

Systematic Pipe Rehabilitation



**Installation Procedures /
Large Profile Rehabilitation**

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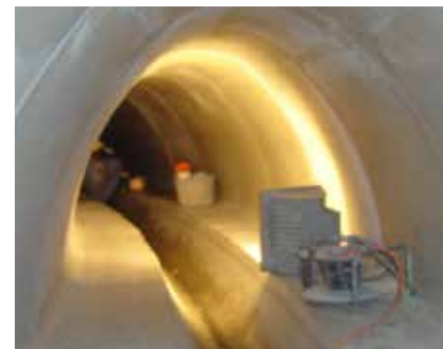
Installing the modules with the aid of a carriage



Start pit



Full section pipes



Rehabilitated sewer with a dry weather flow

The product

These so-called installation procedures include the short pipe relining with prefabricated pipes as well as the full or the partial lining. Hereby circular profiles or pipes with special sections such as egg-shaped, box-shaped or kite-shaped profiles are inserted as a solid module or a separate element via building pits into the sewer to be rehabilitated and mounted respectively fixed there with the aid of mounting equipment. The applied pipe materials are for instance glass-fibre reinforced plastics (GRP), high-density polyethylene (HDPE) or polymer concrete (PC).

The field of application

Mounting respectively lining procedures are perfectly suitable for the repair of accessible sewers. Particularly worth mentioning: the pipes rehabilitated with this method have a static stability of their own.

The installation

a) Short pipe relining
After the preparation of start and target pit, the provided circular-type pipes or pipes with special profiles are lifted into the start pit by means of a suitable hoist

and put down on a mobile steel-frame construction (mounting carriage). In the next step the new pipe pieces are hydraulically lifted. Then a winch, installed in the target pit, draws this carriage into the reach to be rehabilitated, the transport to the installation point being permanently controlled by a worker and, if need be, corrected by hand. When the installation point has been reached, the new pipe is hydraulically lowered and sleeve and spigot end are brought together. As soon as the position of the pipe run has been

Installation... and quick rehabilitation



Positioning of the pipe carriage for receiving the relining section



Joining the GRP short pipes

GRP short pipes 2100/1575 with a taper cross-section stored on site

The advantages

secured, the ring gap is backfilled with a highly flowable grout.

b) Full or partial lining

Pipe elements are entered via a shaft or a building pit into the reach to be rehabilitated and transported on the mounting carriage to the installation point. Here the new pipe pieces are either dowelled, screwed or adhered to the old pipe. The waterproof connection of the produced pipe joints takes place in a further work step.

This is a reliable rehabilitation procedure with a high technical and economic potential. Thanks to the special tools developed by D&S for the individual situations, the installation procedure of the new pipe is flexible and precise. This mounting procedure does without costly transfer pumping, which becomes necessary in some other rehabilitation procedures.

Just as important: interruptions in case of unexpected rainfalls are manageable at short notice and without any damage. Work can be continued at a later date with

a minimum of time and effort. Pipelines rehabilitated with this installation procedure are characterised by a high resistance against aggressive waste water. A connection to reaches with pipelines lined with HDPE or GRP can also be realised without any considerable time and effort.



- BlueLine Procedure
- Burst Lining
- Cement Mortar Lining
- Compact Pipe
- CP-ZA 2012-Top-Hat Profile
- DS-CityLiner
- DS - Hose Relining
- DynTec (close-fit-lining)
- Flexoren Relining
- House and Industry Liner
- Installation Procedures/ Large Profile Rehabilitation
- KA-TE Robotics
- Manual Rehabilitation
- Partial In-Liner
- Pipe Relining (long pipe, short pipe and pipe run)
- Polyester Liner
- Superheated Steam Liner
- UV Liner
- and other procedures

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