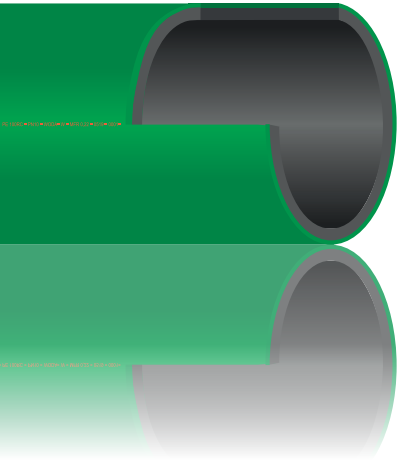
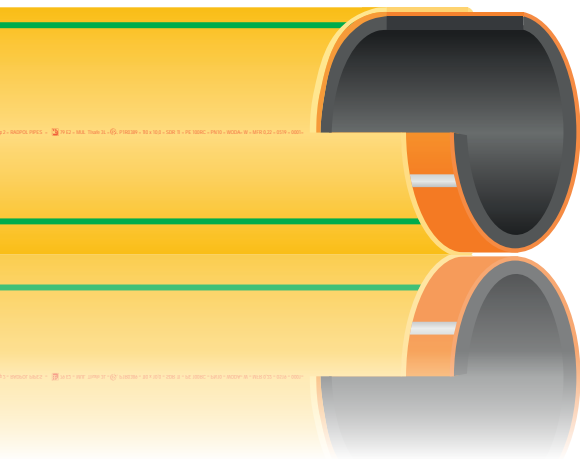
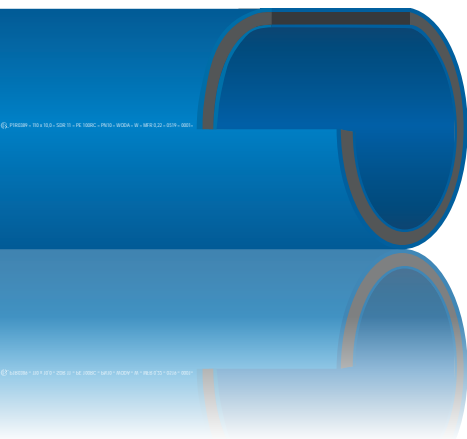


# **RADPOL** **PIPES**



RC MULTIsafe<sup>®</sup>

RC MAXIprotect<sup>®</sup> PP/PE

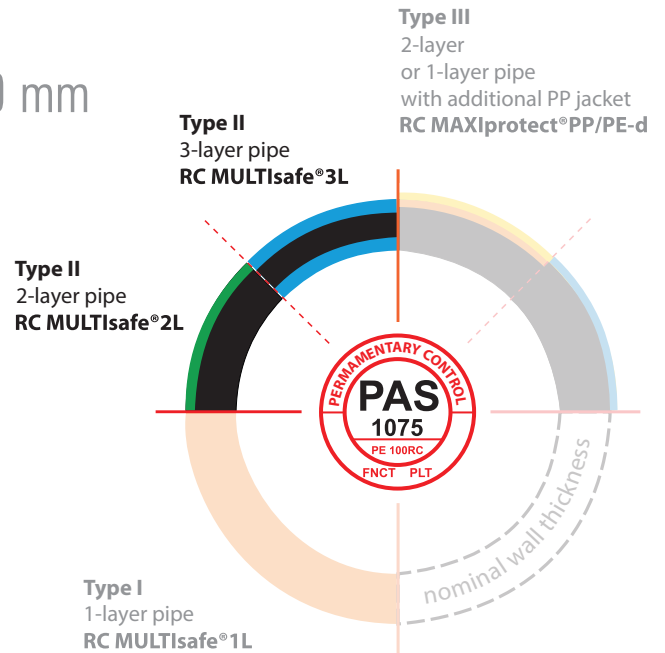
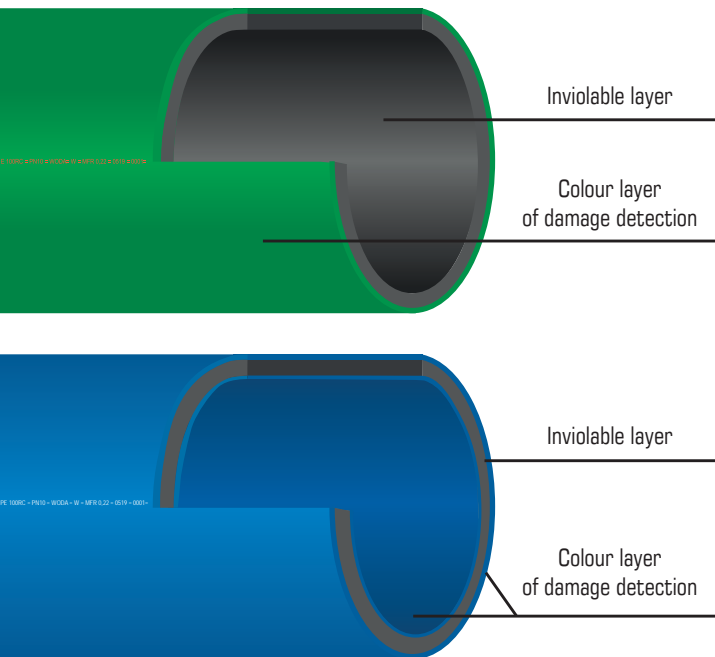


