

EVERYTHING DRAINAGE

**KNOW
HOW
INSTALLED**



EXPERTISE AND INNOVATION

DRAINAGE MEANS MORE THAN SIMPLY DRAINING WATER AWAY. TO ENSURE THAT IT'S DRAINING TECHNOLOGY CAN KEEP UP WITH REALITY ON THE BUILDING SITE AND WITH HIGH FIRE PROTECTION AND SOUND INSULATION REQUIREMENTS, GEBERIT INVESTS THEIR KNOW-HOW INTO DEVELOPING INNOVATIVE PRODUCTS.

Geberit is the market leader in sanitary technology in Europe, 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 sanitary engineers from across the globe are taken into account for all new innovations and further developments. This means that Geberit products and systems incorporate your Know-How.

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OVER 150 YEARS OF INNOVATION

1849

Thomas Twyford founded the sanitaryware company.



1874

Caspar Melchior Geberit started a plumbing business in Rapperswil, Switzerland.



1883

Thomas William Twyford invents the Unitas, the first all ceramic free standing pedestal closet.



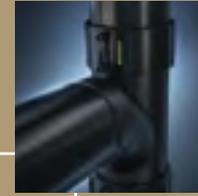
1921

The first patent for the "Phoenix" wooden cistern is registered.



1960

Geberit HDPE drainage system first developed.



1964

Geberit launch their first concealed cistern.

1970

Both electrofusion coupling and Geberit Sovent released.



1977

Launch of Geberit installation systems and shower toilets in Europe.



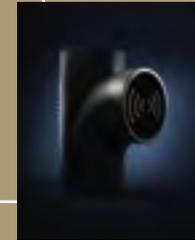
1978

Geberit Pluvia siphonic roof drainage released.



1997

Geberit Silent-DB20, the worlds first welded acoustic drainage system is launched.



2004

Geberit acquires Mapress Holding GmbH in Langenfeld (DE).



2007

Twyford introduce Flushwise® and Rimfree®.



2009

Geberit Silent-PP acoustic pushfit system launched.



2014

New Geberit Sovent 110 developed allowing 12l/s in the stack.



2015

Geberit acquires Sanitec and the Twyford brand.

Twyford
Geberit Group

2016

Geberit ranked in the top 100 most innovative companies by Forbes.

Forbes

2019

Geberit SuperTube launched.



WHY CHOOSE GEBERIT DRAINAGE FOR YOUR PROJECT?



Acoustic drainage pipes reduce noise transfer from flushing water, washbasins, showers and baths.

Geberit has been developing acoustic drainage technology for over 20 years.



Finding cost-effective and reliable drainage systems for high-rise buildings often presents a challenge for building owners, sanitary engineers and plumbers alike. With its consistent research into hydraulics and its own, in-house product development, Geberit is raising the bar not only on a technical level, but also when it comes to service.



Partnership and reliability are core values that our customers around the world can expect from us. Whether you are looking for sound initial advice, planning support, help with invitations to tender, or building site support, the Geberit team is always by your side when you need it.

OUR COMMITMENT TO YOU. GEBERIT VALUES.



KNOW-HOW

We use our experience and technical expertise to create solutions that make a real and lasting difference, delivering advanced training through our worldwide academies.



INNOVATION

Every new development is based on solid research and the latest innovations. The quality of our R & D ensures that we stay ahead in sanitary technology.



PARTNERSHIP

Our customers are the focus of everything we do. We build better relationships by working together to discover more effective solutions.



RELIABILITY

We aim to create durable solutions by simplifying the complex and ensuring the safety and dependability of our products and systems throughout their lifecycles.



QUALITY OF LIFE

Our intuitive products enhance modern living, by setting new standards in design and functionality. Our focus on water economy is part of our long-term contribution to the environment and society.

GEBERIT DRAINAGE SYSTEMS

Building Type	Drainage System		
	 Geberit HDPE Our most versatile drainage system Page10	 Geberit Silent-DB20 Our quietest drainage system Page12	 Geberit Silent-PP Our fastest drainage system Page14
 Residential Housing	■	■	■
 High Rise Building	■	■	■ ⁽¹⁾
 Primary Healthcare	■	■ ⁽²⁾	■
 Industrial Buildings	■	■	■
 Educational Establishments	■ ⁽³⁾	■ ⁽³⁾	■ ⁽³⁾
 Commercial Buildings	■	■	■
 Offices	■	■	■
	SIZE		
	32mm - 315mm	56mm-160mm	32mm-160mm

- Ideal for this situation
- Suitable for this situation
- Not recommended for this situation

⁽¹⁾ With larger buildings Silent-PP can be used for the run-offs to support stacks in HDPE or Silent-DB20

⁽²⁾ Silent-DB20 has a comparable chemical resistance to HDPE, however a slightly lower temperature resistance, HDPE should be used in areas with higher temperature requirements

⁽³⁾ As all industrial applications are varied it is best to check the exact application with Geberit in order to use the correct system.



GEBERIT HDPE

AN ALL-ROUNDER BEYOND COMPARISON

THE GEBERIT HDPE WASTE AND DRAINAGE SYSTEM LEAVES LITTLE TO BE DESIRED: THE ROBUST PIPES ARE AVAILABLE IN ALL COMMON DIAMETERS, FROM 32MM TO 315MM, AND THE RANGE OF FITTINGS AND SPECIAL FITTINGS IS COMPREHENSIVE.

The polyethylene piping material is very light-weight, yet incredibly tough, and the connection technologies ensure permanent tightness and a high tensile strength. The system includes thoroughly tested components for effective fire protection and sound insulation as well as practical tools for the building site and the workshop.

