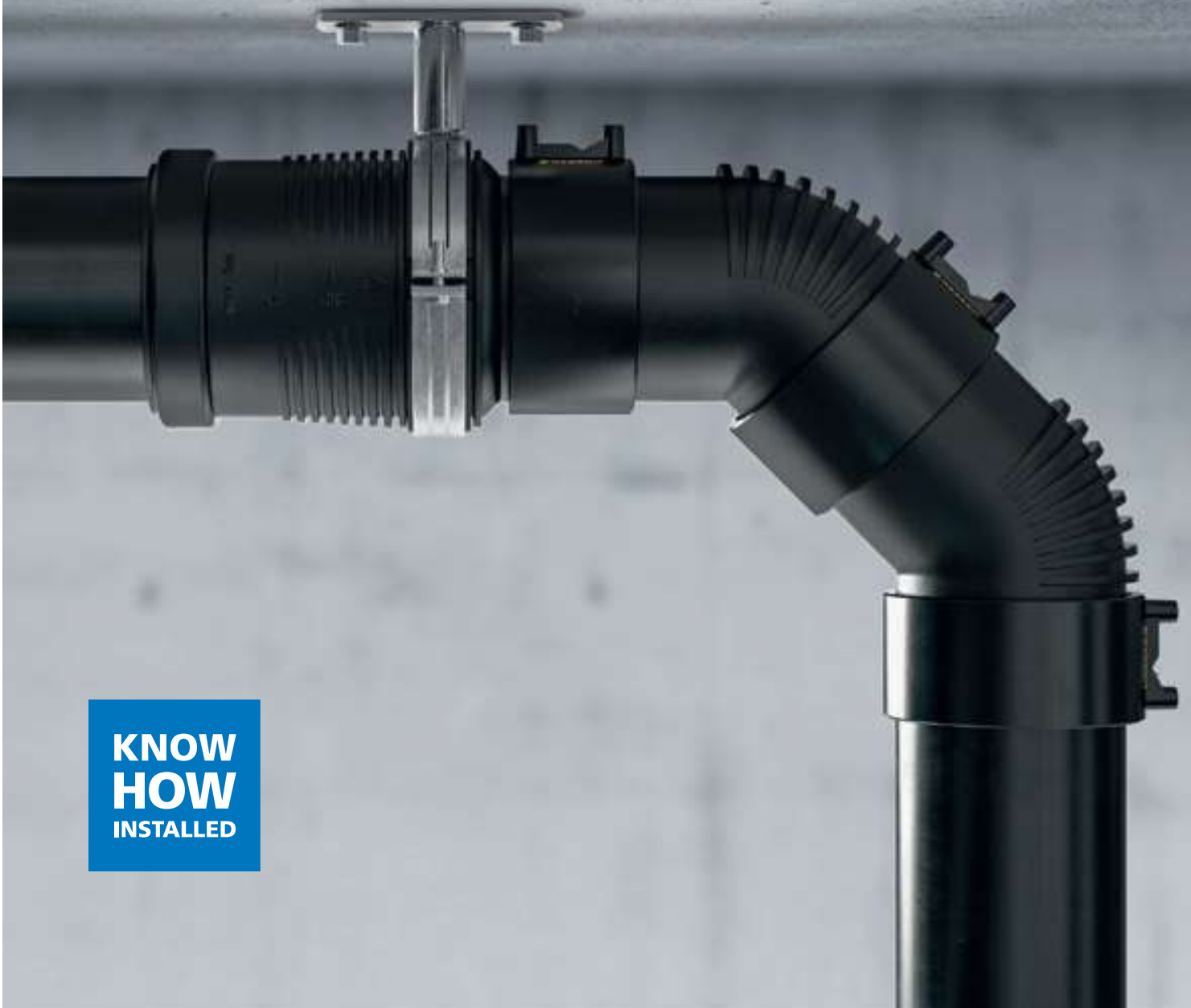


GEBERIT DRAINAGE SYSTEMS

SAFE BET FOR CLEAN DRAINS



**KNOW
HOW**
INSTALLED

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PLAY IT **SAFE**

The piping systems of Geberit stand for know-how in the field of sanitary technology. From the connection to the water supply through to the distribution on the floor to the consumers, all the way to the drainage of roofs and buildings into the public sewage system, you can rely on Geberit systems.

