



Ridgiform –XL  
NBS Specification

Example Specification

July 2014

## R12 DRAINAGE BELOW GROUND

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### STRUCTURED WALL PLASTICS PIPELINES

Standard: BBA Cert. 11/4812, 750 & 900mm  
BBA Cert. 10/H159, 750 & 900mm

Manufactured in accordance with BS EN 13476

Manufacturer: Polypipe Civils

Product reference: Ridgistorm –XL

Sizes: 750 – 3000mm

### PIPES, BENDS AND JUNCTIONS – SUPPLY

Pipes and Fittings: From same manufacturer for each pipeline.

Manufacturer: Polypipe Civils

Product reference: Ridgistorm –XL

### PIPES, BENDS AND JUNCTIONS – PLASTICS STRUCTURED WALL

#### **Ridgistorm –XL System**

Pipes are helically extruded thermoplastic structured walled pipes, with system fittings fabricated from extruded pipes of the same minimum stiffness class.

Nominal diameters: 750, 900, 1050, 1200, 1500, 1800, 2100, 2400, 2700 and 3000mm.

SN rating as detailed on Engineering Drawings xxxxxxxxxx

All Ridgistorm- XL modular pipework and fittings shall be manufactured with the same SN rating.

All fabricated bends and branches shall be in direction of flow at all connections.

### CONNECTORS – Waste and Rainwater Pipes for HDPE Drainage

Refer to Polypipe Civils technical guide

### CONNECTORS – SADDLE

Proprietary Ridgistorm-XL flexseal 150mm and 160mm saddle connections in accordance with BS EN 1277:2003 configured to suit pipework profiles.

### FLEXIBLE COUPLINGS –

Ridgistorm-XL modular pipe work and fittings are supplied with integral spigot and sockets, with the following flexible methods of jointing on site available

750mm – 1800mm Ø EPDM ring seals

### STORAGE TANKS – PLASTIC UNITS

Manufacturer: Polypipe Civils

Product reference: Ridgistorm –XL

Ridgistorm-XL modular pipe work and fittings combined to form a structural attenuation/storage tank. Refer to Engineer Drawings xxxxxxx

Inlet Connections: xxx mm

Outlet pipe diameter: xxx mm.

Silt trap: Consult with Polypipe Civils for recommendations and details.

Installation: Consult with Polypipe Civils for recommendations and details.

## SOAKAWAY SYSTEMS – PLASTIC UNITS

Manufacturer: Polypipe Civils

Product reference: Ridgistorm –XL

Ridgistorm-XL modular pipe work and fittings combined to form a structural soakaway. Refer to Engineer Drawings xxxxxxx

Inlet Connections: xxx mm

Outlet pipe diameter: xxx mm.

Silt trap: Consult with Polypipe Civils for recommendations and details.

Installation: Consult with Polypipe Civils for recommendations and details.

## GEOTEXTILE MEMBRANES – FILTER

The permeable geotextile (infiltration structure) encapsulation of the 'tank' shall be completed in accordance with the manufacturer's requirements. It should be noted that the geosynthetic manufacturer may recommend the use of an additional protective geotextile fleece be incorporated within the works.

## GEOTEXTILE MEMBRANES – IMPERVIOUS

The geomembrane (attenuation structure) encapsulation of the 'tank' shall be completed in accordance with the manufacturer's requirements. It should be noted that the geosynthetic manufacturer may recommend the use of an additional protective geotextile fleece be incorporated within the works.

## LAYING PIPELINES

Pipe bed and surround material shall consist of natural and/or recycled coarse aggregate complying with BS EN 13242. Refer to Engineering Drawing xxxxxxx Backfilling in accordance with the Building Regulations, BS EN 752, Sewers for Adoption, CESWI, MCHW, Volume 3 and will only be carried out after the works have been inspected and approved.

Mechanical compaction will not be employed until 600mm of cover has been placed to protect the pipes from the effects of this equipment. Heavy mechanical plant will not be allowed to run over the pipeline until all the backfill has been consolidated.

Where the pipe run detailed on the engineers drawings is shallower than the manufacturers recommended minimum for the expected load conditions, concrete protection will be required as detailed on the Engineers drawings. Consideration should also be given to any further requirements of the approving and/or adopting organisation.

## JOINTING PIPELINES

Ridgistorm-XL pipe work and fittings are supplied with integral spigot and sockets, with the following two methods of jointing on site available, as standard:

- a) 750mm – 1800mm Ø EPDM ring seals
- b) 750mm – 3000mm Ø. Electro-fusion

## INSTALLING ACCESS POINTS

Access/ Inspection turrets to be positioned as detailed on the Engineering Drawings and installed in accordance with manufacturer's requirements/recommendations and good practice.

## INSTALLING INSPECTION CHAMBERS – PLASTICS

The Installer will provide apparatus for the off-loading and handling of fabricated modular chambers in accordance with manufacturer's requirements / recommendations and good practice. Where practicable, chambers shall incorporate lifting lugs for ease of handling, and any manholes suffering damage resulting from any means, will be immediately rejected from the site. Making good of damaged chambers will not be permitted

## INSTALLING UNDERGROUND STORAGE TANK UNITS

The Installer will provide apparatus for the off-loading and handling of modular pipework and fittings in accordance with manufacturer's requirements / recommendations and good practice. Any pipework or fittings suffering damage resulting from any means will be immediately rejected from the site. Making good of damaged components will not be permitted

## AIR TEST (NON-PRESSURE PIPELINE)

Temporarily seal low ends of drains and connections.

Connect glass 'U' tube gauge to drain plug in length of drain under test.

Pump air into test section 100mm water gauge for pipelines or where gullies and/or ground floor appliances are connected, of slightly more than 50mm water gauge.

Allow five minutes for stabilisation of air temperature.

Adjust air pressure to 100mm or 50mm water gauge as necessary.

Without further pumping, the head of water should not fall by more than 25mm in a period of five minutes for a 100mm water gauge test pressure, and 12mm for a 50mm water gauge test pressure.

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