- Large range of products with a wide range of dimensions
- High temperature and chemical resistance
- Flexible and impact resistant
- Various jointing options
- Environmentally friendly plastic

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TEN GOOD REASONS TO CHOOSE GEBERIT HDPE:

ALWAYS A GREAT SOLUTION

With Geberit HDPE discharge pipes, you can solve almost any drainage task perfectly without having to compromise. The range of fittings and special parts covers all pipe diameters from 32mm to 315mm.

CONNECTIONS SUIT EVERY APPLICATION

From butt welding to quick electro fusion welding and screw connections with flanges and pipe threads, Geberit HDPE pipes and fittings can be connected in many different ways and will always ensure permanent tightness.

IDEAL FOR PREFABRICATION

Thanks to a wide range of fittings, proven tools and a low material weight, the Geberit HDPE waste and drainage system is perfectly suited for prefabrication in the plumber's own workshop. This is particularly beneficial when working with complex branches and connection fittings.

PERMANENTLY LEAKPROOF

The welded joints of Geberit HDPE pipes remain leakproof for many years, providing a high degree of safety to building owners and plumbers.

INSIDE WALLS AND FLOORS

The extraordinary tough and robust Geberit HDPE pipes are safe to embed in concrete or install in the ground if the static and other generally acknowledged rules of expansion are observed.



RESISTANT TO UV RADIATION

The polyethylene (PE) used by Geberit contains special additives which provide effective protection against UV radiation. This means that the weatherproof pipes can also be stored outdoors.

SHOCKPROOF AND FLEXIBLE

At normal room temperatures, Geberit HDPE pipes are virtually indestructible. The tough material is shockproof even at temperatures as low as -40°C. Especially during the building phase, this robustness ensures that the pipelines remain intact despite any mechanical influences.

RESISTANCE TO CHEMICALS

The Geberit HDPE waste and drainage system is suitable for a variety of applications in industry and laboratories. The material is resistant to most commercially available alkalis, acids and chemicals. Even hot water of up to 80°C does not harm the material.

VERY HIGH DISCHARGE CAPACITIES

With the Geberit HDPE Sovent fitting (see page 16/17), the discharge capacity of stacks can be more than doubled. The hydraulically perfected element is used to connect floor pipes to a central discharge stack in high buildings.

EXCELLENT FIRE PROTECTION

The Geberit HDPE waste and drainage system includes officially certified solutions for effective fire protection. Fire protection sleeves and floor sealing systems, for example, prevent fire and smoke from spreading to other floors through pipe ducts.



GEBERIT SILENT-DB20

THE SILENCE OF WASTE WATER

GEBERIT SILENT-DB20 IS HIGHLY SOUND OPTIMISED AND SATISFIES NUMEROUS REQUIREMENTS WITH MINERAL REINFORCED POLYETHYLENE FOR A DENSER MATERIAL AND FITTINGS TO REDUCE NOISE AT IMPACT ZONES, GEBERIT SILENT-DB20 ADDS VALUE TO ANY INSTALLATION.

Sound insulation is already installed in the Geberit Silent-DB20 drainage system. That means you can feel confident about meeting the existing sound insulation requirements. Pipes, fittings, connections, fastenings and insulation are processed economically and offer everything you need for a practical drainage system.



- Outstanding sound insulation
- Diverse system with many dimensions and fittings
- Hydraulically optimised fittings
- Clean and safe processing without flying sparks
- Few scraps and environmentally friendly disposal



TRIPLE PROTECTION AGAINST SOUND

The mineral-reinforced plastic PE-S2 is used in the manufacture of Geberit Silent-DB20. It increases the weight of the pipes and fittings. This reduces their natural vibrations and also effectively insulates against sound. Additional sound insulation ribs in the impact zones help to reduce the development of noise. System pipe brackets for wall fastening decouple the system acoustically from the wall or ceiling and prevent sound transmission.



ALWAYS THE RIGHT DIMENSION

The branch fittings in the typical discharge stack dimensions are hydraulically optimised. This allows for greater loads on the stack and, in some cases, allows smaller stack dimensions to be used. Pipes and fittings are available from DN 56 to DN 150.



TWO RELIABLE CONNECTION TYPES

Two different connection types are available, depending on the application. Clamping connectors with screw connections can be loosened at any time and therefore allow corrections to be made to the system.

The electrofusion coupling or butt-weld process will enable you to achieve complete tensile strength simply and safely, which provides additional safety when pipes are laid in concrete. Cutting and mounting is carried out without hazardous flexing. Scrap pieces left over from processing can be reused as fitting pieces or disposed of easily.



GEBERIT GRB AIR ADMITTANCE VALVES

For installations which do not allow for conventional ventilation due to space considerations, Geberit also offers air admittance valves for dimensions of up to DN 100.



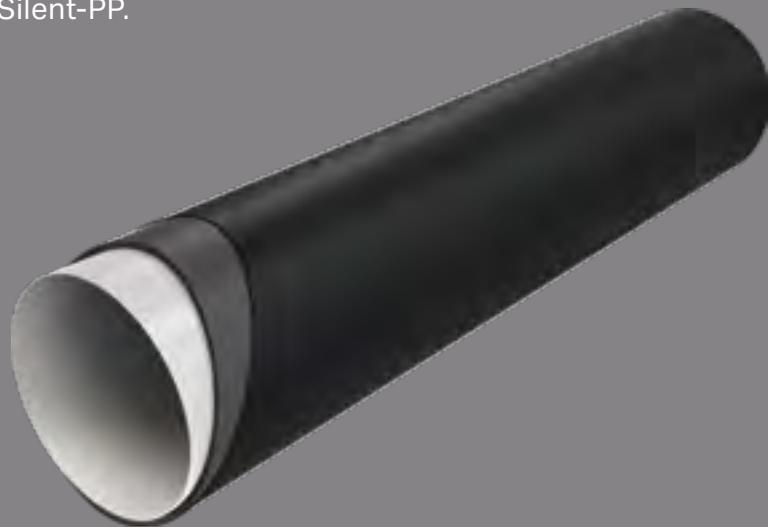
GEBERIT SILENT-PP

QUIETLY GETTING ON WITH BEING SUPER EFFICIENT

RELIABLY ROBUST AND SAFE EVEN AT LOW TEMPERATURES, GEBERIT SILENT-PP HAS THE STRENGTH TO SIGNIFICANTLY REDUCE THE RISK OF DAMAGE OR BREAKAGE.

