

Uponor IQ infiltration pipes

Storm water management

uponor

EN: Installation manual

FI: Asennusohje

SE: Installationsanvisning

DK: Installationsvejledning

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1 Installation

1.1 Uponor IQ infiltration pipes

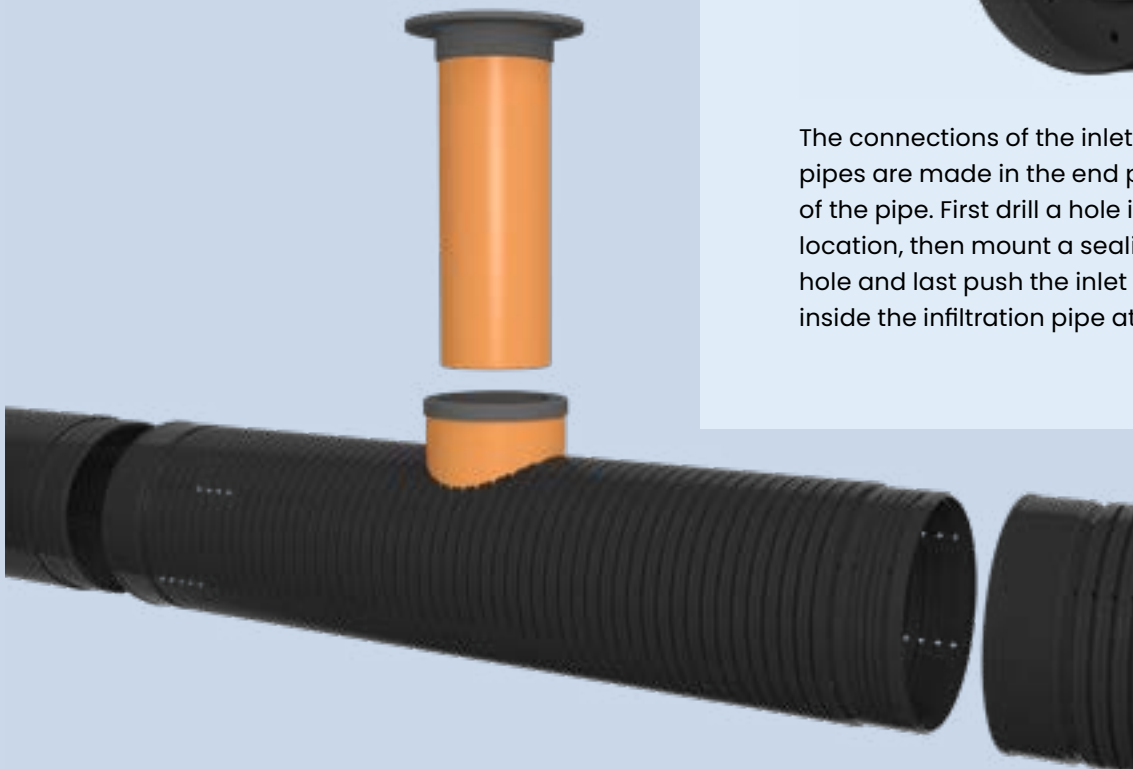
IQ infiltration pipes are available in diameters 600mm with a length of 2.8m and 1200mm with a length of 2.6m. The ends of the pipeline are plugged with perforated end caps. The infiltration pipes are installed at the same time way as traditional pipes but only without sealing rings. The pipes are connected into a pipeline of the desired length. System can also be built sideways and several pipelines can also be installed in parallel.

The distance between parallel infiltration pipelines shall be minimum 0.6 m. A geotextile is used between the fill gravel and the base soil. Lay a layer of gravel with minimum 10 cm thickness under the infiltration pipes. Suitable grain size is 16-32mm or larger. Also as filling material a wreath is used, whose grain size is 16-32mm. Filling material is installed directly against the pipe.

Inspection pipes are installed in all pipelines. The recommended distance between inspection pipes is max 50 m. An *Infiltration pipe with 315 mm inspection pipe connection* is installed in the pipeline at the location of an inspection pipe. A cast iron cover is most commonly used as a cover solution. If the installation conditions allow, plastic or stainless steel covers are also possible to use.



The connections of the inlet and outlet pipes are made in the end plug or on top of the pipe. First drill a hole in the wanted location, then mount a sealing ring in the hole and last push the inlet or outlet pipe inside the infiltration pipe at least 20cm.



