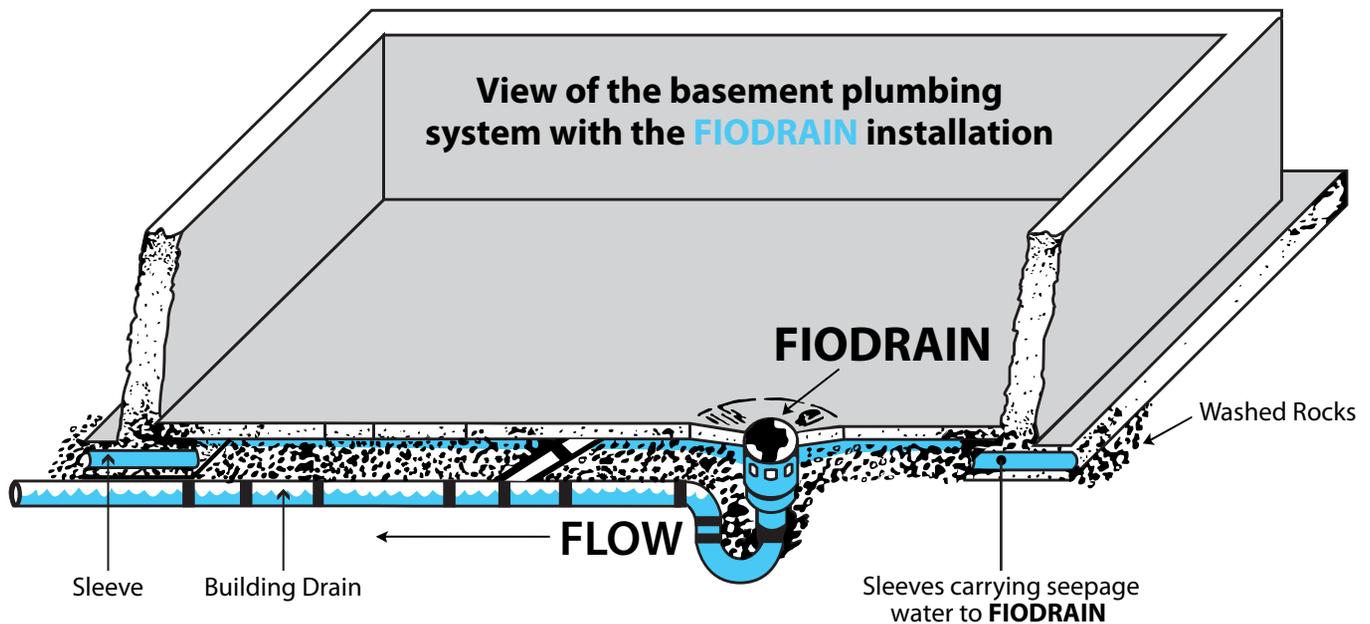
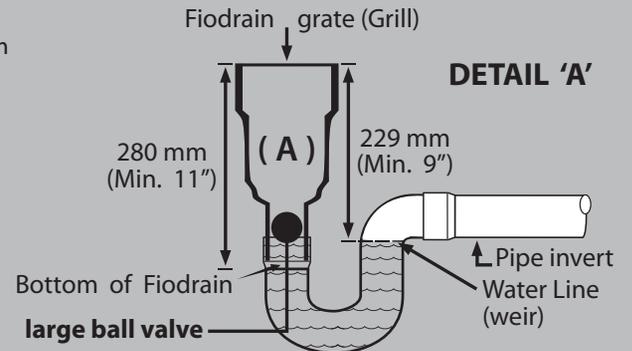


Fiodrain Installation Instructions

Prior to installing the **FIODRAIN** it is recommended that the sewer pipe invert be 255 mm (10") or a minimum of 229 mm (9") from the floor surface so the **LARGE BALL** Valve can work effectively (see detail "A" below).

NOTICE: On existing installations – if the sewer line is less than 229 mm (9") from the floor, the **FIODRAIN** can still be installed in one of three ways.

1. The location of the **FIODRAIN** can be moved downstream of the sewer line until required depth is reached.
2. The **FIODRAIN** spigot (tail end) can be shortened within the above specifications to meet your elevation needs.
3. Large ball can be removed – however this eliminates one function (the main backwater valve).