- Durability
- Reliability
- Low installation costs
- Irreplaceable in trenchless technologies

Gas, Water, Sewage, Irrigation, Drainage, Renovation

# RC MULTIsafe®

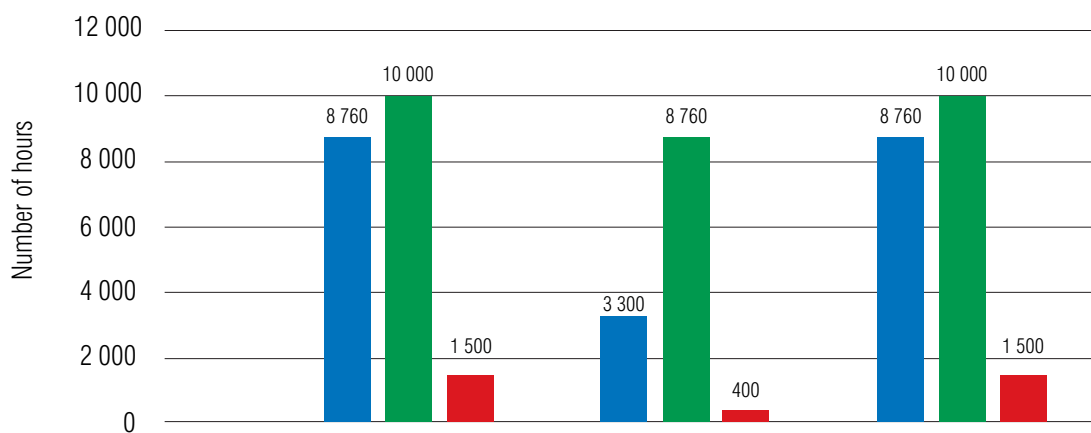
## 2L DN25-1000 mm and 3L DN90-630 mm



### Advantages:

- Resistant to slow crack propagation.
- Resistant to point loads.
- For laying in fine native soil without sand bedding or sand backfilling.
- Immediate identification of damages through coloured layers construction.
- Recommended for trenchless technologies.
- Approved for squeezing.
- Predicted technical maintenance of the pipeline: over 100 years.