The award winning push fit design has enhancements such as visible insertion depths and gripping ribs on sockets making insertion, alignment and fitting quick and easy. And with advanced performance capability comes affordability, thanks to competitive pricing.

Wherever rapid, economical, sound optimised drainage solutions are required, fit Silent-PP.

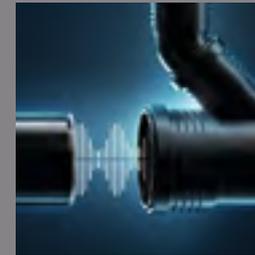


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EIGHT GOOD REASONS TO CHOOSE GEBERIT SILENT-PP:

SOUND OPTIMISED CONSTRUCTION

ensuring less sound resulting from waste water. This is ensured by the mineral-reinforced three layer construction of the pipe material and the hydraulically optimised fittings.



SYSTEM COMPATIBILITY

compatible adapter sockets create a reliably sealed connection between the highly sound insulating drainage system, Geberit Silent-DB20.



LARGE ASSORTMENT

available in seven lengths and more than 100 fittings, including a double branch fitting. Available from 32-160mm.



COLD IMPACT STRENGTH

featuring robust product materials which have cold impact strength, the pipes and fittings can even be safely processed at low temperatures, easily and without risk of breakage.



LOW LINEAR EXPANSION

the minimal expansion of the three-layer pipes means that the entire drainage system can be fitted without expansion sockets, linear expansion is thereby compensated for the sockets, contributing to cost saving and reduction of the assembly line.

UV-RESISTANT

the high proportion of carbon black particles in the piping material and the high-quality seals made of EPDM make the system resistant to sunlight for outside storage for up to two years.

EASY ALIGNMENT

all fittings have 30° markings for quick and easy alignment of the drainage system and the ribs on the fittings improve grip.

CONTROLLABLE INSERTION DEPTH

The insertion depth marking on Silent-PP allow users to easily check insertion depths. This ensures secure connections on every joint.



GEBERIT SOVENT

ECONOMICAL AND SOPHISTICATED DRAINAGE OF HIGH RISE BUILDINGS

GEBERIT SOVENT FITTINGS FOR OPTIMISED FLOW ENABLE INEXPENSIVE DESIGN OF DISCHARGE STACKS IN HIGH RISE BUILDINGS. THEY INCREASE THE PIPE CAPACITY SIGNIFICANTLY AND GET RID OF THE NEED TO INSTALL A PARALLEL VENTILATION PIPE.

TRICKY TASK FOR HYDRAULICS EXPERTS

In conventional discharge stacks, very particular fluidic principles come into play above a certain length. Rapidly changing pressure situations could cause traps connected to the stack to either have their water seals broken by high negative pressure or be blown empty by overpressure. Both situations are extremely undesirable.

To prevent this, you will often find many high rise buildings have very generously dimensioned discharge stacks and a parallel ventilation pipe that is connected to the discharge stack at regular intervals.

GEBERIT KNOW-HOW AT ITS FINEST

With the HDPE Sovent fitting, Geberit has developed an inexpensive and technically sophisticated alternative to conventional drainage systems in high rise buildings. Geberit HDPE Sovent prevents hydraulic blockages in the discharge stack, thus enhancing flow capacity in the discharge stack.

At the same time, Geberit HDPE Sovent ensures a supply of air between the branch discharge pipe and the stack. This means there is no need for a parallel ventilation pipe. A partition prevents foam or splash water from getting into the branch discharge pipe.

ROBUST AND COMPLETELY SYSTEM-COMPATIBLE

Geberit HDPE Sovent is available in two sizes for discharge stacks with a diameter of 110 or 160 mm.

The fitting is manufactured from the resistant plastic HDPE and can be welded with Geberit HDPE or Geberit Silent-DB20 discharge pipes to form a completely leakproof and pressure-resistant joint.



- Outstanding discharge rate of 12 l/s in the dimension DN 100 thanks to patented flow guidance
- Allows a relatively small pipe dimension of DN 100 to be used even in very high buildings
- Eliminates the need to install a ventilating pipe parallel to the waste water stack
- Saves money and space in the waste water shaft because of smaller dimensioned pipes
- Suitable for Geberit HDPE and Geberit Silent-DB20 drainage systems

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 Sovent 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 BOTTOMTURN BEND

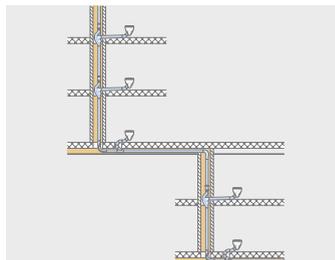
With the Geberit HDPE BottomTurn bend, a change in direction causes the wall of water to break and the annular flow to become a layered flow without disrupting the column of air. This change significantly reduces impulse losses compared with conventional solutions.



3

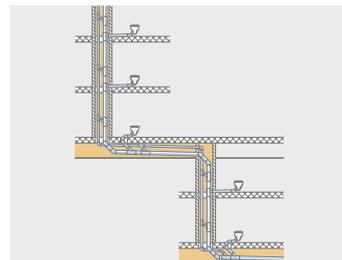
GEBERIT HDPE BACKFLIP BEND

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%.



