

# Superior GRP pipes for today's sewer challenges

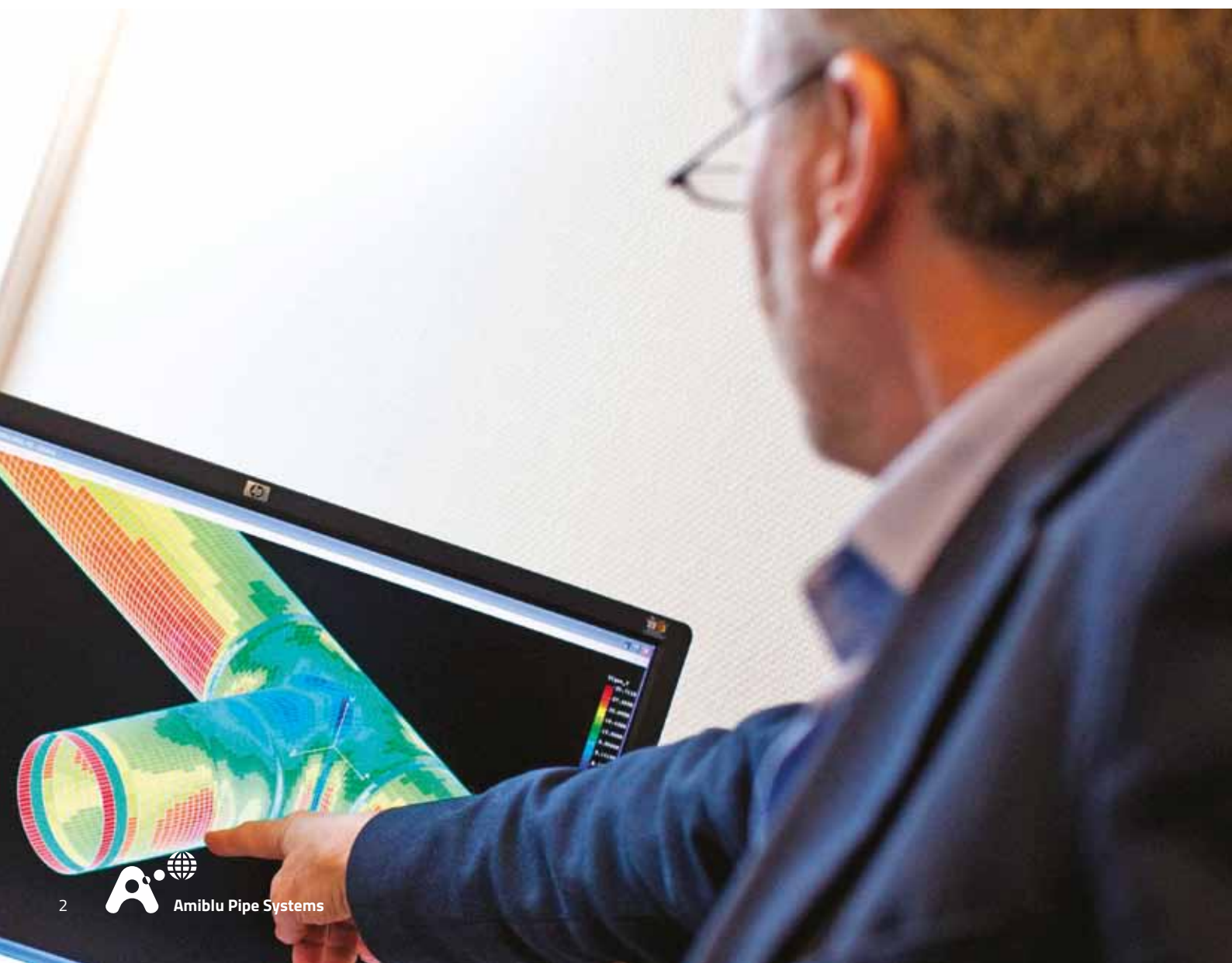
Managing sewage and stormwater in a sustainable way



# Amiblu GRP pipe systems

## Engineered for the next 150 years

Hobas and Flowtite glassfiber reinforced plastic (GRP) pipe systems by Amiblu are the product of over five decades of innovation, experience and development. We are the largest producer and technology partner for GRP pipes in the world. Because of our composite engineering and material science skills, we offer a product with an expected service life of more than 150 years.



# Our promise: sustainable pipe solutions for today's sewer challenges

Pipe networks for waste- and stormwater discharge represent indispensable cornerstones in every urban environment. With today's rapidly growing populations and aging infrastructure, cities are forced to look for solutions to avoid failures: they need to expand or renew their sewer networks in a sustainable way.