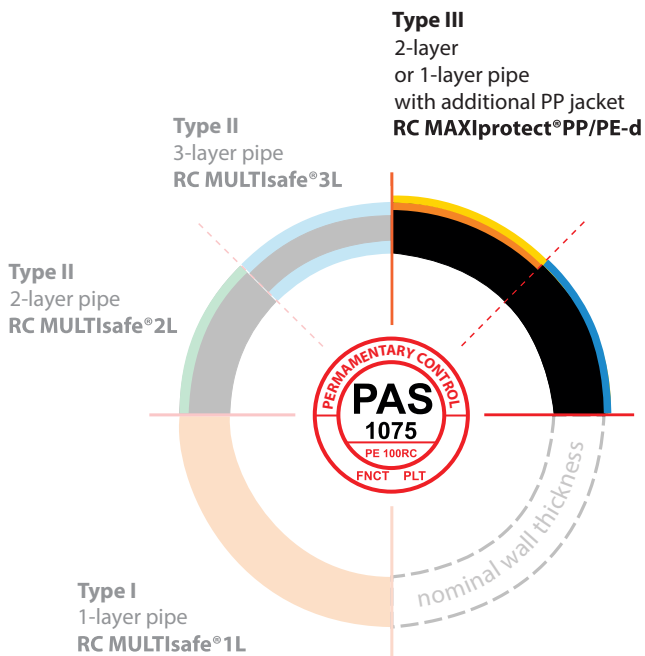
## Test results, according to the guidelines PAS 1075:2009.04, obtained on RC MULTIsafe® pipes



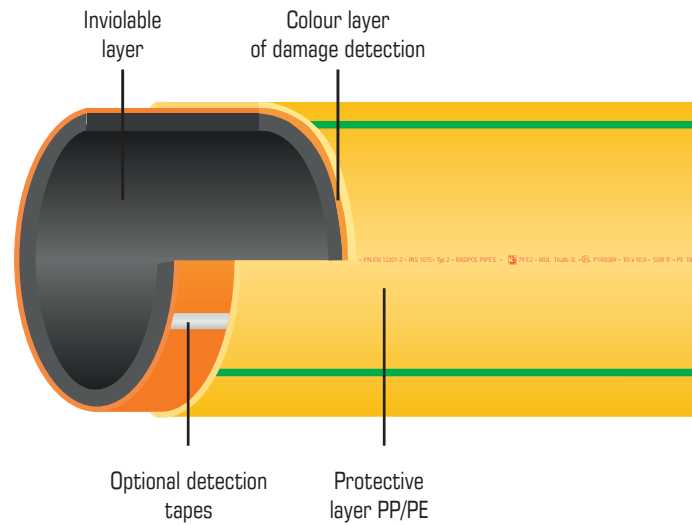
	Notch test	FNCT/ACT	PLT (test Hessel'a)
Normative requirements	8 760	3 300	8 760
RC MULTIsafe®	10 000	8 760	10 000
PE100	1 500	400	1 500



ISO9001:2015  
ISO14001:2015  
BS OHSAS 18001:2007



# RC MAXIprotect® PP/PE 2L DN25-630 mm



## Advantages:

- Full functionality of multilayer RC pipes with additional PP protection layer.
- Resistant to damages, scratches with carrier pipe full protection.
- Resistant to point loads.
- For laying in any native soil, including gravel and without sand bedding or sand backfilling.
- Immediate damage identification through coloured layers construction.
- Particularly recommended for all trenchless technologies (e.g. HDD) and for static and dynamic renovation methods (e.g. Cracking, Burstlining).
- For narrow trench paving (ploughing with milling - rocky soils, hardened surfaces).
- Butt-welding without removing the PP layer.
- Predicted technical maintenance of the pipeline: over 100 years.

### Modernisation of a sewage collector in Vilnius, Lithuania

Vilnius is not only beautiful Baroque buildings, charming streets of the Old Town and a history dating back centuries. Vilnius is also a city of modern urban architecture and a dynamically developing metropolis. The capital of Lithuania modernizes its sewage system using Radpol Pipes pipe systems.

The steel collector, which has already been bitten by a tooth in the past, has already been renovated with GRP pipes. Unfortunately, the number of leaks in the system increased with the passing of time. This resulted in the decision to renovate the collector using the latest pipe technologies. This time it was decided to use the PEHD RC MULTIsafe® 2L DN710 SDR17 method. Radpol Pipes supplied over 1.5 km of pipes to the Lithuanian capital.



