

## Installation guide

### Installation

A significant task falls upon the installer, who, in the final analysis, determines the practical value of a drainage installation. The superior quality of our pipe material and the first-class processing of our products help him in this task.

Drainage installations have to be able to be constructed without problems and work without malfunctions. Any connection problem can be quickly and economically resolved by the availability of an extensive range of fittings.

The fully technically developed socket joint enables rapid and simple plug-in assembly, just by turning the pipe and the fitting in the socket.

Steel pipes and fittings are easy to handle, impact-resistant and shock-proof, unaffected by rough treatment during processing.

The GM-X Drain pipe range can also be supplied with two sockets. When a pipe is cut to size, there is a piece left over with a

socket, which can be used as an extra fitting piece.

Steel drain pipes and fittings - together with the characteristic plug-in socket joint - give the installed drain pipe a practically self-supporting stability. The use of pipe clips and holding devices is only necessary at a few places in the installation.

### Pipe fixing

For horizontally laid pipes, the dead weight of the pipe plus the possible water content and the number of fixing points are to be taken into account when choosing fixing materials. The following GM-X fixing devices can be supplied:

- Securing clips for axial thrust and for suspending the pipes (perforated belt or steel hoop)
- Pipe clips with knock-in pin or rod for welding on without sound-proofing insert
- Pipe clips for threaded pin with or without sound-proofing insert

DN	Weight
40	2.9 kg
50	4.0 kg
70	7.0 kg
80	9.4 kg
100	12.8 kg
125	22.0 kg
150	29.0 kg
200	58.0 kg

### Cutting to length

Cutting to length can be done with a pipe cutter, a cutting-off wheel or a saw. Pipes cut to length with a wheel or saw must be de-burred before being inserted in the socket so as not to damage the seal.

### Production monitoring

GM-X drain pipes and fittings are subject to production monitoring by the Bavarian Institute for Technical Building Equipment and Domestic Water Supplies, Würzburg branch.

GM-X seals are subject to third-party monitoring by the North Rhine-Westphalia State Materials Testing Office, Dortmund.



### Quality management

GM-X drain pipes and fittings are subject to production monitoring in accordance to DIN EN ISO 9001.



### Certification

GM-X pipes and special fittings are certified by renowned test registers. This underlines their high operational safety.