

RAINWATER MANAGEMENT FOR RESIDENTIAL PROJECTS



COLLECTION, TREATMENT, ATTENUATION, REUSE
AND INFILTRATION OF SURFACE RUNOFF





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INDEPENDENT FLOOD PROTECTION AND RAINWATER REUSE

In a changing climate, autonomous rainwater management systems are crucial for providing reliable flood protection while maintaining independent water security in periods of drought. PIPELIFE's comprehensive rainwater solutions protect properties, improve resource efficiency, reduce costs and future-proof water management practices in the face of evolving environmental challenges and regulations.



PROTECTED PROPERTIES

Prepare your property for extreme weather events.



REDUCED HOUSEHOLD EXPENSES

Minimize water fees with independent rainwater management.



INCREASED PROPERTY VALUE AND LONGEVITY

Raise the value of your building by integrating an independent solution that safeguards properties while facilitating regulatory compliance.



UNCOMPROMISED OPEN SPACES

Maintain open spaces for green, biodiverse areas that improve resident well-being and stimulate the local environment.

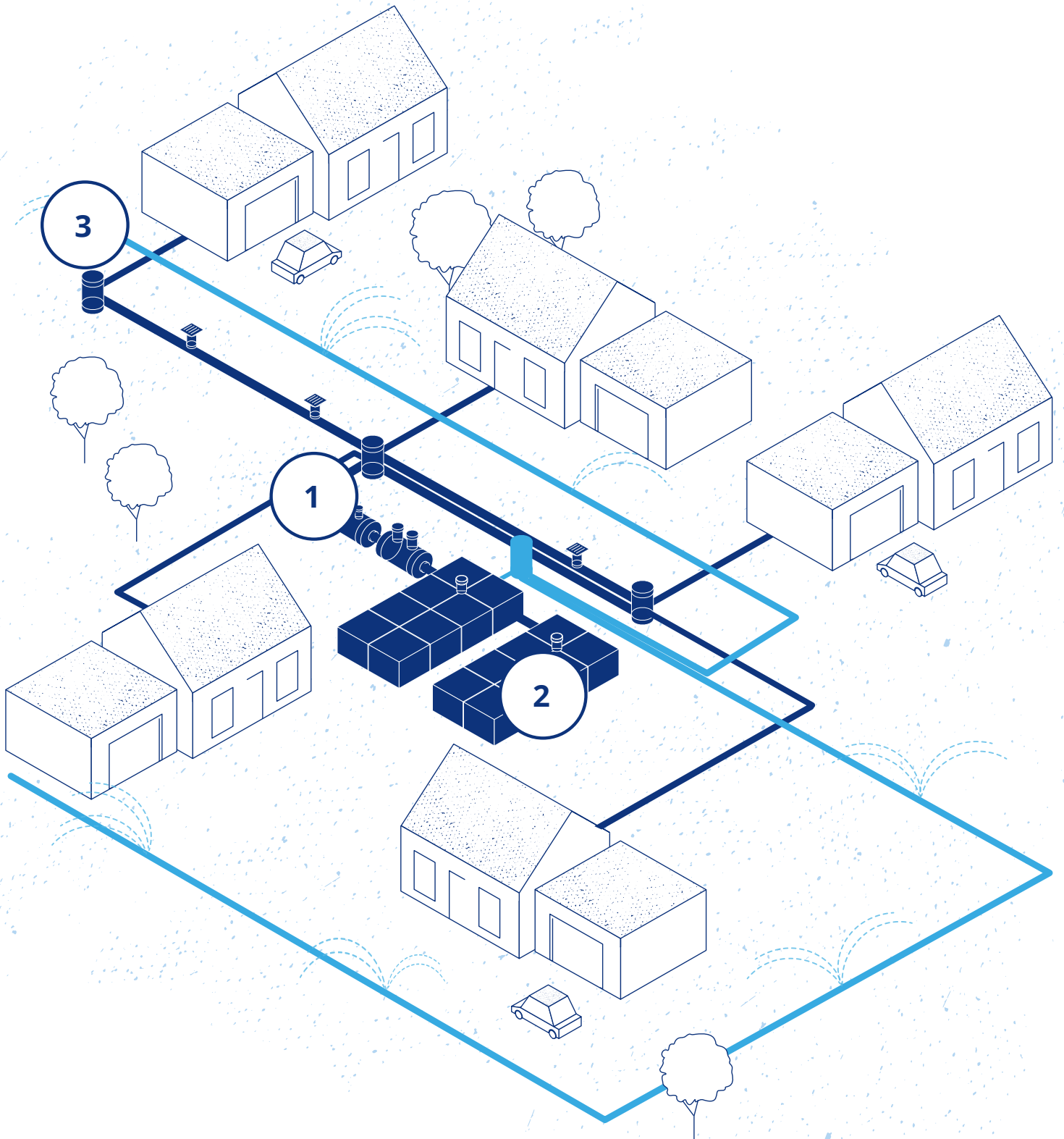


ENVIRONMENTALLY SUSTAINABLE LIVING

Reduce your environmental impact with sustainable systems and practices.



FROM RAIN TO DRAIN — AND BACK AGAIN



1

HIGH-CAPACITY ATTENUATION

Rainwater retention and attenuation:

- Protects properties and premises against flooding and water damage
- Helps to prevent contamination from combined sewerage overflows
- Stores rainwater for reuse

2

CONTROLLED INFILTRATION

The gradual release of excess water into the soil:

- Increases independence from public rainwater systems and reduces related discharge fees
- Establishes hydraulic invariance, allowing the completion of natural water cycles despite soil sealing
- Maintains groundwater resources and avoids related subsidence

3

EFFECTIVE WATER REUSE

Saves on valuable drinking water by reusing collected rainwater for:

Garden and landscape irrigation

Bathroom facilities

Other non-potable water uses



PROVIDE TOTAL WATER SECURITY WITH SELF-SUFFICIENT RAINWATER MANAGEMENT



PIPELIFE rainwater management solutions provide reliable and independent protection while increasing the water efficiency of properties. We facilitate the stress-free implementation and operation of a self-reliant rainwater system through the efficient use of space, time and money.

+ FLOOD PROTECTION

Safeguard properties against extreme rain events with high-capacity attenuation systems that minimize rain and melt-related flooding via dedicated underground storage.

+ DROUGHT RELIEF

Navigate water shortages with modular storage crates that accumulate vast quantities of reusable rainwater for irrigation, bathroom facilities and other non-drinking water uses.