With Geberit, you can provide your customers with state-of-the-art technological solutions in the areas of hydraulics, fire protection and sound insulation, reliability and environmental properties.



GEBERIT'S SYSTEMATIC APPROACH TO TECHNOLOGY

WHEN EVERYTHING MATCHES AND FITS

Drainage means more than simply draining off water – at least for Geberit. To ensure that its drainage technology can keep up with reality on the building site and with the high fire protection and sound insulation requirements, Geberit invests lots of know-how into developing innovative products.

ALWAYS ROOM FOR IMPROVEMENT

Geberit is the market leader in the area of sanitary technology in Europe. This is particularly true in the field of building drainage. Hardly any other company in this sector invests as much year after year in continually optimising existing systems and in developing new technologies and products as Geberit.

SAFETY IN THE SYSTEM

The fire protection and sound insulation of a drainage system are only ever as good as their weakest component. If you combine elements from different manufacturers, you risk compromises at the interfaces. This also makes it more difficult to comply with current standards and regulations. Geberit therefore provides complete systems with a warranty and the necessary documentation for your project. You can therefore offer your customers a proven high degree of protection against the spread of fire through the discharge pipes. Furthermore, with the sound insulation expertise of Geberit, you can ensure that waste water noise is minimised in private houses, public buildings, hotels and business premises.

SYSTEM SOLUTIONS WITH HIGH FLEXIBILITY

For Geberit, the waste fittings are the visible part of the waste water installation, which, together with the Geberit piping systems, form a homogeneous unit with simple interfaces. Geberit waste fittings also form perfect connections with the sanitary appliances. Regardless of whether the bathroom design needs to fulfil the highest expectations, barrier-free applications are required or the construction simply needs to be as space-saving as possible: Geberit has the right solution.

GO WITH THE PROS

The success of a product or technology goes hand in hand with its practicality at the building site and its economic efficiency. For this reason, the feedback and suggestions provided by plumbers from across the globe are taken into account for all new innovations and further developments. This means that Geberit products

- Future-proof drainage systems
- Reliable compliance with sound insulation and fire protection standards
- Safe connection technology and waste fittings
- Suitable solutions for almost every application range



SOUND INSULATION, FIRE PROTECTION AND HYDRAULICS CONVENIENCE SAFELY INSTALLED

Contemporary buildings are setting ever-higher requirements, including for drainage systems. To ensure convenience and safety at all times, including during peak loads, Geberit develops hydraulically optimised, innovative products and solutions, which fulfil the requirements for safe installations, fire protection, sound insulation and saving resources to ensure that you and your customers have peace of mind.

