



# Akasion Siphonic Roof Drainage

Practice by principle

akasion

  
alixis



# We are Aliaxis

**As a pipe and fittings systems manufacturer, we exist to bring solutions to the world's water challenges and accelerate the transition to clean energy.**

Water is central to who we are.

We are building on strong foundations and trust our teams to preserve this precious resource and enable access to clean water. We are also providing sanitation when millions and millions of people still do not have access to it.

## Practical by principle

**With Akasison, we have the practical solution in roof drainage. A special name, and one presented with pride. It stands for a group of specialists that always strive for better. Faster, smarter, safer. For Aliaxis it is always about the best system and solution.**





We are very principled but not rigid. Because we are present on the roof, we are fully aware that a building is not designed to fit the roof drainage system, but the other way around. Rainwater drainage is only part of a larger context in which our system has to function. Which is why we like to work together.

It is about drainage based on tried and tested systems, and to never just follow the common herd. It is about craftsmanship, taking responsibility and providing top quality products and projects. Searching for innovation based on many years of experience. Improving systems and avoiding mistakes. The most valuable combination that a customer could wish for. There is nothing left to chance.



# The roof drainage specialists

**We see roof drainage as an integrated process and work to fluently pass each phase. That requires short lines of communication. But especially a heart for the business, clear instructions, great people and a well-thought-out process. Also known as: principled craftsmanship. We stand for quality. Based on tried and tested principles and our expertises:**

## Development and innovation

We have a proven history of more than 50 years of production experience, paying attention to workmanship, and synthetics is in our blood. During these 50 years, they have always moved with the times, always improving; it is our principle. Aliaxis has a dedicated Akasison innovation and development department, made up of small teams with an eye for functionality, fluid dynamics and quality. All of this is guided by input from clients so that they can continue to offer the best roof drainage system.

*With the Hydro-Dynamics Experience Centre, our own test facility for research and development, we aim for fewer components, fewer actions, fewer errors, fewer failure costs. That is how we continually develop our systems for new sustainable generation.*





