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ROMOLD

Romold Prefabricated Polyethylene (PE) sewerage manhole chambers

Romold is a leading manufacturer of prefabricated PE manhole chambers with over 20 years of experience throughout Europe and recently in India. Romold is headquartered in Germany with manufacturing facilities in Europe, Israel and Mauritius. We are very pleased to share with you that a brand new plant is being built in India (Gujarat) for the manufacture of Romold manholes for the Indian market.

Romold manholes, designed as per the latest and most comprehensive European standards, have a proven track record with many advantages over conventional brick or concrete manholes:

VALUE – TOTAL COST OF OWNERSHIP

The most cost-effective and efficient maintenance of sewerage manhole system is prevention and avoiding damage from the start. According to a study by the German Institute for Underground Infrastructure (IKT) based on regional examinations, approximately 50% of all concrete chambers already start leaking after installation. In 2004, the repair expenditure for Germany was estimated to be 55 billion Euros. 30-50% of the German sewer networks require repair work (Source: DWA survey 2004).

The consequences above leaks/damages are far-reaching: interruptions to the infrastructure caused by additional construction work, penetrating groundwater places a burden on the sewage system; leaking sewerage pollutes the groundwater wreaking environmental damage.

Romold prefabricated PE manhole chambers are built to address all of the above challenges.

DURABILITY

With its lifespan of at least 50 years, the Romold PE manhole chamber is far superior to traditional systems. Romold products are simply indestructible.

Once installed Romold products react flexibly to any earth movements or subsidence (elongation at break > 200%). Therefore ruptures are excluded. In comparison sewerage manholes made out of rigid materials such as concrete or brick develops cracks with settling. Romold system also avoids damage caused by tree roots.



FAST, EASY AND SAFE INSTALLATION

Romold prefabricated products are compatible with all common pipe systems and can be installed very rapidly with simple steps. On trial installation in India it was observed that Romold manhole could be installed in hours whereas a brick/concrete system in days or sometimes weeks depending on site conditions.

On average, plastic components weigh around 5% of their concrete counterparts. This simplifies the entire process of handling, transportation and installation, as no heavy lifting equipment is required – an enormous benefit when working in tight spaces or on difficult terrain.

Romold PE chambers not only enable the clients to dramatically reduce project time line but is also safe for the public as road blockages, trenches and need for heavy equipment is reduced dramatically.

FLEXIBILITY

Romold prefabricated product heights can easily be adjusted on site and more importantly pipe connection along base benching or anywhere on the body of the manhole can be done in 1-2 minutes with a simple drill and Romold EN 681-1 certified inlet seal without the need for any solution, curing or adhesive. This connection is water tight even if the pipe bends or moves in any direction.

Further using the same steps as above additional inlet pipes can be connected/added at a later time in minutes giving extreme flexibility in the long term also.

100% WATERTIGHT

Romold products are absolutely watertight – all components are inspected with respect to the inner and outer pressure (0.5 bar). Therefore damage caused by leaks can be excluded.

CORROSION RESISTANCE/H₂S PROBLEM

Romold chambers are particularly resistant to aggressive chemicals. Therefore corrosion caused by hydrogen sulphide (H₂S) can be excluded. Conventional concrete or brick based manhole chambers develop severe corrosion in a short period of time leading to leaks and expensive renovation.



ENVIRONMENT

Being leak proof, Romold PE chamber systems prevents any ex-filtration of waste water thus preventing environmental damage to neighboring drinking groundwater and ecosystem. Another major advantage is that Romold system also prevents infiltration of water into sewage network thus reducing load on sewage treatment plant -- saving cost and precious groundwater. Romold PE system has much lower Carbon Footprint than corresponding conventional system.

ECONOMIC SEWER NETWORK PLANNING

Romold has a complete range of sewerage manhole chambers --DN1000/DN800/DN600/DN500 ranging in height from 300mm to over 6M-- which enables project planners to build an economical, leak proof, long lasting and low maintenance sewerage network.

CONSISTENT QUALITY - ENTIRE PROJECT

Romold prefabricated PE manholes are machine manufactured as per leading international standards. This means for entire project each and every manhole is of the same precise quality and does not vary based on site conditions or personnel skills.

SUMMARY

Prefabricated Romold chambers are the best alternative to traditional chambers both from a quality and economic point of view. Romold PE system outshines the conventional system in -- durability, sturdiness, maintenance, safe and fast installation and environmental impact.

Optimal product range enables planners to implement an economical and long lasting sewerage system in a timely manner.

