Complete your Pipelife system with the unrivalled combination of strength and lightness.
10 good reasons why to complete your manhole or chamber system with composite covers and grates

A considerable part of our service to you is making sure you have the best system solutions available at hand - from top to bottom, or in this case: from bottom to top. We have added Composite Covers and Grates to top your pipe and chamber system as we believe they better match today’s as well as tomorrow’s requirements in many ways. Creating a safer, more sustainable environment for all of us often requires rethinking concepts, traditions, and habits. See if the following 10 reasons convince you to do so, too:

**STRENGTH AND DURABILITY MEET LIGHTNESS AND EASE OF INSTALLATION**

Opt for easier, safer installation and save on manpower as well as equipment without compromising strength and durability. All of Pipelife’s composite covers and grates are produced to EN 124 standards and are designed to meet load classes A15 (1.5 tons) to D400 (40 tons). Despite their strength, they are about 35% lighter than traditional products which makes them exceptionally easy and safe to handle.

**UNRIVALLED CORROSION RESISTANCE AND LIFESPAN**

Increase your return on investment and lower maintenance costs with better resistance and a lifespan of at least 40 years. Not only do our composite covers and grates have a superior lifespan compared to traditional products, they also require less maintenance. Their unrivalled corrosion resistance makes them an ideal solution for corrosive environments (hydrogen sulfide as found in sewers, deicers, UV light, etc.) – no jammed lids due to rust, no loss of aesthetics.

**THESE COVERS AND GRATES STAY PUT**

No theft, no safety hazards, no replacement costs. Rest assured your covers and grates stay just where they are supposed to be. The material’s zero scrap value offers zero benefit to scrap hunters. Other than traditional lids, composite covers and grates are screwed in place and lie flat during their complete service life – truck tires will not spin them out of place.

**SHHHH... DO YOU HEAR SOMETHING?**

Put an end to the infamous clunk noise from traffic rolling over manhole or chamber covers. Thanks to accuracy in size and fit, no bending or warping over time, and insensitivity to high as well as low temperatures (almost no thermal expansion), composite covers and grates will not draw unwanted attention to themselves.

**PROTECT ODOR SENSITIVE AREAS**

Protect densely populated and recreational areas, hotel premises, etc. from odor nuisances utilizing a sealed system. Rubber sealing rings make sure that nothing goes into the system and that nothing comes out.

**ENVIRONMENTAL SUSTAINABILITY**

Move toward a circular economy by opting for recyclable materials and support switching to a low carbon future. Pipelife’s composite covers and grates are produced with an inferior carbon footprint and have a 400-800% longer lifecycle compared to traditional lids. The composite material is moreover fully recyclable.
UNIQUE AESTHETICS
MADE TO LAST

Give your project a look that lasts for decades. It needs to be purposeful or even unique? – Customize utility type, add your town’s emblem, a logo, or choose a different color either to blend in or to highlight the covers. All our composite covers and grates have an integral anti-slip surface. They are self-pigmented and do not need to be painted, yet can be. Thanks to their UV and corrosion resistance they will not weather, fade or crack over time. Customization regarding coloring (standard is black), service type (e.g. gas, water, etc.), and logo (e.g. city emblem) is possible upon request.

REDUCE INFLOW AND CONTAMINATION

Keep water and wastewater systems free of excess waters and contaminants from traffic or service station forecourts. All our composite covers, grates and frames are produced with minimal tolerances and under controlled manufacturing conditions. They are moreover installed to fit tightly whereas traditional lids have a loose fit. An optional rubber ring makes sure the manhole or chamber is actually sealed.

READY FOR SMARTER CITIES

Our future cities are smart – with composite covers, your project complies with smart technologies such as metering, monitoring and tracking. Contrary to traditional covers composites are permeable to electromagnetic waves. Signals from metering, monitoring and tracking devices are not dispersed, nor is additional equipment for signal reinforcement necessary.

ON THE SAFE SIDE

Eliminate safety hazards and contribute to a safer environment. Pipelite’s composite lids ensure safer installation and safer roads (as they are not likely to be removed). Being non-metallic, they are non-conductive and have a high ignition resistance. This means electrified manhole covers from stray voltage and ignition sparks at petrol stations are not an issue.
Where to apply composite covers and grates

Complete your Pipelife systems with matching quality

We have topped up our product range with composite covers and grates so you can top off your sewer or drainage pipe system with matching resistance and a long life-span. Our covers and grates are applied in public as well as private spaces to cover or seal inspection and access chambers, manholes, and gullies, of water, sewage, telecommunication, and electro utilities.

Application by traffic load

All of Pipelife’s covers, grates and frames are produced to EN 124 standards. Products are available to accommodate A15 (1.5 tons) to D400 (40 tons) vertical traffic loads as defined by European norm EN 1433.

**Class A (15 kN test load)**
Areas used by pedestrians and cyclists – pedestrian zones, sidewalks, gardens, patios, etc.

**Class B (125 kN test load)**
Sidewalks, car parking lots and parking decks

**Class C (250 kN test load)**
Car parks, forecourts, curb sides, highway shoulders

**Class D (400 kN test load)**
Carriageways of roads and highways trafficked by all types of road vehicles
Quality and production

We have put them to the test for you

All Pipelife composite covers, frames and grates are produced in accordance with EN 124-1:2015 and EN 124-5:2015 standards and are stringently tested to assure their promised high quality in service. Under severe loading, our composite lids show no signs of permanent deformation and do not break like traditional materials. In other words, due to their proven high structural integrity they will not fail when other materials do.

GRP composite – what is this?

You would like to know why this light product can be so strong and resistant?

Material science demystified:

The composite material used for Pipelife’s covers, grates and frames is a durable, high-performance thermoset plastic manufactured with state-of-the-art molding technology. Raw materials such as chopped glass fibers, polyester resin, catalysts, pigments and stabilizers are compressed and heated in molds to produce a uniform, highly compact and void-free bond of materials. The result combines the particularly favorable properties of each of its components. While glass fiber is used for its inherent tear strength, polyester resin envelopes all other raw material providing for corrosion resistance. By altering the proportion of glass fiber to plastic resin, GRP composites are manufactured to perfectly suit their designated purpose.

Unrivalled corrosion resistance

Load test of a composite cover

Proven reliable strength

Tested and certified to EN 124 by the RENAR accredited Research Center and Laboratory of SC COS Targoviste SA
## Manhole and Inspection Chambers
### Covers & Grates | ROUND

### Class B125

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*available with vents  **available with sealing ring and/or vents

## Manhole and Inspection Chambers
### Covers | SQUARE

### Class A15, B125

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Inspection Chamber Covers for Pipes DN 400 / DN 325

**Class A15, B125, D400**

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*available with vents

Inspection Chamber Grates for Pipes DN 400 / DN 325 / DN 315

**Class B125**

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EXAMPLE OF A COMPOSITE COVER TOPPING A PRO MANHOLE

- Composite cover
- Support ring
- PRO Manhole 1000/800
Complete your Pipelife system today and contact:

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E info@pipelife.com
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