Installations for Existing Basements

1. Using Electric jackhammer or concrete saw and sledgehammer, cut or break the concrete floor around the present floor drain in a 1 meter (3 ft.) diameter.
2. Save the broken concrete pieces 50 mm (2") in a diameter or smaller, for gravel fill.
3. Using a hacksaw cut off the existing trap and drain, and remove.
4. Make one channel or more 280 mm (11") wide by 250 mm (10") deep to the wet area(s).
5. Remove sand and soil from channels, replace with broken concrete 50 mm (2") and cover with 20 mm (3/4") washed, crushed rock. Pack rock around **FIODRAIN** ports and into the channels.

PRECAUTIONARY NOTE

Before pouring concrete, cover rocks and **FIODRAIN** with a sheet of poly. Care must be taken to ensure that the **FIODRAIN** ports and rocks are not filled with concrete.

Special installation applications

Wood basements, crawl spaces:
sump pits replaced by **FIODRAIN**

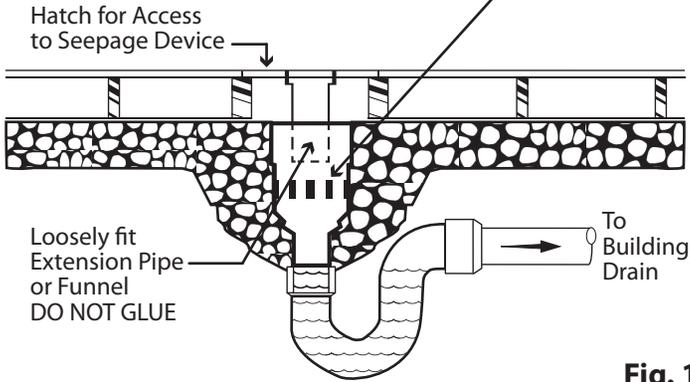


Fig. 1

Subsoil Drainage

Converging plate with no perforations is loosely fit on floor for easy access to **FIODRAIN**

Drainage through **FIODRAIN** Grill

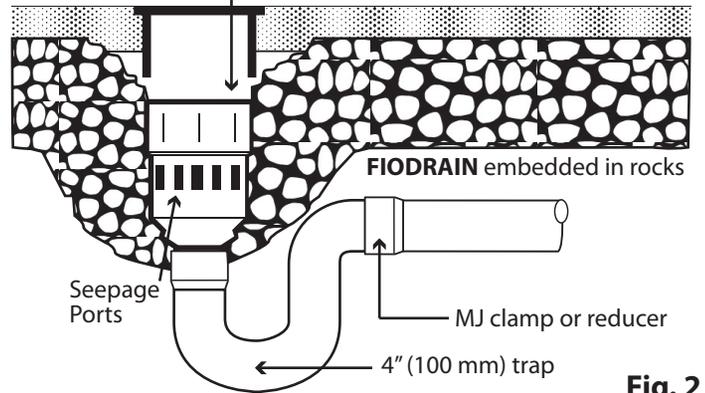


Fig. 2

FIODRAIN embedded & extended with a SLEEVE to floor level

Drainage through FLOOR GRATE Loosely fit GRATE (grill)

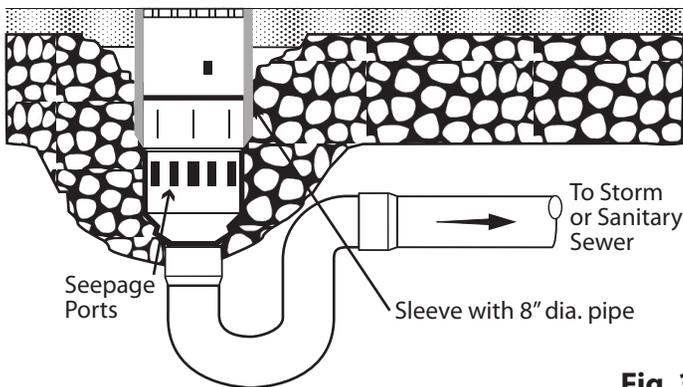


Fig. 3

Cleaning and Dismantling of FIODRAIN

1. With a wire hook, pull up floor grate.
2. Remove positive shut-off, turning it as you pull.
3. Slide U-shaped wrench ends downwards into the slots located inside the body. To remove, turn counter-clockwise.
4. Pull up the small ball seat and remove the two small balls.
5. Pull up the large ball seat and remove the large ball.
6. To reassemble, reverse steps 1 to 5 – ensure grate is set to open position.

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