

Product Guide

# QuickStream

Siphonic roof drainage system

**NEW**



**wavin**





Wavin is one of the leading companies in the plastic pipe industry in Turkey. Our company offers a wide range of high-quality pipe and fittings system solutions for building and infrastructure. Our company, which has a history of more than half a century, started production in 1971 in Adana. Pilsa Plastik A.Ş. was purchased by Wavin B.V, the largest European company in its own field in the Netherlands in 2008.

In 2012, all Wavin companies joined the Mexichem family which is South America's giant petrochemicals and raw materials producer. Mexichem announced its new name as ORBIA in 2019. ORBIA, with its new changing business structure, provides professional support to its customers with its products and services in 5 main business lines: Building & Infrastructure, Flour, Datacom, Precision Agriculture and Polymer Solutions. With the new structuring of ORBIA, its main mission is to advance life around the world.

In 2019, with the renewed business structure of ORBIA, building & infrastructure business line was started to represent by WAVIN, a single and strong brand across the globe. WAVIN operates in more than 40 countries around the world in 4 main regions: Europe-Middle East-Africa, Asia-Pacific, Latin America and USA-Canada with 12.000 employees.

Wavin is now a global leader in the supply of plastic pipe systems and solutions for both above and below ground applications in projects around the world. Since the 1950s, we have built an unrivalled reputation for continuous innovation, intelligent problem-solving, dedicated technical support and the highest standards.

Wavin Turkey offers traditional products such as PPR-C clean water, PVC wastewater as well as the innovative products such as Tigris Press-fit systems, SiTech+ low noise pipes, Qickstream siphonic rainwater drainage systems, Q-Bic Plus infiltration systems, Tegra plastic manholes etc. to the sector. Wavin Academy which is the first training centre of the sector was opened in 2014 within our factory in Adana, Tens of thousands of visitors from various levels of the mechanical installation sector have been able to increase their expertise by attending training at Wavin Academy since 2014. Our company provides fast service with Adana, Istanbul, Ankara and Izmir offices, distribution centres located in Istanbul and Adana and wide dealers network. In addition to our sales staff, our expert engineers and technical personnel support our customers for the projects.

To get more information about our company and products, please visit our website [www.wavin.com.tr](http://www.wavin.com.tr) and follow us on our social media accounts.

# Wavin QuickStream

## **The most technically advanced siphonic roof drainage system**

Plumbing engineers, architects, building owners and contractors are increasingly realizing the many benefits of using siphonic roof drainage. For non-residential projects siphonic drainage has already become the norm for draining large and sometimes complex roof areas. Gravity drainage is now the exception.

A lot can be said about the theory behind siphonic drainage, but this brochure will focus on the many benefits the system will bring to your project. Not only will a siphonic system quickly and efficiently discharge rainwater (even at peak rainfall conditions), it also allows you to save on build costs and free up space inside the building.



### Siphonic drainage solutions

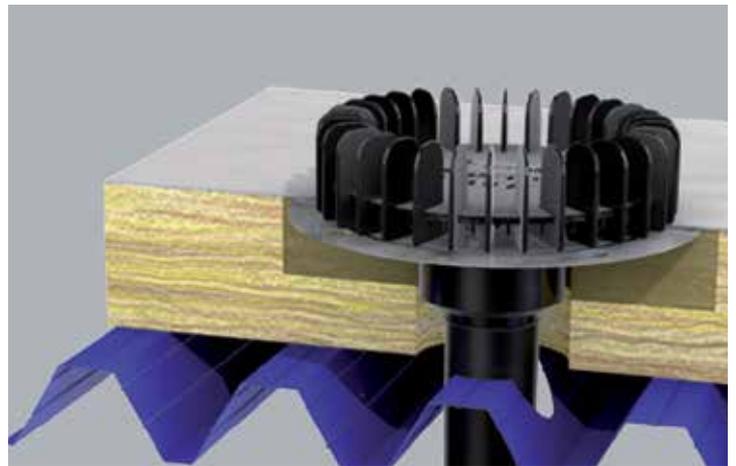
Wavin has been on the front line of siphonic drainage solutions ever since the Wavin QuickStream system was introduced in 1982. Wavin QuickStream systems have been installed in more than 20 countries worldwide.