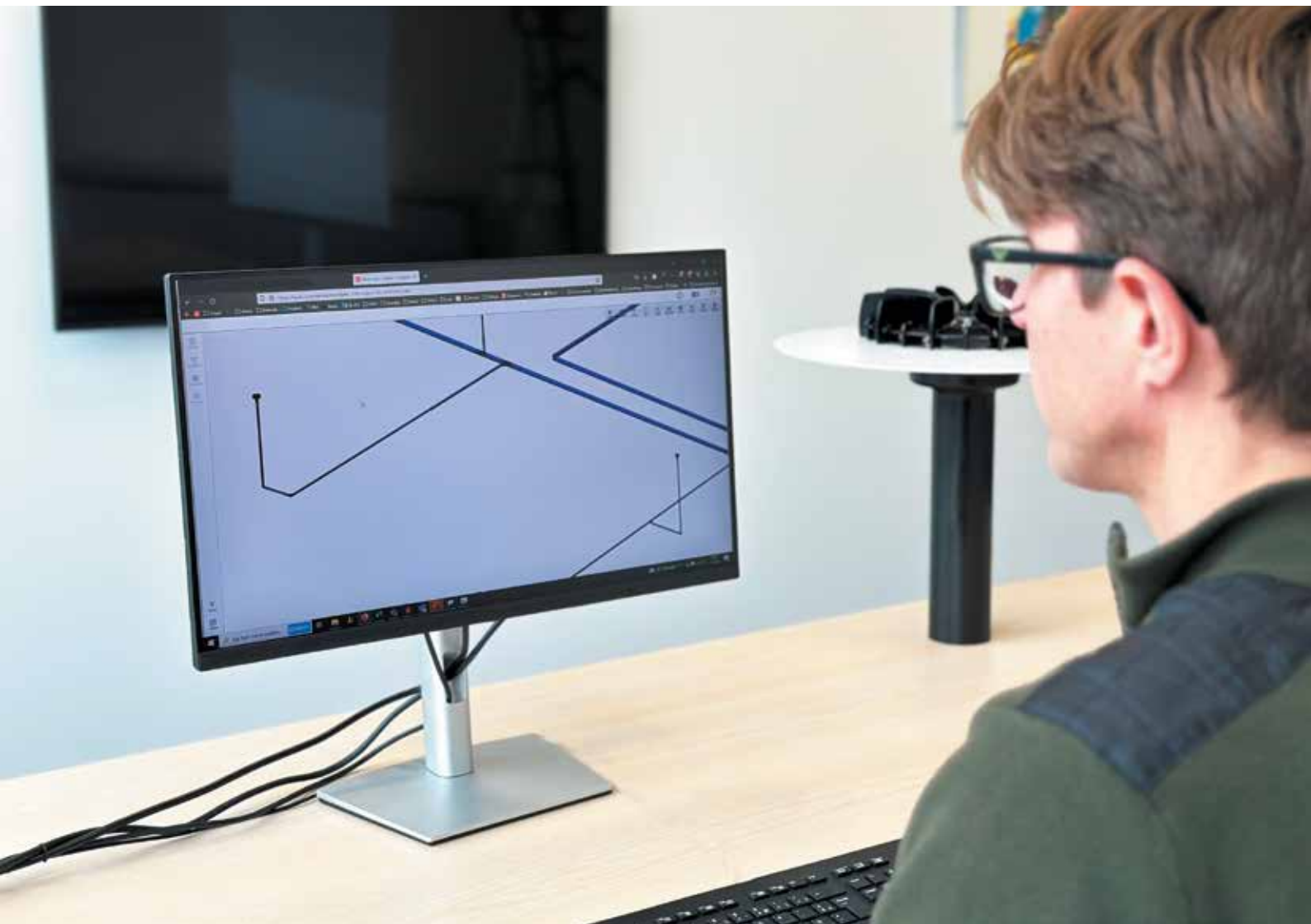
## Project design and engineering

Your project is in safe hands with our project engineers. The Akasison engineering team has built up a wealth of experience in our field of expertise: siphonic roof drainage. Your immediate point of contact will provide you with a tailor-made design for the pipe layout in your project. After your approval, the design is converted into a quote that includes a list of materials, the hydraulic design, isometric drawings and an overview of all the relevant requirements.

## Training and support

A great deal of knowledge is involved in every step of our design and development process, right through to completion. Knowledge of fluid dynamics, legislation and regulations, the application of standards and our own procedures. But especially about how things work in practice. We offer training and support so that we can continue to lead the way in the market with our Akasison system. Everything must be in good order on the roof.

*There is a disproportionate amount of brainwork in our system, and in our projects, from first deliveries to its completion. Design and engineering are at least as relevant in the best roof drainage system.*

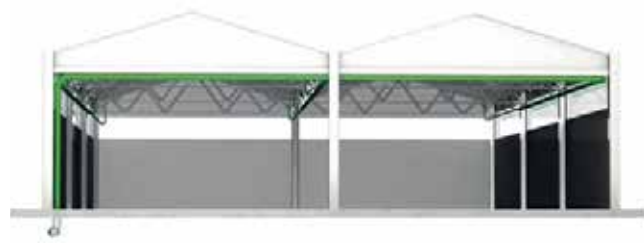
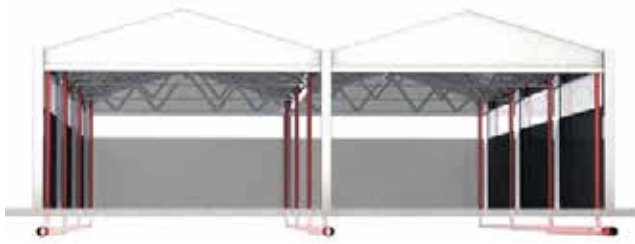


# The Akasison advantage

**The Akasison siphonic system provides architects and hydraulic engineers maximum freedom when designing rainwater drainage.**

Siphonics design principles can be used on all building types where large volumes of water are to be removed efficiently and cost effectively. Akasison requires far fewer downpipes than traditional gravity systems. Specially designed roof outlets, located in gutters, or membrane system roof / deck areas are connected to a common collector pipe located at a high level within the building. The collector pipe is installed horizontally, without gradient and is typically of a smaller pipe diameter.

The Akasison siphonic roof drainage system offers many advantages compared to conventional drainage for all building types:



## Traditional / Conventional - old

- ✗ Many down pipes
- ✗ Gradient pipe work (at roof or underground)
- ✗ Larger diameters
- ✗ More groundwork under building
- ✗ Low speed
- ✗ Not self cleaning

## Siphonic - new

- ✓ Fewer down pipes
- ✓ Level pipe work for optimal use of height
- ✓ Smaller diameters
- ✓ Little groundwork under building
- ✓ High speed
- ✓ Self-cleaning