+ NETWORK INDEPENDENCE

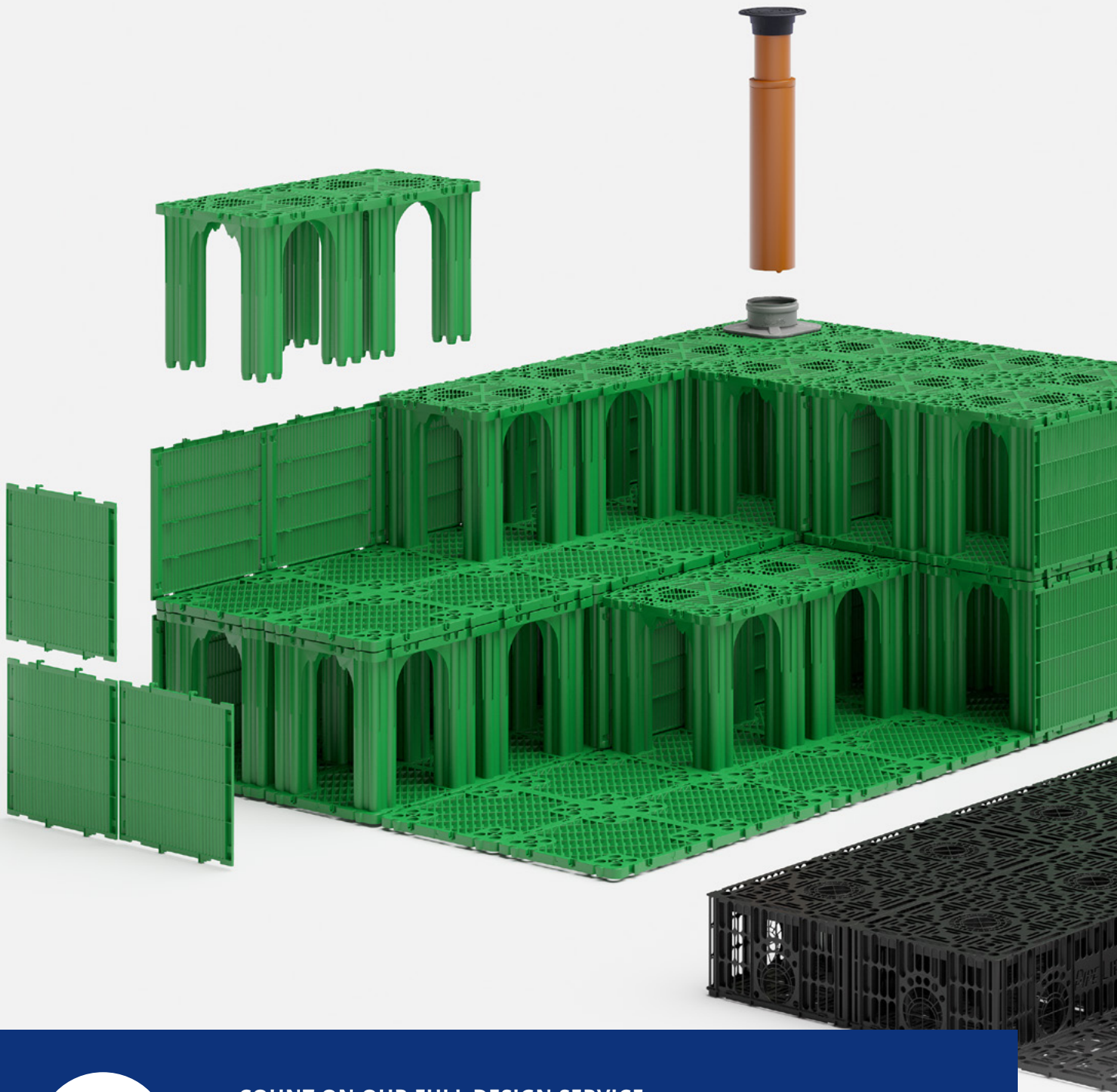
Bypass the costs and limitations of public systems with an independent solution capable of collecting, cleaning, retaining and infiltrating excess rainwater.

+ DRINKING WATER CONSERVATION

Save on valuable drinking water resources and minimize household water bills by reusing retained rainwater for non-potable applications.

+ ECOLOGICAL COMPLIANCE

Maintain hydraulic invariance despite soil sealing, preserving groundwater resources and preventing potentially destructive land subsistence. Ensure sustainable water flows with expansive infiltration systems that ensure the safe and controlled drainage of excess rainwater into the ground.



COUNT ON OUR FULL DESIGN SERVICE

Our comprehensive consultation service utilizes flood-risk calculation software to tailor the system to your specific project requirements. Weather data, soil characteristics and physical surroundings are analyzed to ensure your setup is optimized for the local environment.

MINIMIZE COSTS WITH COMPACT, COMBINABLE INSTALLATIONS

Serve multi-unit residential properties with a single rainwater management solution and avoid the extra cost and space associated with separate system installations.

SAVE TIME WITH FAST, FAILSAFE SYSTEM IMPLEMENTATION

Installation support and an easy-to-use modular design ensure setups are installed error-free and on-time.



DEPEND ON HIGH-QUALITY PRODUCTS AND TESTED SOLUTIONS

All our products and components are produced to the highest national and international standards and have been proven in a variety of residential settings throughout Europe.

AVOID UNNECESSARY DISTURBANCES WITH STRAIGHTFORWARD OPERATION AND MAINTENANCE

High-quality components, easy access for cleaning and inspection, and options for smart system control ensure infrequent maintenance interventions and effortless asset management.