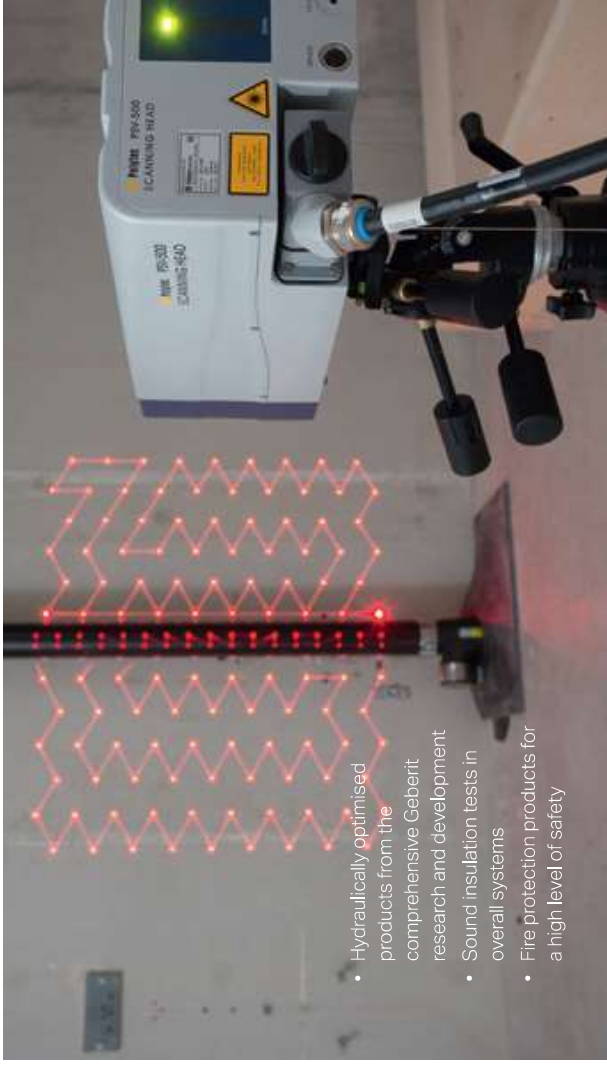


COMPREHENSIVE TESTING AND CONSISTENT DEVELOPMENT

In addition to laboratories for sanitary technology and materials development, Geberit also operates a unique Building Technology and Acoustics Laboratory for testing components and entire drainage systems with respect to their hydraulics and acoustics. Thus, for example, the sound transmission of discharge stacks through several floors can be tested under realistic conditions. For the subject of fire protection, Geberit works closely with external testing laboratories. Both prototypes and series products are subjected to realistic fire tests. Country-specific fire protection requirements are thereby taken into account in full during product development.

WASTE WATER HYDRAULICS CHALLENGE

Empty traps or highly fluctuating water levels in the WC, as well as oversized systems or unnecessary ventilation ducts, are all indications of inadequate planning or installation. This can result in user complaints and significant costs. Geberit anticipates these problems with hydraulically optimised products that are the result of in-house research in the laboratory and on the computer. With the practical training of sanitary engineers and plumbers on Geberit drainage towers, Geberit contributes to knowledge transfer in the area of hydraulics.



- Hydraulically optimised products from the comprehensive Geberit research and development
- Sound insulation products for overall systems
- Fire protection products for a high level of safety

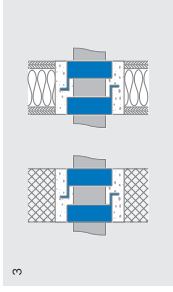
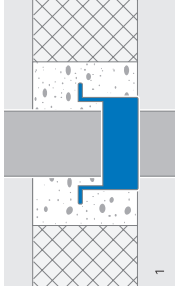
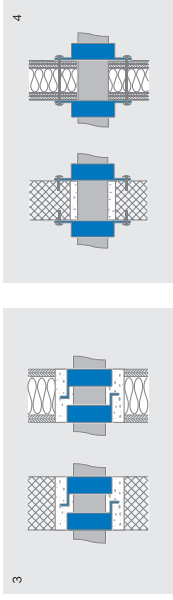
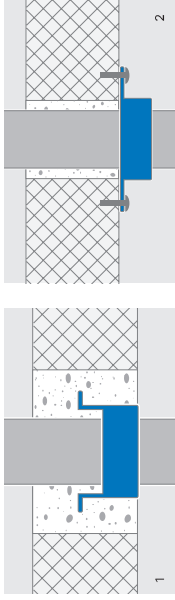
SOUND INSULATION FROM A SINGLE SOURCE

In addition to the piping system with sound insulation, intelligent fastening and insulation technologies ensure that the development of noise from waste water is kept to a minimum. The system pipe brackets for Geberit Silent-dB20, the Geberit sound insulation mat Isol Flex, the insulation hose comprised of HDPE and the self-adhesive sealing tape complete the sound insulation system.

SAFER PROTECTION AGAINST FIRE SPREAD

Wall and ceiling openings as well as installation ducts can make it easier for fires in buildings to spread if they are not sealed in a proper, standard-compliant way. The Geberit fire protection sleeve RS90 Plus seals the pipe opening in case of fire and prevents smoke, fire and heat spreading to other rooms or parts of the building. The fire protection sleeve RS90 Plus can be used with all Geberit drainage systems.

PROOF OF FIRE PROTECTION FOR A LARGE NUMBER OF DIFFERENT CONSTRUCTION SITUATIONS



EXAMPLES

- 1 Installed flush with the ceiling
- 2 Mounted outside on ceiling
- 3 In-wall installation
- 4 Mounted outside of the wall



GEBERIT SERVICES

A STRONG PARTNER FOR EVERY TASK

Quality and innovation are worth a great deal. Equally valuable are reliability, partnership and personal advice. We operate at full steam not only in the development of high-quality products, but also in offering you the services and support you need for your success – even at the building site if necessary.