- 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 ENERGY RETENTION VALVE (ERV)

THE PINNACLE TO A BETTER ENERGY EFFICIENCY

UP UNTIL NOW, ENERGY-OPTIMISED BUILDINGS HAVE ALWAYS SUFFERED FROM ONE WEAKNESS; THE OPEN STACK FOR VENTILATION. THE INNOVATIVE GEBERIT ENERGY RETAINING VALVE, ERV, IS THE ANSWER. IT ONLY OPENS WHEN NECESSARY, PREVENTING CONTINUOUS HEAT LOSS VIA THE DRAINAGE SYSTEM, MAKING IT A SOLUTION THAT'S BOTH SUSTAINABLE AND ECONOMICAL.

Energy saving measures are standard features of today's buildings and are usually applied to the whole structure - from the facade to the windows and right up to the roof.

But there's a missing piece of the puzzle that no one has been able to solve until now; the open stack for ventilation. When a toilet is flushed, for instance, this kind of opening prevents negative pressure from forming and traps from being blown empty.

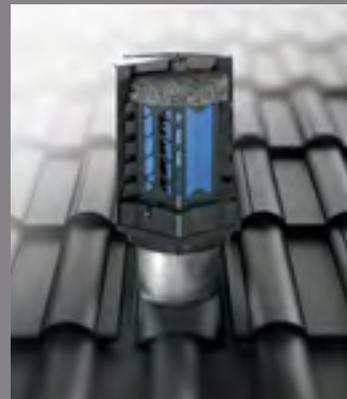
The result is constant heat loss via the drainage system. The innovative Geberit ERV will help you say goodbye to this problem. It only opens when necessary and simply works to ensure pressure compensation when required, preventing unnecessary heat loss.

The Geberit ERV seals the ventilation pipe for waste water above the roof using a patented magnetic diaphragm system.

This system opens automatically when pressure compensation is required. The rest of the time, it retains heat inside the building. Overpressure from the sewage system can escape via the Geberit ERV, as the diaphragms open in both directions.

The Geberit ERV therefore meets the requirements of ventilation in a drainage system.

- Save energy without losing functionality - up to 50 litres of heating oil per year can be saved this way*
- Can be mounted onto a diameter of d110 and adapted to suit all common installation types
- Maintenance free with protection against insects and frost resistance
- Will pay for itself
- Prevents unpleasant odours from the stack



*Calculations are based on model calculations using air temperatures in Lucerne, Switzerland for a multi-storey building and uninsulated stacks.



FIRE SAFETY

GEBERIT OFFERS TRIED AND TESTED FIRE PROTECTION PRODUCTS WHICH ARE PACKED WITH KNOW-HOW AND EXPERIENCE. **THEY GUARANTEE THAT YOU AND YOUR CUSTOMERS CAN REST EASY.**

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 compromise at the interface. It also makes it more difficult to comply with current standards and regulations. Geberit therefore provide complete systems with a guarantee and the necessary documentation for your project.

This means you can offer your customers a proven high degree of protection against the spread of fire through the discharge pipes.

In the area of fire protection, Geberit works closely with external testing laboratories. Both prototypes and series products are subjected to realistic fire tests. This development work fully takes into account the fire protection requirements which vary from country to country.

RELIABLE PROTECTION AGAINST THE SPREADING OF FIRE

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



↑
Geberit fire protection sleeve
RS90 Plus EN

↑
Geberit fire protection solution
for ceilings FSH90

ACOUSTICS

GEBERIT HAS PERFORMED SOUND MEASUREMENTS UNDER REALISTIC CONDITIONS IN A SOUND LABORATORY SET UP SPECIFICALLY FOR THIS PURPOSE. THESE HAVE PRODUCED RELIABLE MEASUREMENT RESULTS FOR BUILDING OWNERS AND DESIGNERS.

ELECTROFUSION COUPLINGS FOUND IN THE HDPE PRODUCT PORTFOLIO, MAINTAIN A SMOOTH INTERNAL BORE THUS REDUCING NOISE TRANSFER.

In addition to laboratories for sanitary technology and developing materials, Geberit also operates a Building Technology and Acoustics Laboratory that is unique worldwide. Here, both individual components and entire drainage systems are checked for their hydraulic, acoustic and static properties.