REDUCE THE ENVIRONMENTAL IMPACT OF BUILDING PROJECTS

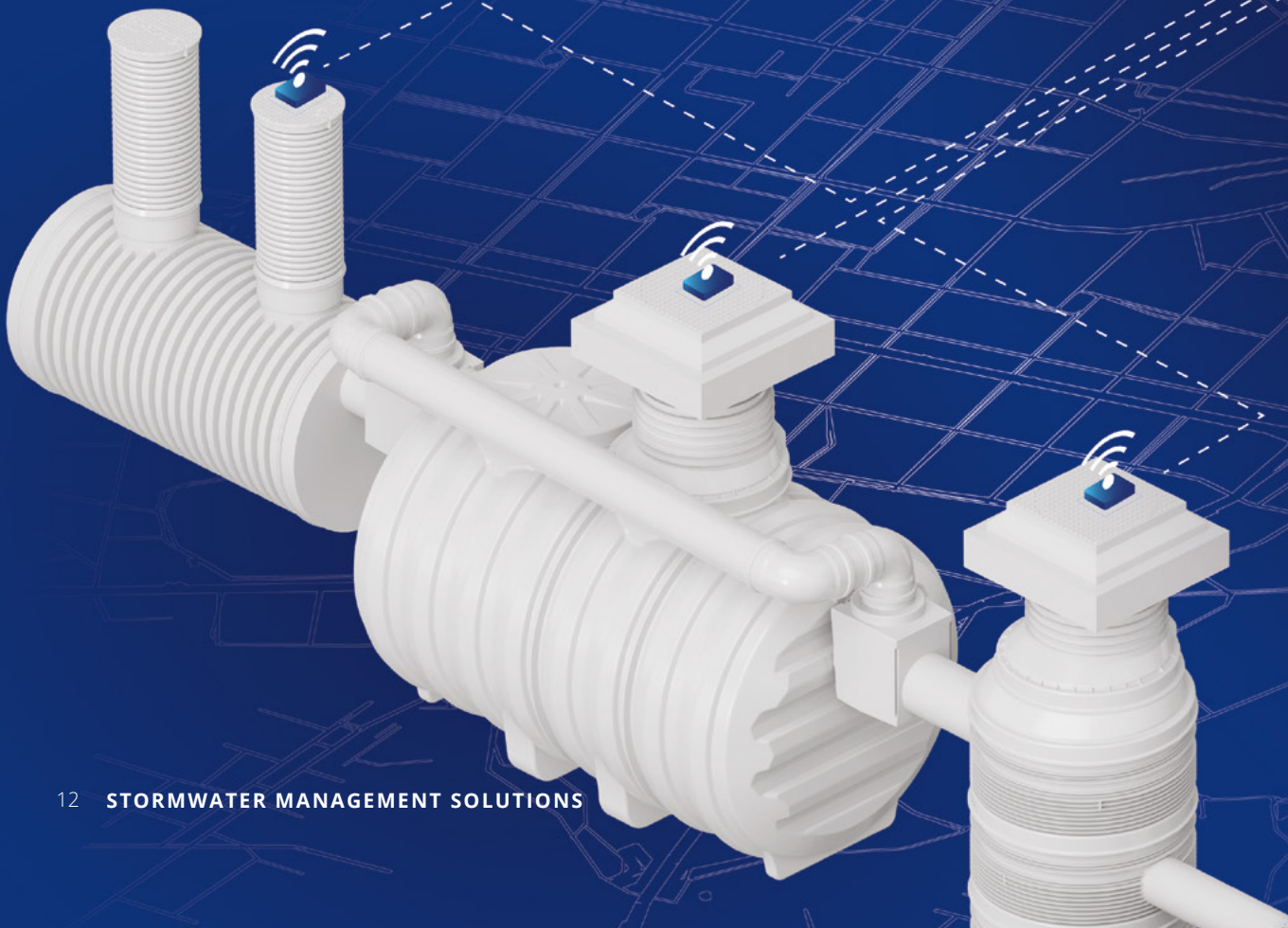
Our products are not only sustainably sourced and produced, they are fully recyclable or reusable. We also offer system components made from 100% recycled material, such as the Stormbox E.