PERSONEL ADVICE AND SERVICES

We are happy to help. Regardless of whether you need us on the service telephone, in a personal meeting or on site – Geberit is available to you with advice and action everywhere. Whether it be specialist information or technical advice or support for all planning issues, we offer you comprehensive and uncomplicated help. We go the extra mile for your project and also supervise entire building projects on request. And even if something should happen not to work on occasion, you can rely on Geberit's support.

OUR KNOW-HOW FOR YOU

With the comprehensive training courses it offers, Geberit supports the sanitary industry in preparing for the challenges of the future. In our own seminars, via webinar or directly at your building site, we share our knowledge with you and thereby contribute to our shared success. We provide you with helpful media for a large number of questions and tasks, from manuals to installation videos.

DIGITAL PLANNING SUPPORT

Successful sanitary projects start with good planning. With the Geberit ProPlanner planning software, the practical app Geberit Pro and numerous other tools, we support you in your day-to-day operations.



GEBERIT BIM PLUG-IN PLUG-IN AND PLAN

GEBERIT BIM PLUG-IN FOR AUTODESK® REVIT®

The plug-in is available to download free of charge.
Here's how it works:

1. Download the plug-in from the Geberit:
www.geberit-global.com/BIM
2. Log in and install the plug-in



PLUVIA MODULE
For calculating the hydraulic
certification and dimensioning for roof
drainage with Geberit Pluvia directly in
Autodesk® Revit®.

Digital planning and construction using the BIM method has brought about fundamental changes in the construction industry. The holistic and model-based approach means that planning and construction processes can also be optimised and accelerated within the sanitary industry. Geberit's aim is to create simple and innovative solutions that offer sanitary engineers, architects and contractors added safety and greater cost-effectiveness. And with the new Geberit BIM Plug-in for Autodesk® Revit®, another important step has been taken in the right direction.

STRAIGHTFORWARD SANITARY PLANNING

Finding up-to-date, complete and valid BIM content that is easy to manage is often a challenge in itself. The Geberit BIM Plug-in offers a reliable, integrated solution that meets all the needs for a straightforward and correct planning process.

AS CURRENT AS IT GETS

The direct connection to the Geberit product information management (PIM) system ensures that the user only uploads tested and approved BIM objects. This prevents the opportunity for planning errors caused by faulty or invalid BIM content.

WORLDWIDE PLANNING APPLICATIONS

The ability to select a specific language and region allows the Geberit BIM Plug-in to be used worldwide. What's more, local product catalogues also ensure that only products that are available locally are used.

MANUFACTURER-NEUTRAL TENDERS

Public projects are often tendered on a manufacturer-neutral basis. This is why Geberit BIM content can be changed to generic designations with a simple click in the built-in parameters. Once the tender is over, this can be reset so that the time-consuming replacement of objects in the BIM model is no longer necessary.

LIGHTWEIGHT AND HANDY BIM OBJECTS

Geberit relies on highly simplified, parametric geometries with all the metadata that is relevant for planning in the background. This avoids overloading CAD systems from the outset and allows for efficient planning. Despite their highly simplified geometry, Geberit BIM objects meet the requirements of all planning and construction phases, right through to facility management.

FLEXIBLE INSTALLATION

The Geberit BIM plug-in offers a whole host of advantages for efficient, model-based prefabrication with the greatest possible freedom when it comes to the arrangement of the components to be prefabricated:

- All fittings equipped with the article-specific Z-dimensions
- Segmenting length wizard for splitting the pipe runs into deliverable lengths
- Numbering wizard for the free designation of components and individual section
- Model-based tendering with Geberit article numbers possible
- Exportable overview list for easy labelling and connection of parts on the building site



- Effective sound insulation
- High discharge capacity
- Varied options of use
- Available in all standard dimensions



GEBERIT SILENT-DB20

ROBUST CONNECTION FOR STRONG SOUND INSULATION

Be it in a residential estate, a hotel or a meeting room: Noisy drainage pipes are a nuisance. This problem does not even occur with the Geberit Silent-db20 drainage system. The sound and hydraulically optimised pipes and fittings are suitable not only for stacks but also for floor connections and ensure quiet and effective drainage in any building.