GRP is inherently resistant to corrosion. That's why Amiblu GRP pipe systems replace traditional corrosion-sensitive pipe materials like concrete, steel, and ductile iron that regularly fail in acidic sewer environments. Thanks to their smooth bore, they enable a safe and highly efficient low-gradient operation without needing regular maintenance. A range of special fittings and accessories support modern sewer and drainage networks with stormwater storage and separation as well as smart manhole technology.



## Environmental sustainability

Our thermoset resins are designed to be inert and stable for 150 years. Glassfibers add stability and strength.



## Economic sustainability

Lowest capital cost, lowest installed cost, and lowest lifetime cost. Sustainability doesn't have to cost the earth.



## Social sustainability

Suppliers of water, sewage, drainage and energy need our pipeline technologies. We help build an infrastructure for generations to come.

**Light weight for easy installation**

**Excellent long-term stiffness**

**Great hydraulic performance**

**Perfect water jetting resistance**



**Lifetime of more than 150 years**

**Non-corrosive composite**

**Excellent abrasion resistance**

**Leak-tight pipe wall and joint**

# Your benefit: sewer and stormwater systems that will never corrode

Amiblu GRP gravity sewer pipe systems have a custom-tailored pipe structure design and are highly resistant to corrosive substances and therefore ideal for piping municipal wastewater. Our pipes are widely used for sewers as well as bridge, road, or tunnel drainage.

Thanks to the material's high corrosion resistance, Amiblu GRP pipe systems easily withstand the low pH-value of biogenic sulfuric acid, which is commonly found in wastewater systems. Equipped with a high-performance resin or special liner material, they provide an ideal solution even for particularly aggressive media in e.g. industrial applications.



## Engineered for 150 years of operations

Our strain corrosion data supports an expected service life of over 150 years. This is supported by the evidence from existing installations that are as good as new after over 40 years of service.



## Corrosion free by nature

Sewer pH values can be very low, and the build-up of sulphuric acid rapidly attacks concrete and any steel pipes. Being based on GRP, Amiblu products are inherently resistant to corrosion.



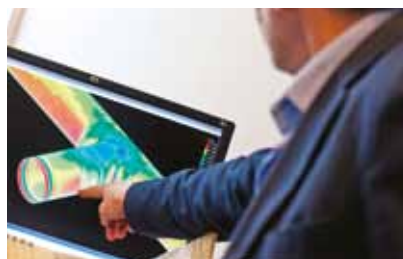
## Unrivalled abrasion resistance

Our sewer liner technology offers unrivalled abrasion resistance and therefore requires only very little maintenance. It is fully compatible with water jet cleaning.



## Uniquely resistant to slime build-up

Amiblu pipes have a smooth, resin-rich internal surface that resists the build-up of slime and increases flow rates even when gradients are low or diameters small.



## Unique structural stability

Amiblu GRP products feature stable mechanical properties, low creep, and a low coefficient of thermal expansion. They are resistant to soil loads, seismic activities, and structural settlements.



## Light weight, easy handling

Our pipes require no heavy handling equipment, which reduces transportation and installation costs. It also makes them a perfect solution for remote project areas that are difficult to access.



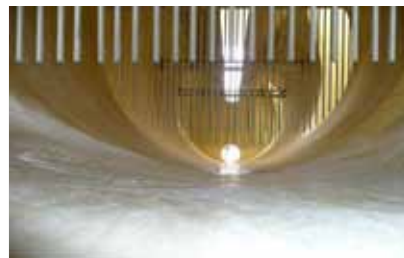
### Lean production, effective monitoring

Proven systems for monitoring of dimensions, curing temperature, wall thickness, length, and diameters. Largest officially accredited testing laboratory for GRP pipes worldwide.



### Special liners for extreme conditions

With Flowtite Orange and Hobas PU Line, Amiblu offers innovative solutions for extreme wear exposure. The special liner technologies ensure top performance even at the most challenging conditions.



### High-performance solids retention

Our Amiscreen system and Hobas CSO chamber provide a highly effective pollutant retention in combined sewers and storage sewers. Natural water courses are no longer subject to pollution!



### Integrated systems approach

In addition to our standard pipes, we offer customized GRP fittings for wastewater storage and transport as well as smart manholes with integrated pumps and valves.



### Non-circular relining pipe systems

Failing traditional sewers can be relined with our custom profiles to restore their full mechanical integrity. Their smooth interior surface ensures optimal flow rates after relining.



### From 100 mm to 4000 mm

No project is too large or too small for us: Amiblu GRP pipes are available in a broad range of nominal diameters from DN 100 up to DN 4000 (mm).



Let our team help your team!

On any project, you need to know that the people you work with are as committed to your success as you are. We believe in the long view and the longterm. So we partner with our customers from concept through to in-operation. We add value with innovative GRP solutions that outscore traditional alternatives on every parameter. We help you solve your problems and overcome your challenges to guarantee longterm, sustainable performance.

