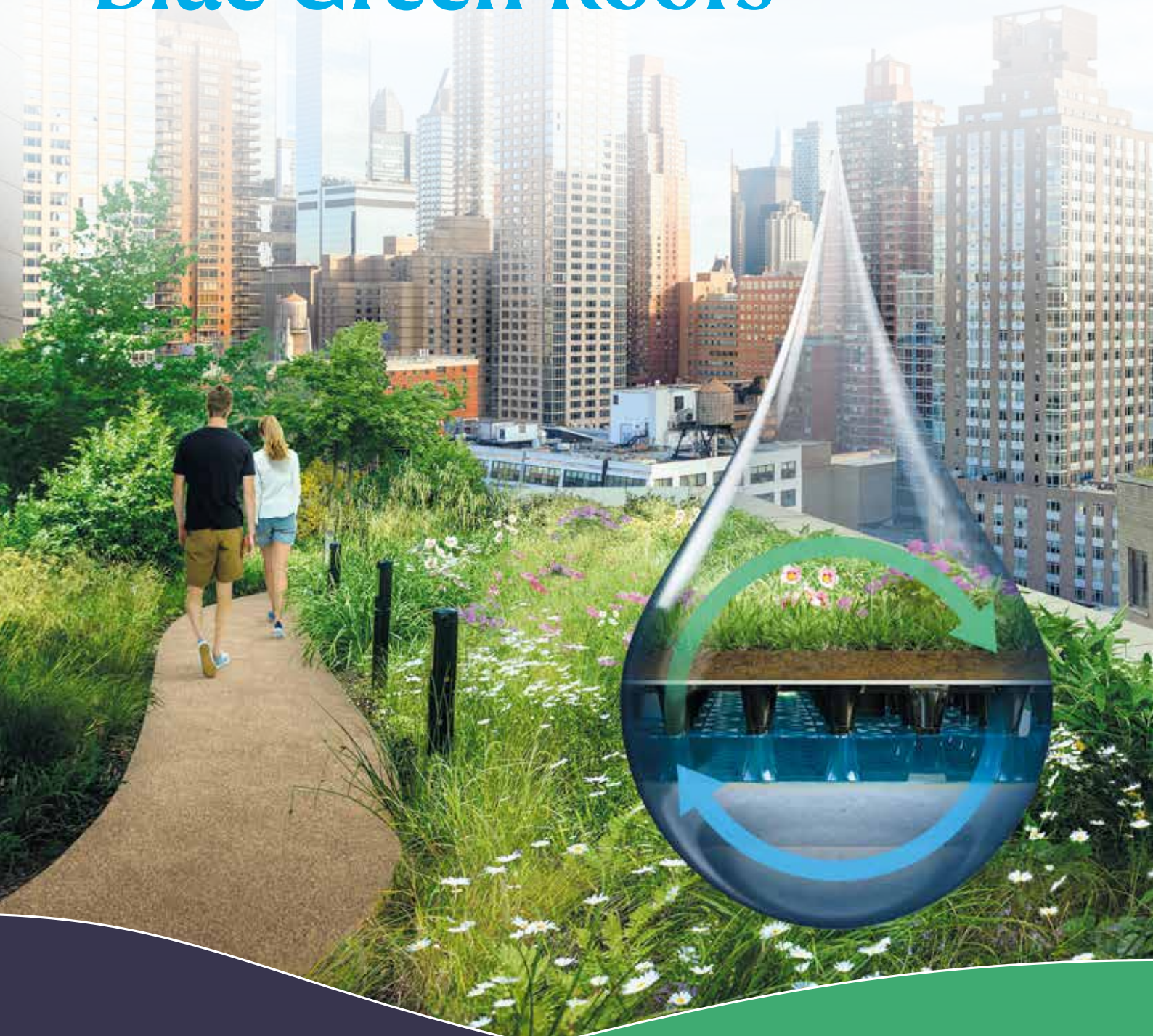


Wavin PolderRoof

Expertise and solutions for urban climate resilience

Blue Green Roofs



Welcome to the PolderRoof

Wavin offers a new solution for smart rooftop water management, Wavin PolderRoof, and is now helping cities think about water as a closed loop resource from the first drop of rain to the final runoff. Rooftops offer extensive opportunities for climate adaptation, both in the private and public sectors, and can be used to create more liveable and greener urban spaces, for more climate-resilient cities of tomorrow.

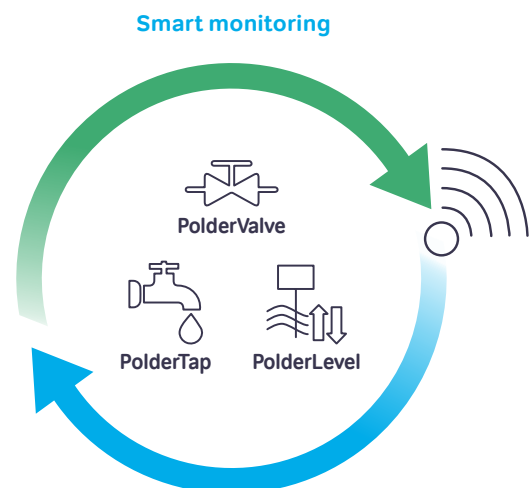
Cities are growing and the climate is changing; heavier precipitation, extreme heat and prolonged drought combined with less urban space for solutions means the need to think about more resource-efficient solutions has growing importance. Nature-based solutions, green infrastructure, and especially rooftops have been identified as critical components on the path to climate mitigation and adaptation, but it turns out that green doesn't work without blue - which is why we see the smart blue-green roof - the PolderRoof - as an essential part of the solution.



What makes the PolderRoof® special?

The Wavin PolderRoof transforms flat roofs in existing or new buildings into intelligent and controlled water reservoirs with integrated irrigation function. Consisting of a horizontal attenuation layer, sensors for water levels and weather conditions, and a platform with access to weather forecasts and with hyperlocal rain data reconciliation, the system decides how best to deal with rainwater. The aim is to work toward a positive water balance; to store and make available as much water as possible and necessary for plants, but also for evaporation, building cooling, or water reuse, especially during the growing season. In times of more frequent water shortages and drought, the roof storage can also be actively replenished via another - ideally sustainable - water resource, always making the smartest decision for the most sustainable use of water.

With its advanced technology, Wavin PolderRoof contributes to improving biodiversity, urban climate resilience and building efficiency, and forms an indispensable foundation for any type of flat roof - whether green roof, roof garden or solar roof.



About Wavin

Orbia's Building and Infrastructure business Wavin is an innovative solutions provider for the global building and infrastructure industry. Backed by more than 60 years of product development experience, the business is tackling some of the world's toughest challenges through pioneering in water and sanitation management, indoor climate control technologies and durable, adaptable and efficient countryside and urban infrastructure solutions.



PolderRoof structure

- 1 Extensive or intensive green roof with substrate
- 2 Capillary fleece
- 3 AquaCell Up Water storage
- 4 Protective fleece
- 5 Warm roof structure with sealing

Discover our broad portfolio at www.wavin.com

- Water management
- Heating and cooling
- Water and gas distribution
- Waste water drainage



Wavin is part of Orbia, a community of companies working together to tackle some of the world's most complex challenges.

We are bound by a common purpose:
To Advance Life Around the World.

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