### Advantages of siphonic explained

Siphonic drainage systems offer clear advantages over traditional gravity drainage. Pipe sizes are smaller as water is being channeled through the pipes without air. Smaller pipe

sizes reduce the building costs. Next to smaller pipe sizes, the total pipe work and the number of roof outlets is reduced, lowering also the installation costs. From a sustainability point of view there is a positive impact on the carbon footprint of the building.

As the lateral pipework of a siphonic drainage system is installed without a gradient, the available space in the building is optimized and internal pipe work is no obstruction. Therefore, siphonic drainage is for example the preferred choice for inner city multi-storey parking garages.



# The special benefits of Wavin QuickStream

Not every siphonic system offers you the same benefits. Wavin QuickStream builds on 30 years of experience, offering on-site installation and design support. Together with Wavin you will overcome on-site challenges and technical queries.

The specially designed bracketing system of Wavin QuickStream ensures quick and safe installation and is a major convincing argument to work with Wavin. The bracketing system has been designed and calculated to cope with the elongation and shortening of PE pipes for a 30°C change in temperature. Bosch Engineering has verified both the method as well as the results.

Wavin offers a de-ventilation chamber for every QuickStream system, which also serves as an access point and starting point of other Wavin water management solutions below parking garages and next to the building.

In 2013, Wavin is further strengthening its offer with new and improved metal roof outlets. The new metal roof outlets have been developed by Wavin and tested by LGA (Germany). A wide range for various roofing material and installation in gutters is available. Metal roof outlets are the preferred choice of investors and installers as they show to be very durable during installation and roof maintenance.



# Designing Wavin QuickStream

For plumbing engineers it is necessary to fully understand how to design a siphonic roof drainage system. Because of the complexities of the design calculations, it is essential to use an established and proven analytical design program.

With the QuickStream system, Wavin goes one step further compared to other siphonic systems. Every QuickStream project is designed and calculated by Wavin. The special designed software is the most sophisticated within the industry. It checks the system balancing, cavitation, velocity and priming of the down pipes (see explanation below).

CHECK	CHECK DONE BY WAVIN / PURPOSE
<b>System balancing</b>	Energy loss of all roof outlets is the same / correct capacity roof outlet
<b>Cavitation</b>	Too high negative pressure in pipes may lead to damaged pipework
<b>Priming of downpipe</b>	Downpipes need to be fully filled with water
<b>Velocity</b>	Minimum speed to ensure cleansing of pipework

