

Composite Covers & Grates

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:**

01 **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.

02 **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.

03 **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.

04 **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.

05 **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.



06 **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. Pipelife’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.

COMPOSITE COVERS AND GRATES COMPLEMENT:

PRO Inspection Chambers and Manholes

Pragma® Pipe Systems

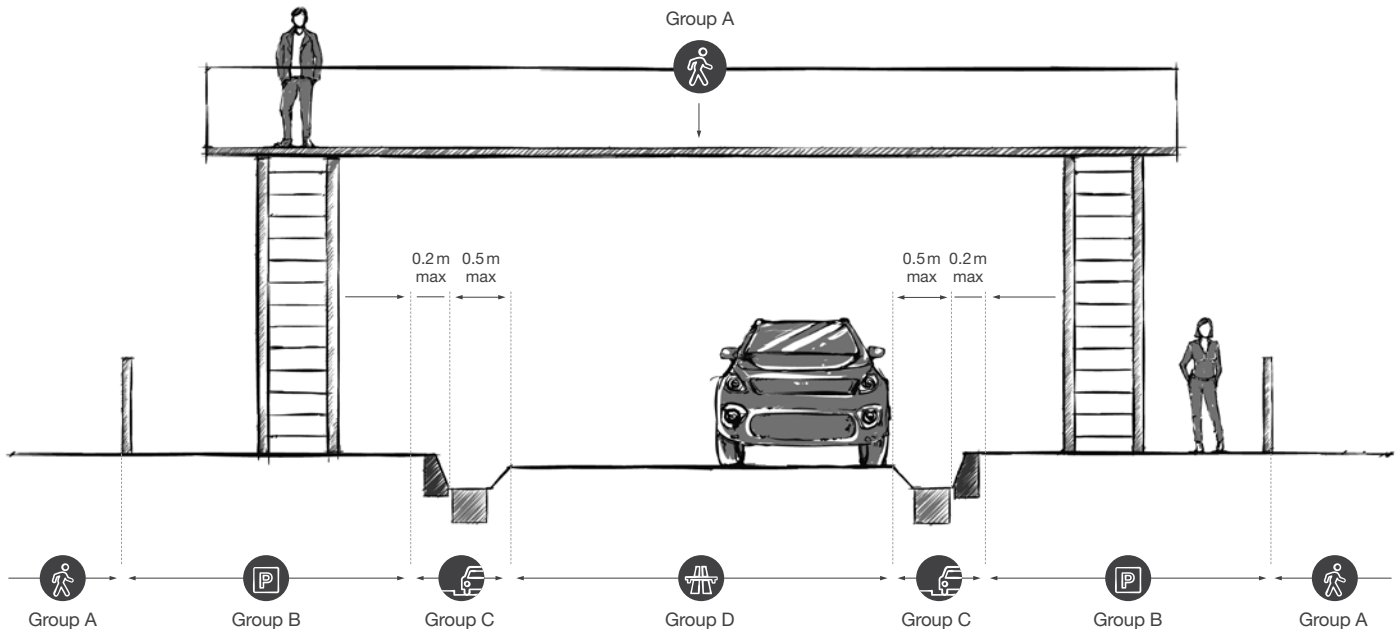
Smooth Pipe Systems

Eco System products:

Cleanbox Oil

Cleanbox SBR

Propump



Class A (15 kN test load)

Areas used by pedestrians and cyclists – pedestrian zones, sidewalks, gardens, patios, etc.



Class C (250 kN test load)