EFFECTIVE SOUND INSULATION

The high inherent weight of Silent-db20 means that its natural vibrations are reduced and the sound is noticeably absorbed. The product design with special sound insulation ribs also reduces the noise on the impact zones.

SPACE-SAVING CONSTRUCTION

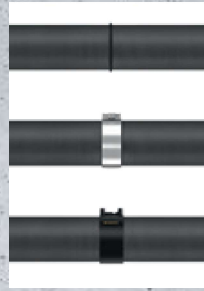
The hydraulically optimised product geometry of the fittings enables a cost-effective dimensioning of the product with a high discharge rate. This creates new free spaces, as a space-saving configuration is also sufficient for the pipe ducts of the stacks.



GEBERIT SILENT-DB20

SOLUTIONS FOR EVERY TYPE OF BUILDING

With the Geberit Silent-db20 drainage system, practically any building drainage can be solved perfectly and without compromise. Geberit Silent-db20 is available in all standard pipe diameters between d56 and d160 and the assortment of fittings and accessories caters to virtually any need.



INNOVATIVE FITTINGS

Geberit continuously develops its piping systems. The floor height, for instance, can be reduced with the combined branch fitting, swept-entry for toilet and shower element.

TIME-SAVING INSTALLATION

The Geberit Silent-db20 drainage system enables efficient operation on the building site thanks to a comprehensive assortment of fittings and tools that have all undergone practical trials. Furthermore, the Geberit Silent-db20 is also suitable for prefabrication in the plumber's own workshop. This pays off for serial production in particular.

CONNECTIONS FOR ALL CIRCUMSTANCES

You have all of the options: The system can be connected in three different ways, whether that's with a quick electrofusion welding process, a clamping connector, or butt welding if lower sound insulation requirements are sufficient.

SAFE ADAPTER CONNECTION

For the connection of floor drainages from Geberit HDPE to stacks from Geberit Silent-db20, Geberit offers special adapters that ensure permanent connection thanks to retaining claws made of stainless steel.



TENSION-FREE INSTALLATION DESPITE AXIAL OFFSET

It is not always possible to avoid inaccuracies during construction. With the Geberit Silent-db20 Offset fitting, stacks can be connected efficiently and tension-free with an axial offset of up to 10 cm. This makes it possible to reduce the installation time to as little as a third compared to an installation with 15°, 30° or 45° bends. The smoother direction changes mean the water flows more quietly and the sound values are similar to those of a straight stack without offset*. As a sliding bracket is no longer necessary, the transmission of structure-borne sound is also reduced.