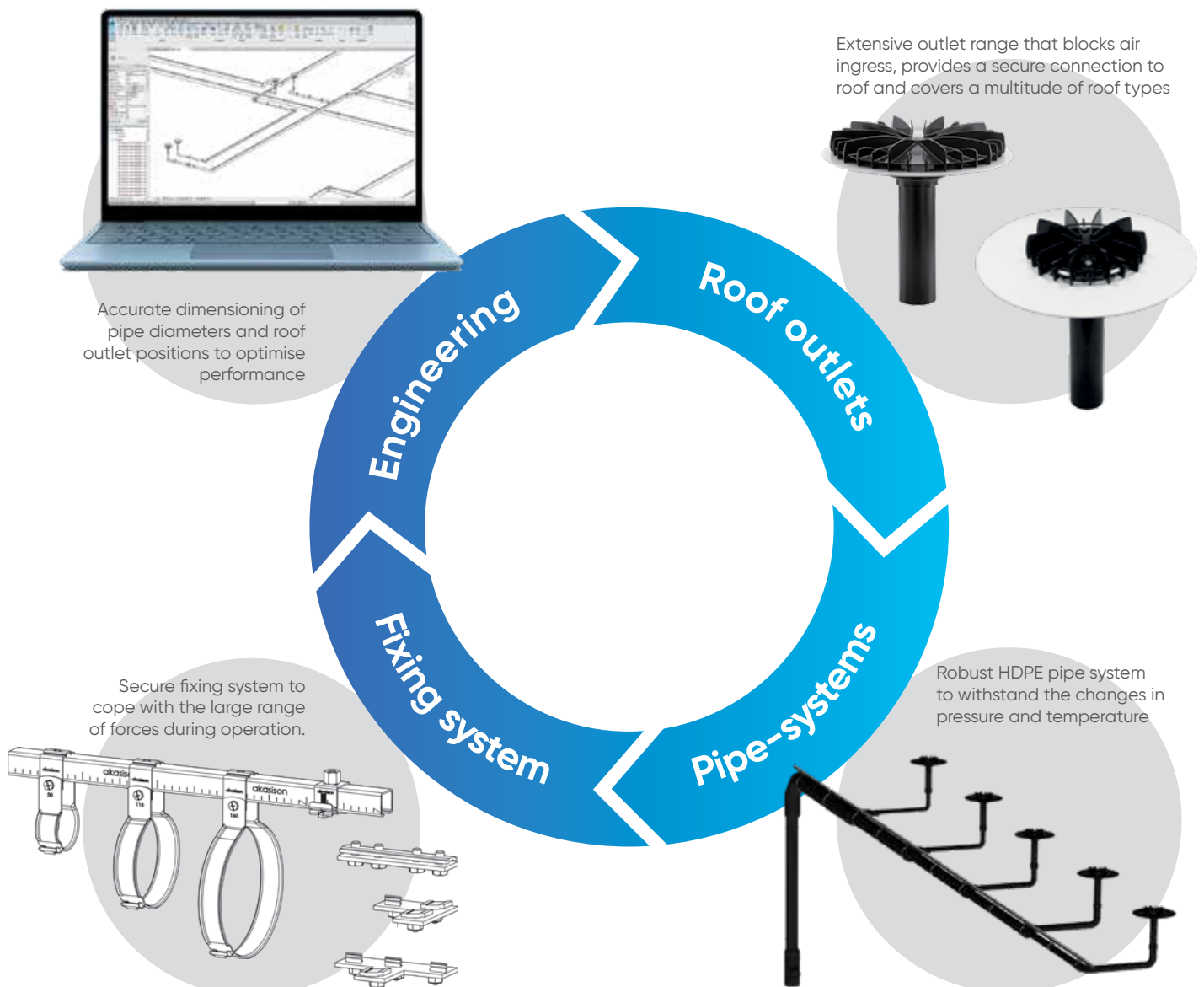
Siphonics feature	Benefits					
	Lower building & material costs	Design flexibility	More usable building space	Faster onsite installation	Lower building maintenance costs	Better for the environment
Fewer downpipes	✓	✓	✓	✓	✓	✓
May be installed horizontally, close to roof	✓	✓	✓	✓		
Smaller downpipes	✓	✓	✓	✓		✓
Less below ground work required	✓	✓	✓	✓	✓	✓
Self cleaning (easier to maintain)					✓	✓
Lighter building structure	✓	✓	✓	✓		✓
Lighter rainwater loads	✓	✓		✓	✓	
Ideal for rainwater harvesting		✓				✓
Made from recyclable materials						✓

# The Akasison solution

Akasison is more than a collection of components. We combine specific siphonic outlets, dedicated bracketing and the trusted Akatherm HDPE pipe system together with a professional siphonic design service, local product availability and a complete project support service by our local partner.

On [www.akasison.com](http://www.akasison.com) technical support documentation is available as well as the complete Akasison product range as a REVIT content package to include in the BIM project model.

Akasison is a highly circular solution, using fewer pipes that are smaller in diameter than a conventional gravity drainage solution, using components that are up to 90% re-usable at the end of the project life.



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