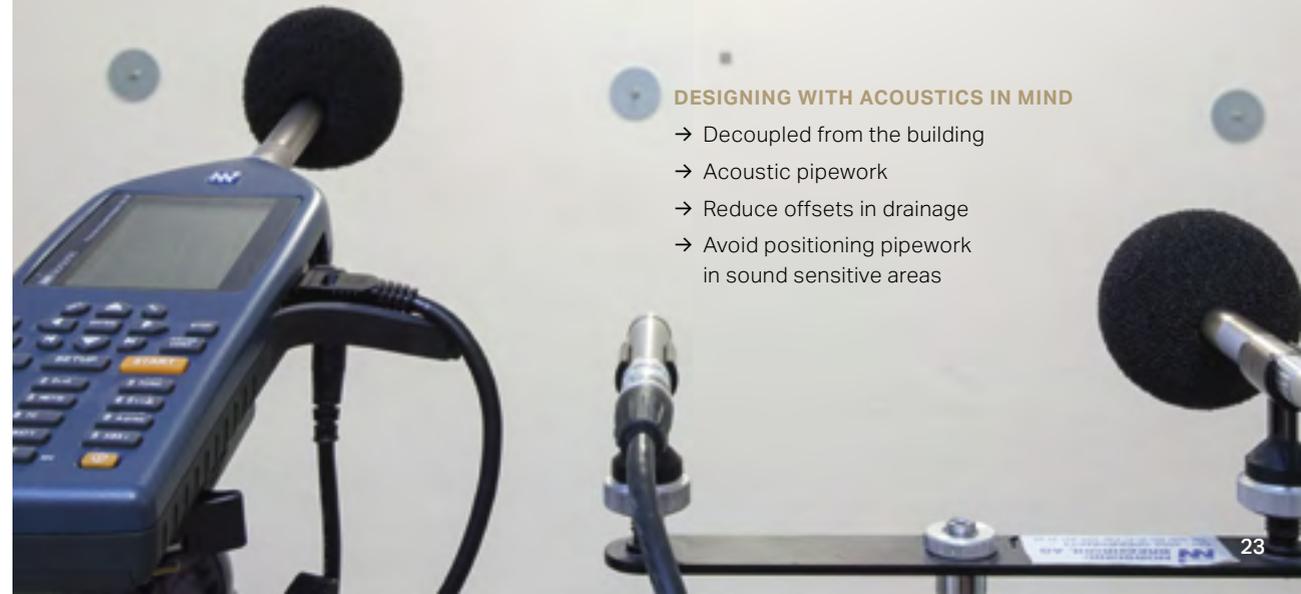
The sound transmission of discharge stacks through several floors can be tested under realistic conditions and optimised. Furthermore, with the sound insulation expertise of Geberit, you can ensure that the drainage water sounds are minimised in private houses, public buildings, hotels and business premises.

SOUND INSULATION FROM A SINGLE COMPANY

In addition to the optimised sound insulated drainage system, Geberit Silent-DB20, intelligent fastening and insulation technologies ensure that the development of noise from waste water remains low. The system pipe bracket for Geberit Silent-DB20, the Geberit sound insulation mat Isol, the insulation hose and the self-adhesive sealing tape complete the sound insulation system.

NOISE REDUCES OUR QUALITY OF LIFE.

We all feel disturbed by noise, especially when we try to sleep, read a book or focus on our work. This is why a great deal of planning goes into making buildings quiet. However, one source of noise is often neglected - waste water. This disturbance is not necessary. It is possible to improve the residents' quality of life and as a result the value of the building by paying more attention to planning and installation.



DESIGNING WITH ACOUSTICS IN MIND

- Decoupled from the building
- Acoustic pipework
- Reduce offsets in drainage
- Avoid positioning pipework in sound sensitive areas

LOW VOLUME FLUSHING AND IT'S EFFECT ON UK DRAINAGE

TRENDING TOWARDS LOWER LITRE TOILET FLUSHING TO REDUCE WATER CONSUMPTION.

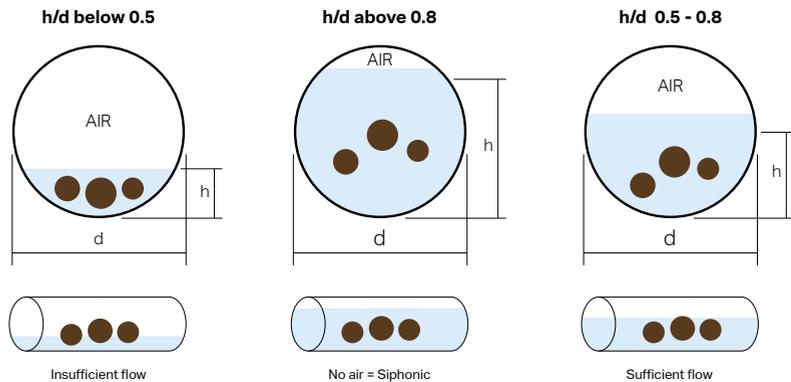
BUILDING REGULATIONS PART H:

Only makes provision for major flush volumes of 5 litres or more
States that consideration to increased risk of blockages should be given where major flush is less than 5 litres

HOWEVER:

UK design to BS EN 12056 doesn't make any provision for lower volume flushing
UK's default System III allows for full bore discharge pipes and a filling degree of 1.0 (100%)
BS EN 12056 only permits System II for a toilet 4 litre flush

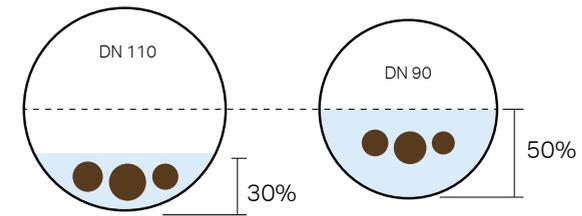
FILLING RATIO H/D OF HORIZONTAL PIPES



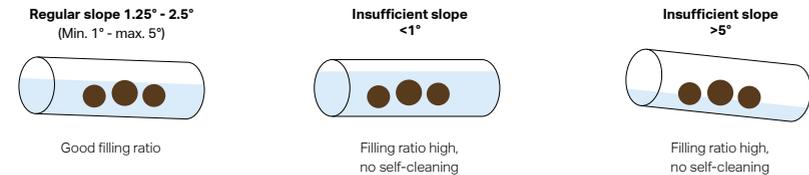
↑ Appropriate size of discharge pipe is crucial for a good self-cleaning of the system.

TWO KEY THINGS FOR CONSIDERATION:

→ **FILLING RATIO**
BETWEEN A DIA. 110 AND 90MM PIPE WITH 4.5L



↑ Smaller pipe allows better filling ratio



↑ The horizontal pipes have to be installed with a regular slope. The slope for pipes must be planned and installed with special care.