#### **XL SEWER PIPE JACKING CZAJKA / BURAKOWSKI (POLAND)**

Jacking of Hobas GRP pipes De 3000 (5.7 km) and De 3270 (3.2 km) for transporting sewage to the wastewater treatment plant Czajka in Warsaw. The De 3000 section earned Hobas the ISTT No-Dig Award in 2011. The subsequent De 3270 part involved the largest-diameter microtunneled curve ever realized with a GRP pipe so far.

## Reference projects all around the globe

Amiblu GRP sewer pipes have an impressive track record and are installed around the globe. Among the installation methods are open cut, microtunneling, relining, above ground, on suspensions, in tunnels, and subaqueous.

#### **SEWER PIPELINE DN 600-1200 IN RHEINFELDEN (GERMANY)**

In the city of Rheinfelden in southwestern Germany, a sewer pipeline has been renovated with 324 m Flowtite GRP pipes DN 600 and DN 1200. Three manholes DN 1600 completed the innovative wastewater system.



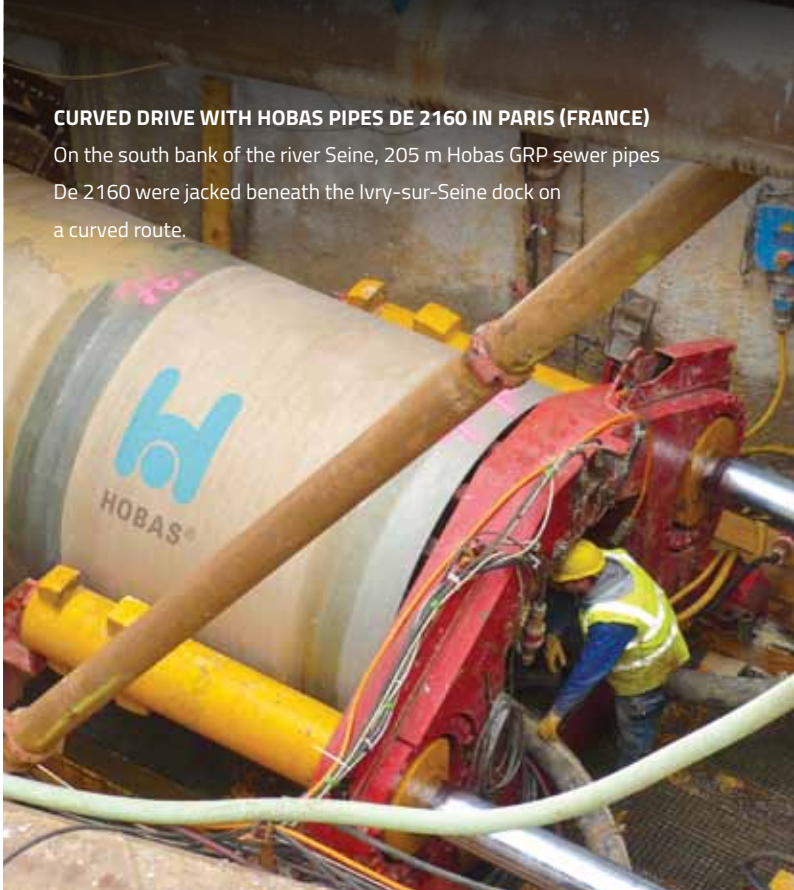
#### **RAINWATER STORAGE WITH SOLIDS RETENTION IN BAVARIA (GERMANY)**

An 805 m<sup>3</sup> Flowtite stormwater storage tank DN 3000 with integrated Amiscreen was installed in record time for the Bavarian municipality of Weißenohe.



#### **SEWER PRESSURE PIPELINE FOR WILHELMSHAVEN (GERMANY)**

As part of a major infrastructure project in the German city of Wilhelmshaven, a 5700 m long Flowtite sewer pressure pipeline DN 1200 was installed in open trench.



#### **CURVED DRIVE WITH HOBAS PIPES DE 2160 IN PARIS (FRANCE)**

On the south bank of the river Seine, 205 m Hobas GRP sewer pipes De 2160 were jacked beneath the Ivry-sur-Seine dock on a curved route.



#### **RELINING OF STORMWATER SEWER AT ZÜRICH AIRPORT (SWITZERLAND)**

Challenging nighttime rehabilitation of a concrete stormwater sewer DN 2200 with GRP pipes at the international Zürich Airport. Amiblu excelled by providing a minimally invasive and sustainable installation possibility.

## Why there is nothing else like an Amiblu pipe system



Engineered for  
the next 150 years



Service-focused partners  
to solve your problems



Innovation to challenge  
the status quo



# Amiblu®

Explore more on [amiblu.com](https://amiblu.com) or contact your local partner for sustainable water solutions.

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