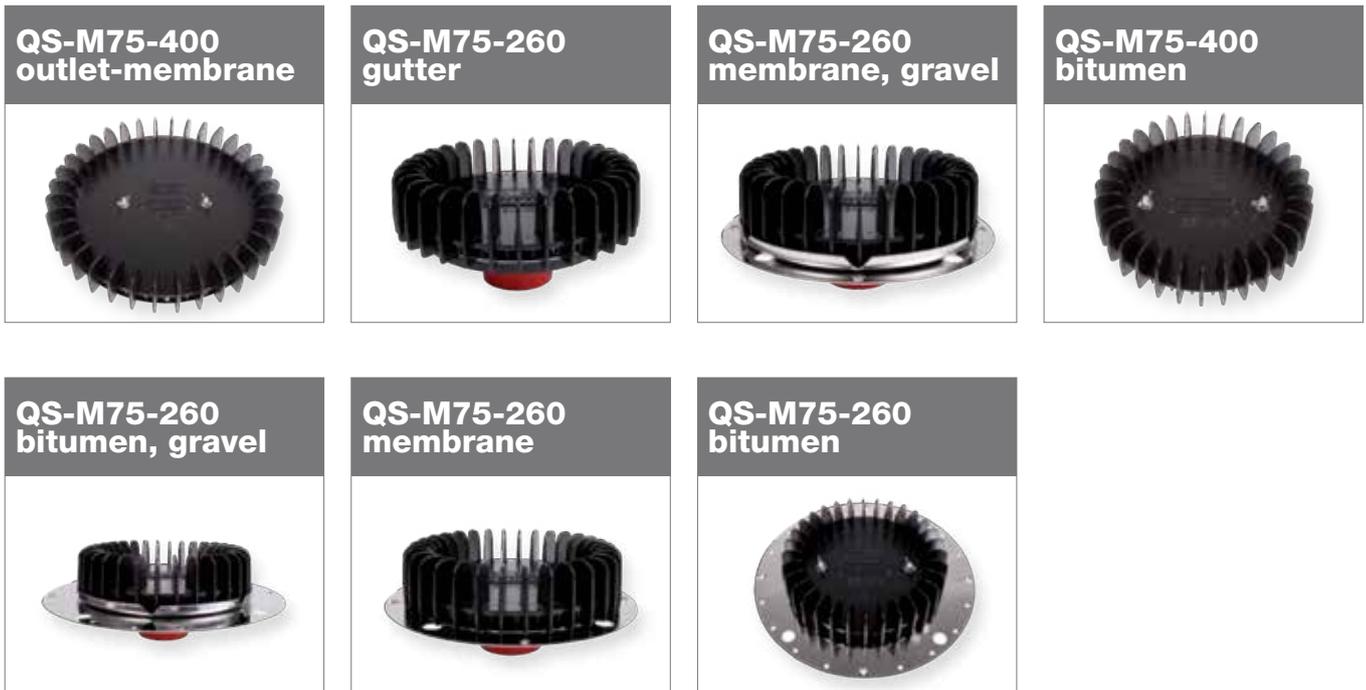
**Siphonic roof drainage technology offers huge benefits to the market, the end-user and the environment. The importance of siphonic drainage systems will only grow further in the coming years, triggered by market developments and the availability of state-of-the-art design tools.**



# Overview

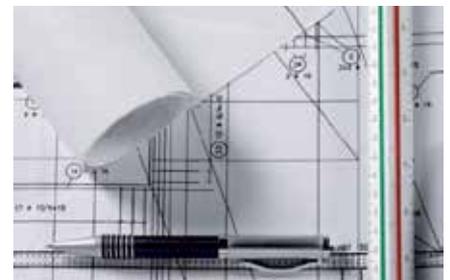
## Wavin QuickStream system

### Roof outlets - Metal



The new metal roof outlets have been tested exclusively at LGA in Germany. The '260' roof outlets have a high nominal maximum flow rate. The '400' models have the same flow rate for a lower water level on the roof. This means fewer of

the new Wavin metal roof outlets are needed to drain the same volume of water than before with similar roof outlets. Testing at LGA proves it. Please contact your local Wavin contact person to support your next project.



Wavin designs and calculates all QuickStream systems in-house using the most advanced software in the business.

Output drawings are in AutoCAD and can hence be easily incorporated in building drawings. You can rely on Wavin for your local or on-site technical (installation) support.

# Designing Wavin QuickStream

## Roof outlets - Plastic

QS-PE-75  
membrane



## Bracketing material

Wavin bracketing  
system



## INTESIO - intelligent storm water solutions from Wavin



A Wavin QuickStream system is connected to subsequent below ground water management system where rainwater is attenuated for re-use or infiltrated back into the soil. From its history, Wavin is specialist in designing and advising on total water management solutions.

These total solutions are brought together in one package: INTESIO storm water solutions. Contact your local INTESIO engineer for more information.

Discover our broad portfolio at [www.wavin.com.tr](http://www.wavin.com.tr)

Hot&Cold Water  
Indoor Climate Solutions  
Storm Water Management

Waste Water Drainage  
Water and Gas Distribution  
Foul Water



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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