→ **KEY DETERMINING FACTORS - 6L OR 4.5L FLUSH**

	6L	4.5L
Decision factors	Standard solution	<ul style="list-style-type: none"> - Green Building (LEED, BREEAM, etc) - Local authorities - Planner / Consultant - Owner / End-user - Facility Management
Cistern	Factory setting	Manual adjustment
Ceramic	Standard ceramic	4.5L certified ceramic
Drainage system	<p>DN100</p> <p>DN 100 50%</p>	<p>DN 90 or DN100</p> <p>DN 90 50%</p> <ul style="list-style-type: none"> - Based on: - Slope - Offsets - Amount of bends - Distance WC to stack - Pipe layout (eg. cast in concrete)

GEBERIT PLUVIA

SUPERIOR ROOF DRAINAGE THE SYSTEM WITH NEGATIVE PRESSURE

While conventional systems simply allow rain to run off the roof through sloping pipes, the compact Geberit Pluvia pipe system fills up quickly and draws the rainwater from the roof using the resultant negative pressure.

The Geberit Pluvia roof outlets prevent air from being pulled in and guarantee reliable performance. This results in double the amount of rainwater discharge at half the pipe diameter. There is also greater design freedom in terms of planning, as there is no longer any need for sloping pipelines.

FEWER ROOF OUTLETS

Thanks to the high discharge rate of the siphonic system, fewer roof outlets are required. This results in savings in both product material and labour costs, while also preserving the roof.

As the pipes are filled completely, fewer drains are required meaning greater flexibility in planning.

FEWER UNDERGROUND PIPE CONNECTIONS

Fewer discharge stacks and fewer connections mean lower installation and material costs.

SMALLER PIPE DIAMETER

Geberit Pluvia pipelines are designed for complete filling.

This reduces the pipe diameter to avoid over sizing.

SELF-CLEANING SYSTEM

The high flow velocity when the pipeline is filled produces suction which contributes to the self-cleaning of the system.

This ultimately means less time needs to be spent on maintenance.

NO SLOPE

Geberit Pluvia pipelines are laid horizontally without fall, so the drainage system does not result in any loss of space.

GEBERIT PROPLANNER

EVERYTHING STARTS WITH A GOOD PLAN. THAT'S WHY GEBERIT HAS TAILOR MADE THE GEBERIT PROPLANNER SOFTWARE USED BY OUR INTERNAL TEAMS AND APPROVED INSTALLERS TO ENABLE PLANNING AND HYDRAULIC CALCULATIONS FOR YOUR PROJECT AND THE DESIGN OF A SYPHONIC RAINWATER SYSTEM.



THIS SYSTEM SPECIFIC SOFTWARE IS DESIGNED TO ENABLE HYDRAULIC CALCULATIONS FOR EVEN THE MOST COMPLEX ROOF DESIGNS.

IT IS ESSENTIALLY A 6-STEP PROCESS:

1. Calculation of the roof area
2. Determining the rainfall intensity
3. Volumetric flow of the roof area
4. Number a position of the roof outlets
5. Defining the pipe routing
6. Design software schematic

REVIT PLUG-IN FOR PROPLANNER

With ProPlanner there is a Revit plug-in therefore external audiences, who don't have access to ProPlanner are able to produce siphonic roof drainage designs in Revit.

THE INFORMATION NEEDED FOR US TO CARRY OUT THE DESIGN IS:

1. Roof plan layout
2. Section drawing
3. Core position for the downpipes
4. Roof type
5. Any "no go" zones within the building
6. Areas which might cause obstruction to the pipework

This information will be required during the siphonic system design process and time will be saved if provided upfront. It will also reduce the likelihood of any redesign work being required later in the process.

PROPLANNER DESIGN SOFTWARE WILL PRODUCE:

1. Isometric drawings
2. Hydraulic calculations
3. Full material list including fixings
4. Tender documentation including costings

Within Geberit ProPlanner the Geberit Pluvia module can be used to design the optimal configuration of your overall system. For example, it can determine the required number of outlets and the necessary pipe diameters. With a few clicks of the mouse, a fully dimensioned and calculated plan is created. Isometric visualisation, hydraulic certificates, material lists and options complete with individual hourly rates are available straight away.

Geberit ProPlanner provides each detail in an optimal and logical visualisation.

GEBERIT BIM

INTELLIGENT DATA FOR DIGITAL PLANNING

Simplified planning processes for technical building systems and virtual collision checks – with BIM@Geberit, everything is now theoretically possible. In practice, however, it frequently falls down due to a lack of suitable, reliable data models and geometries that are easy to handle. But with Geberit, dealing with BIM data is both easy and practical thanks to the complete array of Geberit tools available for planning software. All of these products are prepared in accordance with country-specific and market-specific requirements, meaning sanitary engineers can automatically call upon the appropriate range in the relevant language for their respective countries at any time.

UNIVERSAL DATA MODELS

The focus here is on reduced, practical BIM objects that are easy to handle as part of the day-to-day planning process. This is why Geberit relies on highly simplified, basic geometries with comprehensive meta information that are classified according to the international “IFC” standard. A special feature of the Geberit BIM objects is the “generic visualisation” function. This function makes it possible to display Geberit BIM objects in a manufacturer-neutral format in public sector tenders, thereby eliminating the need for extensive conversions within the overall model. From summer 2019, a Geberit plug-in will also be available for Autodesk Revit®, providing rapid access to all Geberit products. This will make time-consuming searches and downloads a thing of the past.