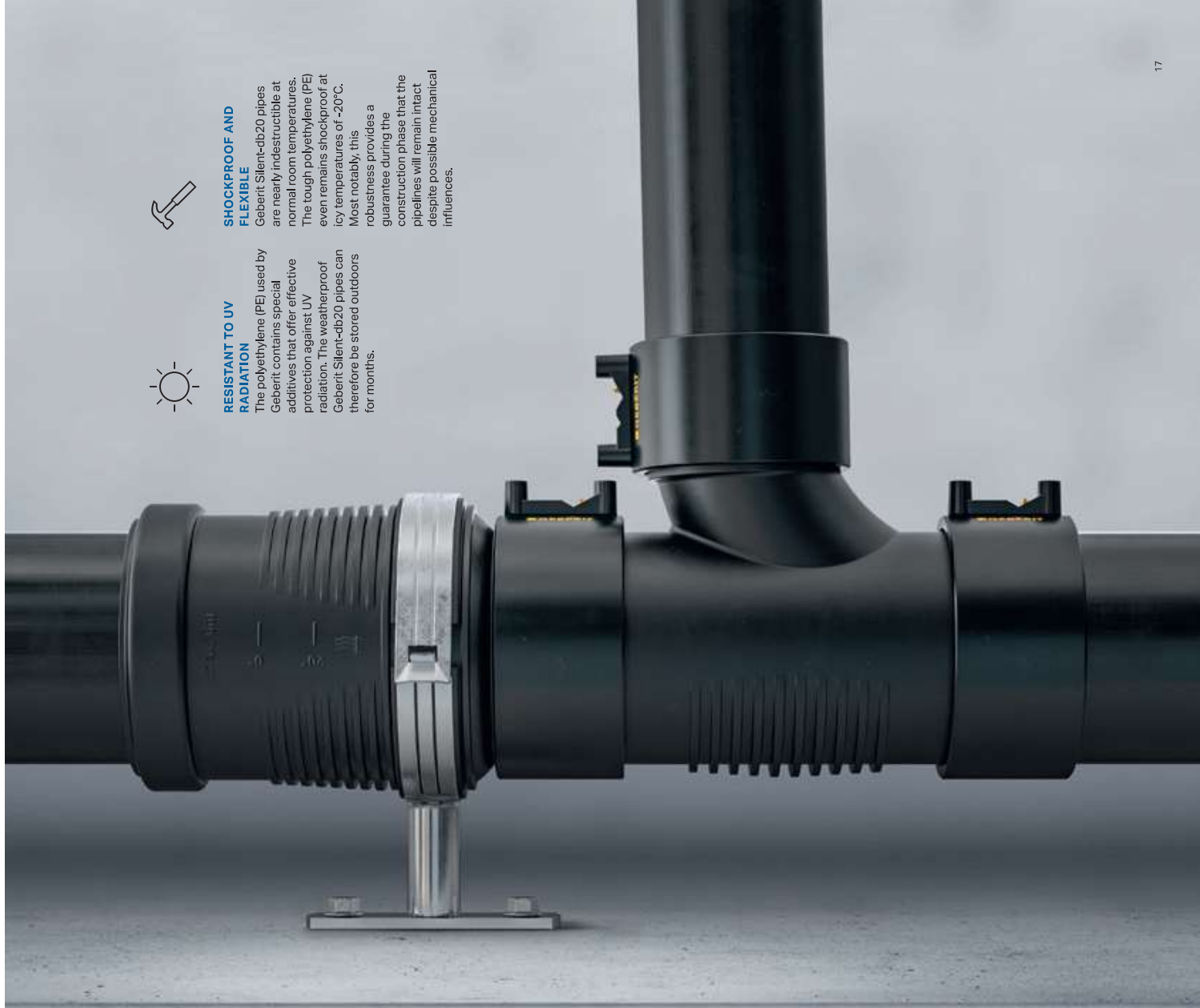
RESISTANT TO UV RADIATION

The polyethylene (PE) used by Geberit contains special additives that offer effective protection against UV radiation. The weatherproof Geberit Silent-db20 pipes can therefore be stored outdoors for months.



SHOCKPROOF AND FLEXIBLE

Geberit Silent-db20 pipes are nearly indestructible at normal room temperatures. The tough polyethylene (PE) even remains shockproof at icy temperatures of -20°C. Most notably, this robustness provides a guarantee during the construction phase that the pipelines will remain intact despite possible mechanical influences.



* Measured with the acoustic camera at a flow rate of 2 m/s with Geberit Silent-db20 installations.

- Large range of products and wide range of dimensions
- High temperature and chemical resistance
- Robust and shockproof
- Various connection options
- Environmentally friendly plastic

GEBERIT HDPE

ROBUST RESISTANCE NO MATTER WHAT

The Geberit HDPE drainage system defies temperatures, pressure and aggressive media. The robust pipes are available in all common diameters from d32 to d315, and the range of fittings including the special fittings is nearly comprehensive. The polyethylene piping material is very light yet unbelievable tough, and the connection technologies guarantee permanent tightness and high tensile strength. The system includes detail-tested components and practical tools for the building site and workshop.



IDEAL FOR PREFABRICATION

Due to the fixed connection technology, Geberit HDPE is perfectly suitable for prefabrication and thereby cost-effective production of series.

DEFIES EXTREME TEMPERATURES

The high density of the material makes Geberit HDPE particularly robust. Hot water does not affect the material at temperatures of up to 80 °C – or even up to 100 °C in the short term and under certain conditions. In the event of cold, the tough material is even still shockproof at temperatures of - 40 °C.

SHOCKPROOF AN FLEXIBLE

The pipes and fittings withstand shocks, drops, impacts or pressures of up to 1.5 bar without breakage or permanent deformation. This robustness provides, most notably, a guarantee during the construction stage that the pipeline will remain intact despite possible mechanical influences.