### Trenchless renovation of the water supply system in Poznań, Poland

Rataje Roundabout in Poznań is one of main traffic junctions in the Rataje district and connects the crossing of the Warta River with large residential estates in the Rataje district and the exit road in the direction of Katowice to the A2 Motorway. The contractor used the relining method of pulling the RC MAXIprotect® PP protection layer pipe DN450 SDR 17 into an existing water supply pipeline.



## FAQ

### 1. Why to use PE100 RC pipes instead of regular PE100 pipes?

RC pipes are made of "Resistance to Crack" raw material which makes them significantly resistant to crack propagation. Scratched, punctured, "damaged" pipeline, being under pressure, may be safely exploited. Scratches and cracks in RC pipes will not increase and will not turn into failures.

### 2. Why to use multilayer RC pipes?

Layers applied to RC 2L pipes give immediate visual supervision of the pipe surface. External layer of a thickness of 10% of total wall thickness, allow notice any damages made during storage, transport and assembly. Any scratches deeper than 10% of wall thickness are immediately visible by the use of black internal layer.

The non-black inner layer (for RC 3L pipes) allows visual detection of external stresses points (e.g. from sharp stones or after cracking) being visible from the inside of the pipe (TV inspection).

### 3. How to recognize the PE100 RC pipes?

The easiest way is to investigate, check, the producer and it's product in compliance to Publicly Available Standard 1075 (PAS1075).

### 4. How to verify a supplier in compliance with PAS1075 certificates?

The easiest way to verify supplier is to obtain a certificate for a specific pipe type. Certificates are available on the website of the certification body i.e: [www.dincertco.tuv.com](http://www.dincertco.tuv.com)

### 5. Is it possible to connect PE100 RC pipes to standard PE100 pipes?

PE100 RC pipes have features and physical characteristic that allow easy standard butt fusion welding (or electrofusion welding) to existing PE100 pipelines.

### 6. Is it safe to squeeze PE RC pipes?

Radpol Pipes RC MULTIsafe® 2L and 3L® pipes are suitable for the use of squeezing tools in repairs and services in order to close the flow inside the pipe.

### 7. Does the storage and transport differ from the requirements for PE100 pipe?

It should be mentioned that all minor scratches and damages of PE RC pipes in no way diminish their properties. PE100 pipes should not have such a scratches or damages.

Special raw material used by Radpol Pipes for production of RC MULTIsafe® 2L and 3L pipes protects pipes against loss of their properties even in case of minor damages. RC MAXIprotect® PP pipes with additional PP protection layer have a RC inline pipe completely isolated from external conditions and the PP layer is used to take over all strong damages, cracks keeping the RC pipe untouched.

Radpol Pipes has introduced wrapping the coils of small dimensions of RC MULTIsafe® 2L, 3L pipes in foil that additionally prevents any damage, dirt and allows to cut off any length of the coils without unwinding the coil.

## The most popular applications of RC pipes:

### Laying without sand bedding and sand backfilling



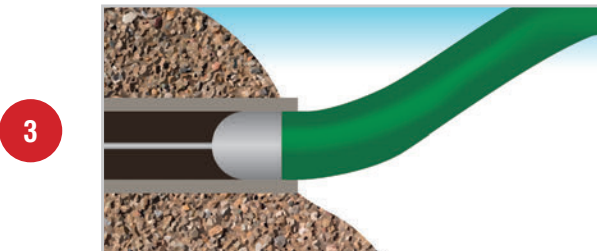
Recommended RC MULTIsafe® 2L and 3L pipes

### Controlled drilling (HDD)



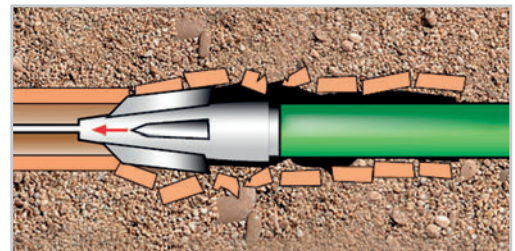
Recommended RC MULTIsafe® 3L and RC MAXIprotect® PP pipes

### Relining



Recommended RC MULTIsafe® 2L and 3L pipes

### Burstlining & Cracking



Recommended RC MAXIprotect® PP pipes