

# SPECIFICATIONS

## SOIL TIGHT SOLFLO MAX

### SCOPE

These specifications apply to all 100 mm (4 in) to 1500 mm (60 in) diameter Solflo Max pipes used for drainage and water course piping.

### PIPE REQUIREMENTS

Pipes shall be Solflo Max, manufactured with smooth interior and corrugated exterior walls.

- 100 mm (4 in) to 1200 mm (48 in) diameter pipes shall be certified as per standards BNQ 3624-120 and CSA B182.8 (Class A) and shall be 6 m (19.68 ft) long minimum.
- 1050 mm (42 in) pipes will be 3.3 m (10.8 ft) long minimum.
- 1500 mm (60 in) diameter pipes shall be certified as per standard AASHTO M294 (105 kPa), will comply with BNQ 3624-120 and CSA B182.8 (Class A, R95) standards and be 6 m (19.7 ft) long.

### RAW MATERIALS

Pipes shall be made from a polyethylene resin that complies with properties classification as defined by ASTM D3350 standard:

- Class A : PE 435400
- Class B : PE 424420

### JOINT PERFORMANCE

- 100 mm (4 in) to 250 mm (10 in): double bell snap (DBS) (safety catch) to ensure proper positioning on pipes.
- 300 mm (12 in) to 1200 mm (48 in): double bell with clips (DBC) to ensure proper pipe insertion.
- 1050 mm (42 in) and 1500 mm (60 in): bell with O-Ring gasket (BG) installed by the manufacturer onto the male end, covered by a protective film for shipping. The assembly shall be certified as per standard AASHTO M294.

### ACCESSORIES

- Accessories from 100 mm (4 in) to 1200 mm (48 in) will be manufactured according to specified requirements in the standards BNQ 3624-120 and CSA B182.8.
- Accessories from 1500 mm (60 in) will be manufactured according to specified requirements in the standards AASHTO M294.
- **Service connections for PVC pipes:**  
Service connections for 100 mm (4 in) to 200 mm (8 in) diameter PVC pipes shall be monolithic (factory welded), as required by standard BNQ 1809-300, and equipped with an integrated O-ring gasket.
- **Solflo Max connections to a concrete structure:**  
Every connection to a concrete structure shall be made with a monolithic HDPE adapter whose end to be connected to the structure will be provided with a smooth exterior wall and at the other end with a bell with clips (BC), as required by standard BNQ 1809-300. PVC and urethane adapters will not be permitted.
- Accessories shall be factory welded, both outside and inside, when this side is accessible.

### DIMENSIONS AND QUANTITIES

Dimensions and quantities shall comply with tender documents and drawings.

### INSTALLATION

Installation shall be carried out in compliance with standard BNQ 1809-300, and following Soleno's recommendations. Contact the Soleno representative in your region or visit our website at [www.soleno.com](http://www.soleno.com) for installation recommendations.