Car parks, forecourts, curb sides, highway shoulders



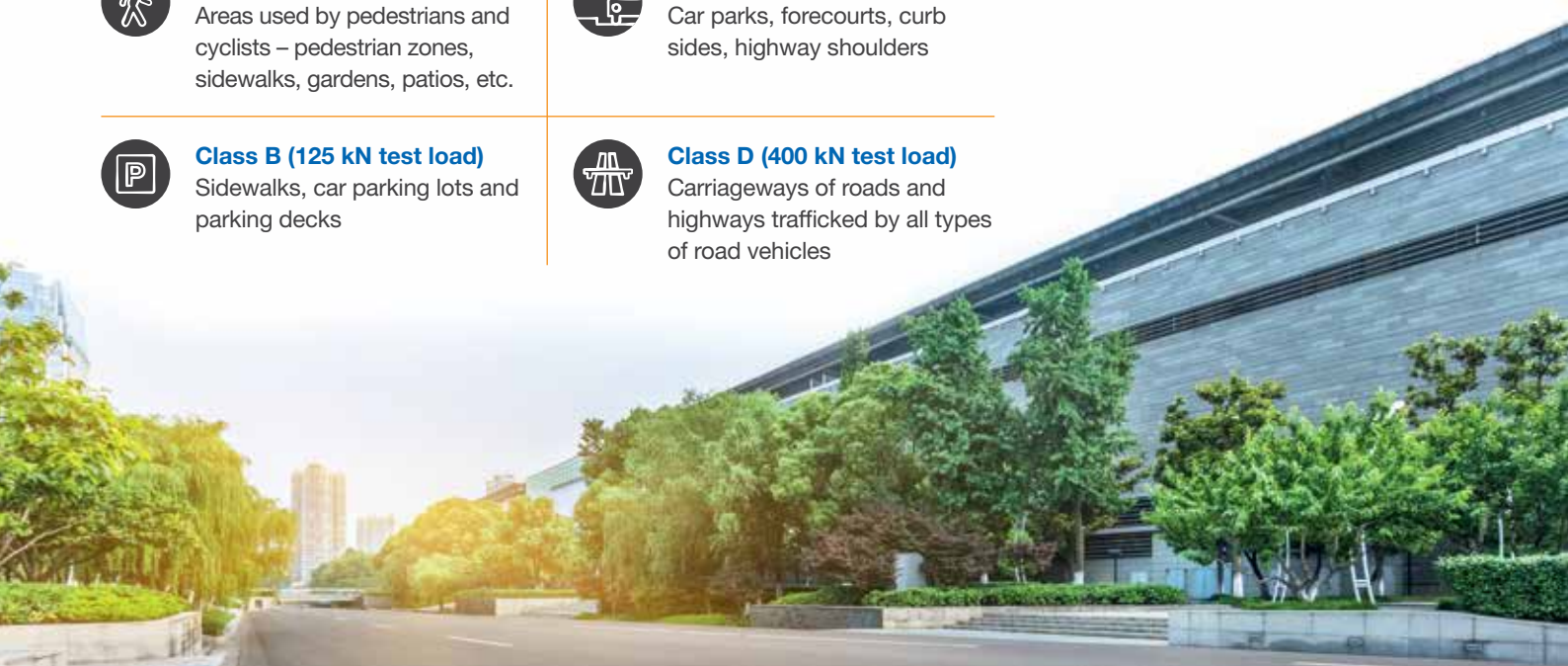
Class B (125 kN test load)

Sidewalks, car parking lots and parking decks



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.**



Unrivalled corrosion resistance



Load test of a composite cover



Proven reliable strength

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.



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

code	class	outer dimension [mm]	cover dimension [mm]	clear opening [mm]	height [mm]	closing
CCSMCB780*	B125	Ø 780	Ø 654	Ø 600	35	1 screw 1 clamp
CCSMCB590*	B125	Ø 590	Ø 497	Ø 450	35	1 screw 1 clamp
CGSMCB450 Grate	B125	Ø 590	Ø 497	Ø 450	35	1 screw 1 clamp



CCSMCB780*

Class D400

code	class	outer dimension [mm]	cover dimension [mm]	clear opening [mm]	height [mm]	closing
CCSMCD800**	D400	Ø 800	Ø 646	Ø 600	100	3 screws
CCSMCD790LOCK**	D400	Ø 790	Ø 646	Ø 600	100	1 hinge 1 lock
CCSMCD720*	D400	Ø 720	Ø 597	Ø 550	75.5	3 screws



CCSMCD800

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

Manhole and Inspection Chambers Covers | SQUARE

Class A15, B125

code	class	outer dimension [mm]	cover dimension [mm]	clear opening [mm]	height [mm]	closing
CCSMCA85	A15	859/859	747/747	691/691	47	4 screws
CCSMCB85	B125	859/859	747/747	691/691	47	4 screws
CCSMCB73	B125	725/725	640/640	600/600	50	4 screws
CCSMCA68	A15	665/665	595/595	555/555	35	4 screws
CCSMCB68	B125	665/665	595/595	555/555	35	4 screws
CCSMCA59	A15	592/592	507/507	468/468	35	4 screws
CCSMCB59	B125	592/592	507/507	468/468	35	4 screws
CCSMCA50	A15	500/500	403/403	360/360	35	2 screws



CCSMCB85

Inspection Chamber Covers for Pipes DN 400 / DN 325

Class A15, B125, D400

code	class	outer dimension [mm]	cover dimension [mm]	clear opening [mm]	height [mm]	closing
CCSMCB400*	B125	Ø 580	Ø 497	Ø 355	120	1 screw 1 clamp
CCSMCA315	A15	380/380	Ø 308	Ø 277	81	2 screws
CCSMCB315	B125	380/380	Ø 308	Ø 277	96	2 screws
CCSMCD315	D400	380/380	Ø 308	Ø 274	125	1 screw 1 clamp
CCSMCA325	A15	380/380	Ø 308	Ø 277	81	2 screws
CCSMCB325	B125	380/380	Ø 308	Ø 277	96	2 screws
CCSMCD325	D400	380/380	Ø 308	Ø 274	125	2 screws

*available with vents



CCSMCB315

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

Class B125

code	class	outer dimension [mm]	cover dimension [mm]	clear opening [mm]	height [mm]	closing
CGSMCB400	B125	Ø 580	Ø 497	Ø 355	120	1 screw 1 clamp
CGSMCB315	B125	380/380	Ø 308	Ø 274	125	2 screws
CGSMCB325	B125	380/380	Ø 308	Ø 274	125	2 screws

CGSMCB400



CGSMCB315

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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