GENTLE TO THE ENVIRONMENT

Polyethylene, the material used, is environmentally friendly, has a positive ecobalance and is 100 % recyclable. No toxic emissions whatsoever are released if processed correctly. Also, no problematic hydrochloric gases are created in the event of a fire.



VARIED SOLUTIONS

The comprehensive assortment of fittings with special fittings and accessories makes Geberit HDPE the universal solution for numerous drainage tasks. It is suitable, among other things, for use in industry, commerce, laboratory, for buried ground pipes and for roof drainage with Geberit PLuvia.



UV-RESISTENT

The high-density polyethylene (HDPE) used by Geberit contains special additives which effectively protect against UV radiation. The weatherproof pipes can therefore also be stored outdoors.

RESISTENT AGAINST CHEMICALS

The Geberit HDPE drainage system is suitable for a multitude of applications in industry or laboratories. The material is resistant against most standard alkalis, acids and chemicals.

IN THE WALL AND FLOOR

The extraordinarily tough and robust Geberit HDPE pipelines can be embedded in concrete or laid in the ground in accordance with static and other recognised technical regulations without any concern.

CONNECTIONS FOR ALL CIRCUMSTANCES

From butt welding to quick electrofusion sleeve coupling all the way to screw connection with flanges and pipe threads: Geberit HDPE pipes and fittings can be connected in a permanently sealed manner in many ways.

PERMANENT SEAL

The welding joints of Geberit HDPE pipes remain persistently leakproof for many years and offer building owners and plumbers a high degree of safety.

- More residential and floor space
- Simple planning and installation
- Consistently smaller pipe dimensions
- No additional ventilation pipe required
- Horizontal pipelines of up to 6 metres without slope



GEBERIT SUPERTUBE

THE SPACE GAINING SYSTEM

Geberit SuperTube offers space savings in all directions – both vertical and horizontal – by accommodating smaller pipe dimensions and doing away with additional ventilation pipes. Horizontal pipelines of up to 6 metres can be installed without a slope.



1 GEBERIT HDPE SOVENT FITTING

The optimised geometry of the Geberit HDPE solvent fitting guides the water within the stack, sets it in rotation and thereby causes it to press against the pipe wall. The resulting annular flow creates a stable, consistent column of air inside, which facilitates a high discharge capacity.



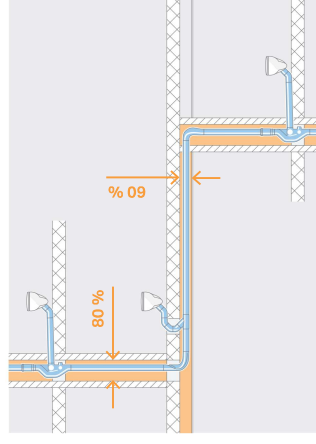
2 GEBERIT HDPE BOTTOM TURN BEND

With the Geberit HDPE Bottom Turn bend, a change in direction causes the wall of water to break and the annular flow to become a layered flow without disrupting the column of air. This change significantly reduces impulse losses compared with conventional solutions.



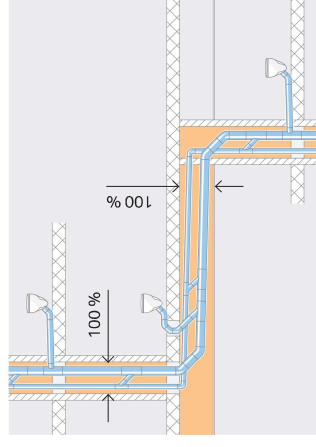
3 GEBERIT HDPE BACKFLIP BEND

The twisted Geberit HDPE BackFlip bend guides the layered flow back into a swirling, offset annular flow so that the air column is maintained throughout the remaining stack.



GEBERIT SUPERTUBE

This technology facilitates a consistent discharge capacity of 12 l/s with a pipe dimension of d110 without a parallel ventilation pipe. Horizontal pipelines of up to 6 metres can be installed without a slope.



CONVENTIONAL SYSTEMS

A conventional discharge pipe with a pipe dimension of d160 and the additional d90 ventilation pipe for a discharge capacity of 12.4 l/s. Horizontal pipelines must be installed with a slope of 0.5–5%.