



easi-base installation guide

Rev. B

fpmccann.co.uk/easibase

The FP McCann Easi-Base manhole installation system can be installed in as little as an hour from base to cover slab. Traditional methods of construction involving manual benching and channelling typically take up to 48 hours for the curing on concrete and mortar at each stage of the build.

Jointing Easi-Base to the Pipeline

The Easi-Base manhole system is supplied with rubber inlet/outlet F-910 connector seals set within the bell which are cast in to accommodate a range of plastic pipes in the UK market.

To allow for any differential settlement between manhole and pipeline, Sewers for Adoption requires a flexible joint at the pipe interface with the base unit. A short length pipe and rocker pipe should be used. Care must be taken to ensure the joints are properly made.

General Jointing

- Ensure that the rubber F-910 connector seal is in position at the inlet/outlet of the manhole base
- Pipe faces to be jointed should be square, chamfered and clear of any snags or sharp edges
- Lubricate the connecting pipe with an approved FP McCann lubricant

- Push the pipe squarely into the inlet/outlet seal until fully inserted (if mechanical means is required, ensure the end of the pipe is protected to avoid damage)
- Check that the seal is watertight and that the gradient and line of the pipe is acceptable
- A degree of deflection is achievable, this may vary depending on pipe type and size
- Allow for a short length rocker pipe for flexible pipelines
- For ribbed pipes it is essential that the plastic pipe seal is fitted as per manufacturers guidance and that the pipe is lubricated prior to inserting into the F-910 connector seal
- When jointing connections into Easi-bases in cold weather, the F-910 seal should be brought back to temperature by placing in a site office or machine cabin. Warming the seals during cold conditions helps, especially during minus temperatures or if the bases have been store with seals in for some time, Warming the seals energises the rubber making the joint easier to make.



1. The base of the excavation is prepared.



2. Suitable granular material is added.



3. Bedding material is compacted and levelled to provide a solid bed.



4. The easi-base unit is safely lifted and lowered into place using 3 integral lifting loops.



5. Prior to connecting, the pipes are lubricated using an FP McCann approved lubricant. When positioning the base the outlet point is indicated by an embossed arrow.



6. The easi-base unit is set level, a gradient of 1:10 is present at the benching with a run-off towards the outlet.



7. A degree of deflection is achievable, this will vary depending on pipe type and size.



8. Integral lifting loops are then removed from the easi-base unit.



9.

00:06:31:12

Back filling around the connection pipes protects the joint and outlet pipe from damage.



10.

00:10:04:00

Before building on the easi-base with chamber rings, it is recommended the a bitumen sealant strip be used.



11.

00:13:01:08

Once compressed between jointing faces, the strip will provide a permanent seal. It is important to overlap the sealant strip.



12.

00:20:01:14

The DN1200 easi-base shown can accommodate both standard 90mm thick manhole chamber or as shown the 130mm wide wall manhole chamber ring.



13.

00:25:02:12

The processes of sealing the jointing faces is repeated



14.

00:35:02:05

The remaining rings are placed to build up to manhole cover slab level.



15.

00:37:06:22

Once the cover slab is installed, the back filling process can begin.



16.

00:42:09:17

In the case of the wide wall manhole chamber ring, the robust design means the requirement for a concrete surround is eliminated.



17.

00:48:01:13



18.

From start to completion, most manhole installations using the FP McCann easi-base system will take less than an hour.

Easi-Base 1500/1800 Installation Guide

The Easi-Base manhole system is supplied with rubber inlet/outlet F-910 connector seals set within the sockets which are cast in to the base. This allows for the flexible connection of pipes to manholes. Rubber seals are available to suit clay, concrete, iron and the wide range of plastic pipes available in the UK market. A recess can also be cast to allow for butt jointing on site.

To allow for any differential settlement between manhole and pipeline, Sewers for Adoption requires a flexible joint at the pipe interface with the base unit. A short length pipe and rocker pipe should be used. Care must be taken to ensure the joints are properly made.

General Jointing

- Ensure that the rubber F-910 connector seal is in position at the inlet/outlet of the manhole base
- Pipe faces to be jointed should be square, chamfered and clear of any snags or sharp edges
- Lubricate the connecting pipe with an approved FP McCann lubricant
- Push the pipe squarely into the inlet/outlet seal until fully inserted (if mechanical means is required, ensure the end of the pipe is protected to avoid damage).
- Check that the seal is watertight and that the gradient and line of the pipe is acceptable.
- For ribbed pipes it is essential that the plastic pipe seal is fitted on the last rib of the pipe and that the pipe is lubricated prior to inserting it into the F-910 connector seal.
- When jointing connections into Easi-bases in cold weather, the F-910 seal should be brought back to temperature by placing in a site office or machine cabin. Warming the seals during cold conditions helps, especially during minus temperatures or if the bases have been store with seals in for some time, Warming the seals energises the rubber making the joint easier to make.

