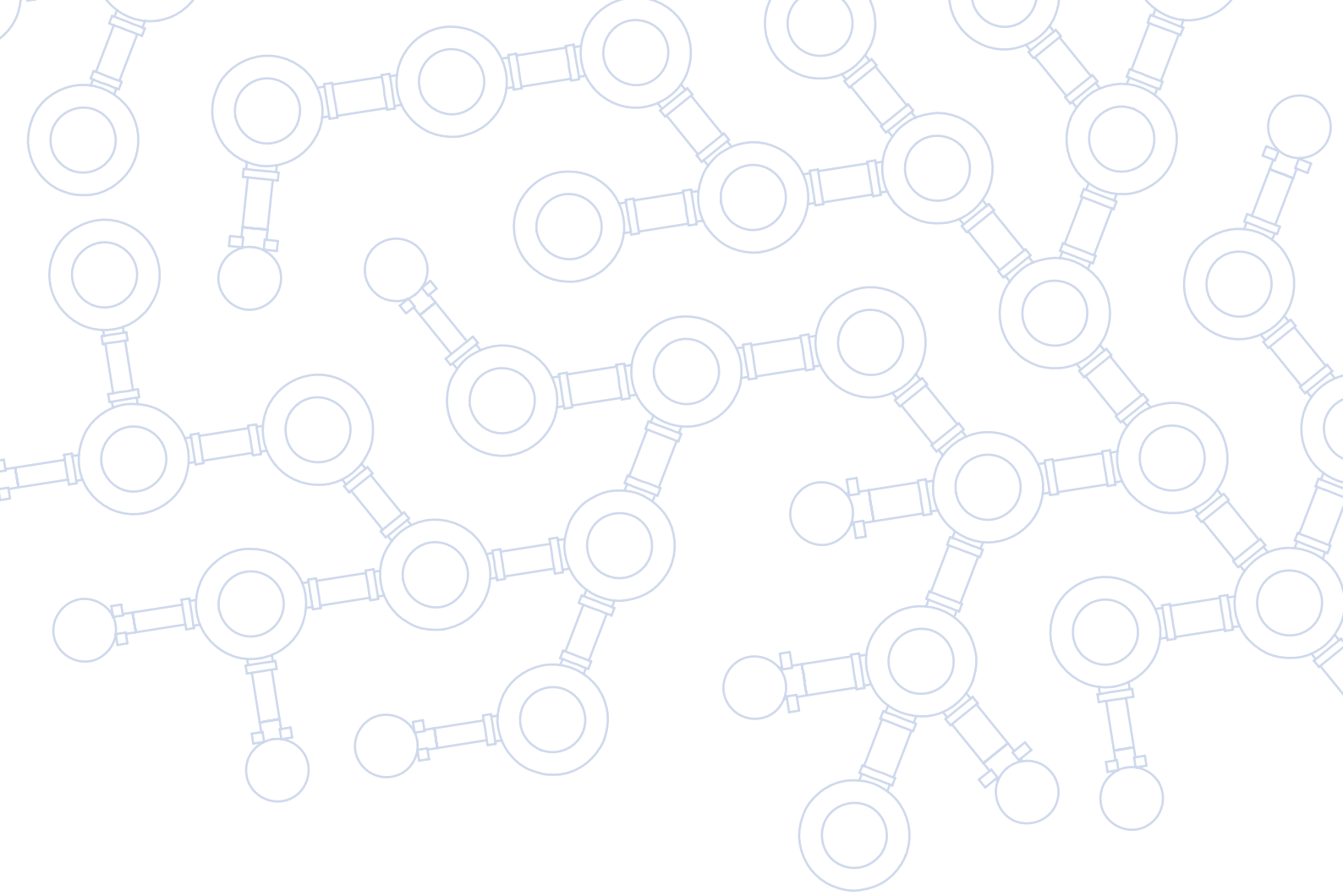
ENGINEERS | MANUFACTURERS | PIONEERS | MARKET LEADERS

## SAINT-GOBAIN PAM:

DUCTILE IRON SPECIALISTS | INNOVATORS | CUSTOMER FOCUSED

# NOTES

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We welcome your contact for further information regarding ROMOLD or Saint-Gobain PAM products.

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