



SPECIFICATIONS

PERFORATED OR PERFORATED AND FILTERED SOLFLO MAX

SCOPE

These specifications apply to all 100 mm (4 in) to 1,500 mm (60 in) diameter perforated Solflo Max pipes used to collect surface runoff and control the ground water level.

PIPE REQUIREMENTS

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

- 100 mm (4 in) to 900 mm (36 in) diameter pipes shall be certified as per standards BNQ 3624-120 (Class A) and CSA B182.8. They shall have minimum stiffness of 320 kPa and be 6 m (19.7 ft) long minimum.
- 1050 mm (42 in) diameter pipes shall be certified as per standards BNQ 3624-120 (Class A) and CSA B182.8. They shall have minimum stiffness of 140 kPa and be 3.3 m (10.8 ft) long minimum.
- 1200 mm (48 in) diameter pipes shall be certified as per standards BNQ 3624-120 (Class A) and CSA B182.8. They shall have minimum stiffness of 125 kPa and be 6 m (19.7 ft) long minimum.
- 1500 mm (60 in) diameter pipes shall be certified as per standard ASTM 2648, AASHTO M294 (105 kPa), will comply with BNQ 3624-120 (Class A, R95) and CSA B182.8 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

PERFORATIONS AND FILTERS

Perforations shall be Type 2, in compliance with standard BNQ 3624-120. Total perforation area shall be at least 32 cm² per meter (4.96 in² per foot) of length. The filter shall be made from a Routex IV geotextile, be certified with standard BNQ 7009-210, with Soleno Textile factory-installed UV protection.

JOINT PERFORMANCE

- 100 mm (4 in) to 250 mm (10 in): double bell snap (DBS) (safety catch) ensuring proper positioning on pipes.
- 300 mm (12 in) to 900 mm (36 in) and 1200 mm (48 in): bell with clips (BC) welded to pipe ensuring proper pipe insertion.
- 1050 mm (42 in) and 1500 mm (60 in): bell with gasket (BG) installed by the manufacturer onto the male end, covered by a protective film for shipping.

ACCESSORIES

- 100 mm (4 in) to 1500 mm (60 in): accessories will be manufactured according to specified requirements in the standards BNQ 3624-120 and CSA B182.8.
- **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 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 an o-ring bell gasket (BG) for 100 mm (4 in) to 250 mm (10 in) connections, a bell with integrated gasket (BIGC) for 300 mm (12 in) to 900 mm (36 in) and 1200 mm (48 in) connections or with an o-ring bell gasket (BG) for 1050 mm (42 in) and 1500 mm (60 in) connections, 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 solenio.com for installation recommendations.