OPTIMIZE SETUPS WITH SMART SYSTEM INTEGRATIONS

PIPELIFE smart solutions provide greater control, easier asset management, improved resource efficiency and preemptive maintenance measures to further enhance system performance.

While our smart devices can be seamlessly integrated into preexisting third-party systems, we also offer a comprehensive smart service via the PIPELIFE SmartHub — a web-based data and software platform that provides a powerful interface for conducting daily operations and asset management.

SmartHub complies with the highest IT security standards and is available 24/7 via your web browser or the PIPELIFE SmartHub app.





TAKE PREVENTATIVE MEASURES WITH FLOOD RISK WARNINGS

Predict expected water quantity with integrated weather data analysis and avoid system capacity overloads with preemptive alerts via SmartHub.

OPTIMIZE ENERGY CONSUMPTION AND MANAGE RESOURCES EFFICIENTLY

PIPELIFE smart solutions help you save energy by ensuring pumping and cleaning cycles are executed as effectively as possible and only performed when required.

SAVE ON UNNECESSARY MAINTENANCE COSTS

Schedule predictive maintenance suggestions based on recorded water-level data to avoid system failures and ensure maintenance works are only carried out when strictly necessary.

OPERATE AND MONITOR ASSETS REMOTELY

Enjoy 24/7 remote operation, monitoring and visualization of data via the cloud-based SmartHub interface.



SUPPORT SUSTAINABLE LIVING

PIPELIFE is supporting global sustainability initiatives with eco-friendly products and practices. We are continuously optimizing our processes throughout the value chain while maximizing the service life of our products and ensuring they can be recycled or reused at the end of their lifecycle. Beyond this, PIPELIFE rainwater management systems facilitate compliance with tightening sustainability regulations and certifications.

EU TAXONOMY AND BUILDING CERTIFICATIONS

Ecological water management is particularly pertinent to the EU taxonomy regarding the construction of new residential buildings. The taxonomy regulation directly refers to the importance of measures that mitigate the effects of flooding and reduce pollutant emissions into surface and groundwater. Beyond this, the three major sustainable building certifications, DGNB, LEED and BREEAM, all categorically state the need for flood prevention and water supply protection as a requirement for accreditation.

WATER REUSE AND INFILTRATION

At the heart of rainwater management is a desire to turn a problem into a solution through the reuse of rainwater and water management practices that emulate the natural water cycle as much as possible. Circular water management is key to achieving EU sustainability goals for residential building projects and rainwater management systems provide an opportunity to turn drainage and flood prevention into a water shortage solution.

CIRCULAR ECONOMY

Self-imposed sustainability goals ensure that, as of 2023, all new PIPELIFE products are 100% recyclable or reusable. We also place a significant emphasis on the uptake of recycled and fossil-free plastic in production while maintaining the same high quality our clients expect.

ECOLOGICAL CHOICES WITH EPDS

Environmental Product Declarations contain standardized third-party verified data about the environmental impacts of products across their entire lifecycle. PIPELIFE has started working on the EPDs to ensure transparency and provide detailed insights into the environmental impact of PIPELIFE products.

IMPROVING QUALITY AND EFFICIENCY

Quality management systems and environmental measures are implemented at all PIPELIFE production sites, meeting national as well as international standards such as ISO 9001 (Quality Management System) and ISO 14001 (Environmental Management System). We deploy industry 4.0 technologies to measure and optimize our energy and raw material consumption, as well as their related CO₂ emissions.

BIODIVERSITY

As part of the World of Wienerberger, PIPELIFE is working towards self-imposed Environmental, Social and Corporate Governance Goals. Accordingly, biodiversity measures are implemented at all our plants to encourage flora and fauna to flourish around our production sites.



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Date issued: October 2023

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