

# Ridgistorm-XL Large Diameter Piping System

PRODUCT INFORMATION

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Ridgistorm-XL is an innovative large diameter plastic piping system, available in diameters from 750 – 3000mm and is ideal for pipeline, engineered stormwater attenuation and chamber applications. It is one of the most adoptable large diameter plastic piping solutions in the UK, can be used in all places where traditional products would otherwise be specified and is extremely durable with a design life in excess of 100 years.

## Key Benefits

- Available in diameters 750mm – 3000mm
- Pipe lengths available from 1.25 – 12m
- Stiffness classification can be optimised to site requirements (SN2 - SN16 available)
- Multiple jointing options including seal ring, electro-fusion and extrusion welding
- Integrally socketed system to aid pipe alignment
- Pre-fabricated modularised system incorporating flow control and treatment devices, chambers and fittings
- Lighter weight for reduced plant requirements
- Excellent load bearing capabilities
- Exceptional hydraulic performance achieved through smooth bore
- Highly resistant to sulphate and chemical attack
- Superior performance in areas of differential settlement
- Pre-fabricated dry weather flow channels available
- Saddles available for 150mm lateral pipe connections
- Pushing frames available for improved ease of jointing
- Service lifetime expectancy in excess of 100 years
- 100% recyclable

## Standards and Approvals

- Manufactured to meet the material requirements of BS EN 13476 (Part 1-3) Plastic Piping Systems for Non-Pressure underground Drainage Systems
- WRc approved and BBA/HAPAS certified
- Structural calculations in accordance with BS EN 1295-1 (Structural design for buried pipelines) and under guidance of BS 9295:2020 (Guide to structural design of buried pipes)
- Water Company Approval for Capital Works projects and installation under Section 104 and Section 106 agreement\*
- Compliant with MCHW, Volume 1, Series 500 (Specification for Highway Works)\*\*. For pipes > 900mm dia, approval should be sought through BD2/12 technical approval of highway structures process
- Compliant with the requirements of:
  - Civil Engineering Specification for the Water Industry (CESWI)
  - Sewers for Adoption (SfA)
  - Sewers for Scotland (SfS)
- Manufactured under BS EN ISO 9001 & BS EN ISO 14001 Certified Management System



## Technical Support

Detailed guidance and assistance is available. For further information, please contact our Technical Team on +44 (0) 1509 615 100 or email [civils@polypipe.com](mailto:civils@polypipe.com) or visit [www.polypipe.com/civils-technical-hub](http://www.polypipe.com/civils-technical-hub)



\* We would recommend that local water company approval is confirmed before a final design is complete.

\*\* SHW Series 500 applies to 750 and 900mm only.

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PRODUCT INFORMATION

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## Applications



### Waste Water & Sewer

- Sewer pipelines
- Low flow systems
- Pumping stations
- Valve chambers
- Flow meter chambers
- Inter process pipework
- CSO Storage

### Flood Alleviation

- On-line attenuation
- Off-line attenuation
- Infiltration tanks
- Multi-leg storage
- Low flow systems
- Stormwater run-off
- Culverts

### Infrastructure – Highways & Rail

- Surface water pipelines
- Manholes
- Component chambers
- UTX Chambers
- Culverts



### Renewable Energy

- Commercial rainwater harvesting
- Water to air cooling storage
- Anaerobic digestion vessels
- Biomass plants

### Ventilation

- Earth tubes
- Ventilation ducts
- Baffle housings
- Service access chambers
- Flange connectors
- Landfill ventilation plenums
- Condensate chambers

### Component Chambers & Manholes

- RIDGISTORMAccess - Manholes & Inlet chambers
- RIDGISTORMCheck - Vortex & Orifice flow control chambers
- RIDGISTORMControl - Valve chambers & pump station
- RIDGISTORMSeparate - Catchpits & filter chambers

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