STANDARD COMMITTEES

Geberit is committed to efficient and reliable planning processes for technical building systems with BIM and actively contributes in a variety of ways to a whole host of standards committees:

- BuildingSMART
- BTGA AK BIM
- Bundesverband Bausysteme – Fachverband Bauprodukte digital (products for BIM)

GEBERIT BIM NOW AT A GLANCE

- The complete, planning-related Geberit range under a consistent data standard
- Reduced, practical data models with all meta information as required
- Country-specific and market-specific versions in 28 languages
- Manufacturer-neutral visualisation possible
- Geberit plug-in for Autodesk Revit®

→ www.geberit.co.uk/BIM



GEBERIT PREFABRICATED SYSTEMS

THE PERFECT FIT FOR YOUR NEXT PROJECT

AT GEBERIT, WE'RE ALWAYS LOOKING FOR WELL-PLANNED AND WELL-CONNECTED SOLUTIONS WHICH MAKE LIFE AS SIMPLE AS POSSIBLE. OUR PREFABRICATED SYSTEMS ARE THE PERFECT EXAMPLE OF OUR DESIGN PRINCIPLES IN PRACTICE, PROVIDING YOU WITH AN ALL-ROUND, ALL IN-ONE SOLUTION.

We'll make sure you're fully supported from start to perfectly realised finish, assisting with everything from planning and ordering to fabrication and on-site logistics. Making the whole process quicker, more sustainable, more tailored and simply easier to manage.

WE PLAN EVERYTHING AROUND YOU

We work with you to gain an indepth understanding of what you want to achieve, before creating a plan and an estimated budget through our quick quote offering. We supply an estimate so you can quickly compare the cost benefits. And because everything is available from our approved merchants, making it easy for you to order everything you need from one central point. With our reassuring attention to detail, it couldn't be simpler.

**Prefabrication
Solutions**

**KNOW
HOW
INSTALLED**

TOTAL GEBERIT SERVICE. IT MAKES ALL THE DIFFERENCE.

WHETHER YOU'RE A CONTRACTOR, ARCHITECT, DESIGN AND BUILDING CONSULTANT OR AN INSTALLER, YOU'LL FIND THAT OUR FLEXIBLE TURNKEY APPROACH CAN MAKE ALL THE DIFFERENCE TO YOUR NEXT PROJECT.



Behind all of our prefabricated solutions is a proven Geberit product, innovative Geberit design and all the Geberit training and support you need. Our dedicated engineers have an unrivalled knowledge of building regulations and standards, adding value throughout the prefabrication process and providing you with total peace of mind.

MANUFACTURED TO THE HIGHEST STANDARDS

At every stage our experienced team will cover all the angles, saving you vital planning time and ensuring that your schedule is never compromised. Our technical solutions simplify the complex, making them a refreshing change to over-engineered and poorly thought-out solutions.

DESIGNED WITH SUSTAINABILITY IN MIND

Our investment in environment-friendly technology ensures that our products are 100% recyclable. What's more, Geberit products are delivered in batches of no more than 30 at a time, so you'll never have to worry about having adequate storage on site. Our complete focus on sustainability ensures that we deliver exactly what you need, so you won't have any unused items or surplus-to-requirement parts to dispose of.



A PERFECTLY STREAMLINED SOLUTION

Our streamlined approach ensures that your next project will not only be efficient, but cost effective too. Once the plans and designs are approved, Geberit customer service springs into action. With state of the art Geberit designed software and 3D planning, you can be sure that everything will be perfectly in place, providing you with fit-and-forget reliability and full quality testing.



WORKING WITH GEBERIT WORKS ON EVERY LEVEL

WITH GEBERIT, EVERYTHING IS PERFECTLY PLANNED TO PROVIDE YOU WITH AN EXCEPTIONAL LEVEL OF SERVICE. WE THINK OF EVERYTHING FROM ENHANCED HEALTH AND SAFETY, TO ALL THE WAYS WE CAN MAKE YOUR BUDGET WORK HARDER.

HERE'S AN AT-A-GLANCE GUIDE TO ALL THE REASONS WHY WE'RE THE PERFECT CHOICE FOR YOUR NEXT PROJECT:



TOTAL GEBERIT SERVICE

With Geberit products, Geberit design and Geberit trained experts to guide you, the quality of our PreFab solutions is matched by our unique customer service capability.



SIMPLER FOR INSTALLERS

With time-saving, installer friendly designs and systems, everything comes together perfectly on site, leading to fit for purpose installations that will also fit your budget.



QUICKER QUOTING

Standard estimates are turned around within 48 hours, so you can quickly compare and contrast the costs.



DESIGNED TO STAND THE TEST OF TIME

Our long-lasting drainage and pre-fabrication options can provide contractors and architectural consultants with complete peace of mind and reduce costly call backs.



GEBERIT KNOW HOW

When you place your order, you can be sure of getting our preferred option; a genuine, Geberit-manufactured product with no deviation from the signed off design, plus all the know-how and design integrity of one of the industry's most trusted brands.



HELPING TO ERADICATE ON-SITE ERRORS

All cuts and welds are already made and ready for installation, helping to reduce inconsistencies and reducing the margin of on-site error.



EVERY PRODUCT, FOR EVERY PROJECT

Our total product offering ensures that we can supply the rigorously tested, quality assured solutions you need. Whether it's our market-leading fully welded acoustic system or super-resistant, multi-application HDPE, everything carries the Geberit stamp of approval.



QUIETLY GETTING ON WITH THE JOB

We make alignment and fitting easier on-site with run offs in Geberit Silent-PP, our award winning push fit sound optimised drainage solution.



SUSTAINABILITY FIRST

With Geberit, great design and sustainability go hand in hand. All our PreFab products are recyclable and designed with the future in mind.



QUALITY ASSURED EVERY TIME

All our products are quality tested before despatch to your site. Which is why you can rely on Geberit dependability on project after project, time after time.



SIMPLER ORDERING FROM GEBERIT-APPROVED MERCHANTS

Because you can order all our PreFab products the usual way, via the merchant, you'll feel more at home with Geberit.



FASTER INSTALLATION

Time is money. That's why our PreFab products are designed for total ease of installation, reducing your total installation costs.