1.2 Installation of end plugs. Pipe Ø600mm.

Socket end, size 600mm

1. The pipe is placed on a 10cm bed of macadam.



2. Turn the end plug away from you when installing.



3. Slide the end plug into the socket.



4. The end plug is fitted and the infiltration ready to use.



1.3 Installation of end plugs. Pipe Ø600mm.

Plug head, size 600mm

1. The pipe is placed on a 10cm bed of macadam.



2. During assembly, the end plug is threaded on the outside the infiltration pipe.



3. Slide the end plug into the socket.



4. The end plug is fitted and the infiltration ready to use..



1.4 Installation of end plugs. Pipe Ø1200mm.

Socket end, size 1200mm

1. The pipe is placed on a 10cm bed of macadam.



2. Turn the end plug away from you when installing.



3. Slide the end plug into the socket.



4. Slide the end plug into the socket.



5. The end plug is fitted and the infiltration ready to use.



1.5 Installation of end plugs. Pipe Ø1200mm.

Pointed end, size 1200mm

1. The pipe is placed on a 10cm bed of macadam.



2. Turn the end plug away from you when installing.



3. Slide the end plug into the pipe



4. Attach the end plug with a couple of screws



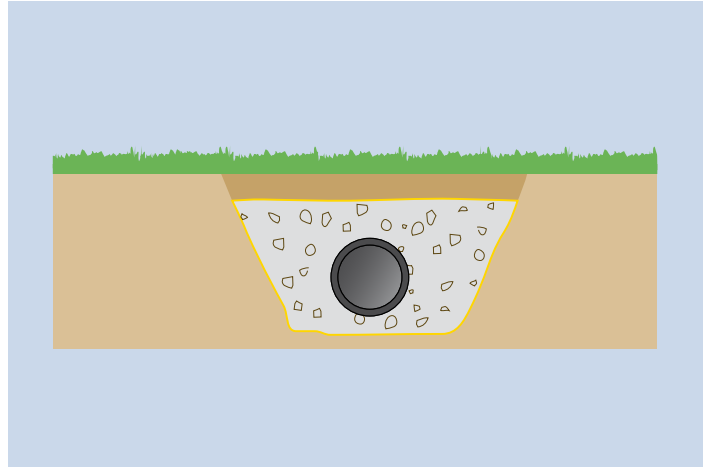
5. The end plug is installed and the infiltration ready to use.



1.6 Installation at traffic load

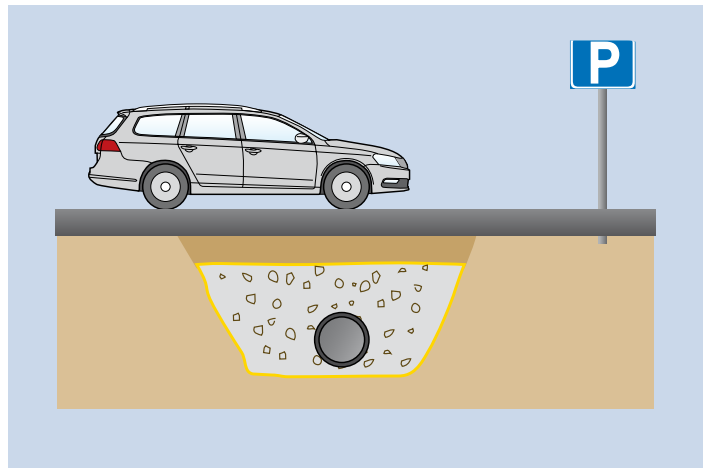
Untrafficked surface

The infiltration tube is placed on a 10 cm bed of macadam*. Overfill at least 30 cm*. The geotextile is preferably placed between the surrounding filling material and surrounding land.



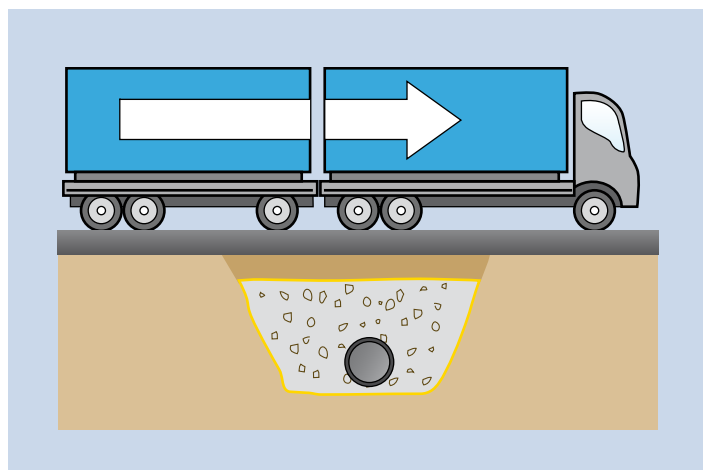
Low traffic area

The infiltration pipe is placed on a 10cm bed of macadam*. Overfill at least 60cm*. The geotextile is preferably placed between the surrounding filling material and surrounding land.



Heavily trafficked area

Use Uponor IQ stormwater pipes. Placed on a 10cm bed of macadam*. Repletion at least 80cm*. The geotextile is placed preferably between the surrounding filling material and surrounding land.



* Conduit bed and surrounding filling is carried out according to AMA 10 Facility

**Moving
> Water**

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