EXPERIENCED AND KNOWLEDGEABLE ENGINEERS

Our dedicated team of engineers are equipped with a vast knowledge of building regulations and standards, so they're ready to help with all your design and application queries.



ON SITE SALES AND SPECIFICATION SUPPORT

We can supply tailored on-site training together with specification support to help architects maintain the aesthetic integrity of each project.



INNOVATIVE PRODUCTS

Integrating Geberit products into each project can save contractors time and provide architects with new design options, such as SuperTube, our space-gaining system which is setting new standards in hydraulically optimised drainage.



PROVEN PROBLEM-SOLVING, TAILORED TO YOUR NEEDS

We can tailor our products to meet specialised requirements, such as providing pre-insulated pipework, or our advanced acoustic pipe Silent-DB20, which requires no insulation whatsoever.



PRECISION ORDERING AND DELIVERY

Our products are delivered in batches of no more than 30 at a time, which means you'll never be off-loaded with excess product you need to store.



PUTTING HEALTHY AND SAFETY FIRST

Because cutting and welding can be reduced or removed completely, you'll have fewer Health and Safety concerns. There'll also be less waste on site, eliminating the need to have large bins for plastics disposal.

DEDICATED SUPPORT

DEDICATED TEAM

From planning to logistics to stock availability and aftersales, we're exceeding expectations to offer you a wide range of products to suit any development. At Geberit, we have a dedicated team in place to support your project from start to finish.

TRAINING

Geberit provide a free, comprehensive CIPHE accredited training day. This can be provided for all installers including sub contractors and apprentices. With a choice of visiting the Warwick Training Academy or delivery of the training on site, the program offers flexibility to suit your needs.

- Free training day including lunch
- Training certification
- Onsite or head office training sessions (depending on the size of the project)

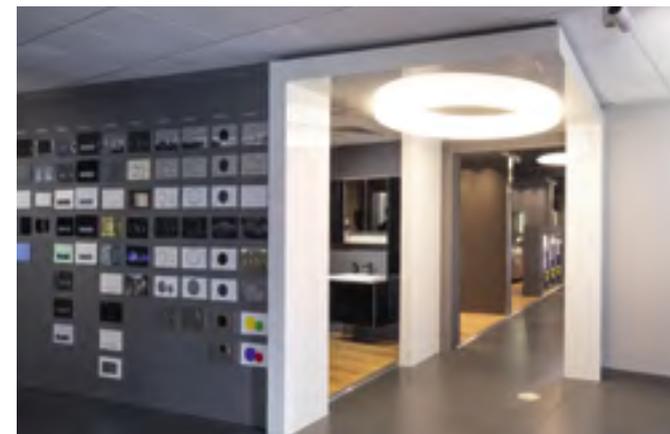




VISIT OUR SHOWROOM

Our state of the art Warwick showroom demonstrates our ability to provide an end to end bathroom solution whatever the project or application. The realistic room sets from Geberit and Twyford include furniture, ceramics, shower enclosures and flush plates so you can visualise the complete designed room.

You can also experience fully working Geberit AquaCleans which will allow you to try all innovative functions on offer for each AquaClean. Our behind the behind-the-wall technologies such as frames, piping and drainage are also on display, and to complete the experience we have a supply and drainage systems acoustic demonstration.



KNOW-HOW INSTALLED

INNOVATIVE SYSTEM TECHNOLOGY FOR PROFESSIONAL SANITARY INSTALLATIONS.

Using Geberit systems means playing it safe: there are no uncertainties resulting from combining components from different manufacturers and no unnecessary material costs or installation workload. Geberit systems also provide a very high level of safety and efficiency, and minimise environmental pollution.

Geberit are masters of their art when it comes to developing practical products. This doesn't happen by accident. For one thing, we apply all of our knowledge and experience to each new innovation and further development. For another, our engineers and product designers can always be found visiting building sites and speaking to plumbers or sanitary engineers. This is how we decide whether or not an idea is viable. This means the Know-How of our market partners is incorporated into all our products. "Know-How Installed" – we can all be proud of that.

**KNOW
HOW
INSTALLED**



GEBERIT CISTERNS & MECHANISMS

Exposed and concealed cisterns, clever flush control solutions for urinals and watersaving conversion sets for older cisterns – all of the flush control technologies offer the perfection you have come to expect from Geberit, down to the finest detail. In combination with the Geberit Monolith sanitary modules, the various attractive Geberit flush plates and Geberit urinal flush controls, exceptional flush solutions can be created for toilets and urinals which are a perfect fit for the modern bathroom.



GEBERIT INSTALLATION SYSTEMS

Support systems and installation elements combine into bathroom walls up to a ready-to-tile surface. No matter if it's a solid wall or drywall, prewall or inwall installation: with Geberit Duofix, you will find the perfect solution for any sanitary application. At the same time, you can be sure you are using efficient, economical and sustainable system technology when fitting and modernising the bathroom.



GEBERIT SUPPLY SYSTEMS

The Geberit Mapress and Geberit Mepla pressing systems together with an optimally coordinated assortment of product materials, dimensions and fittings allow for the quick, easy, reliable and economic installation of domestic and industrial supply systems. Naturally, the necessary pressing tools are part of the system. The robust Geberit pressing systems ensure quick and flexible connection.



GEBERIT DRAINAGE SYSTEMS

The sound-absorbing Geberit Silent-PP drainage system for building drainage, the Geberit HDPE system for buried drainage pipes and for use in industry and the laboratory, and Geberit Pluvia syphonic roof drainage can be combined to form complete solutions for drainage. Geberit waste fittings ensure hydraulically optimised and stylish connection to sanitary objects.



GEBERIT TAPS AND FLUSHING SYSTEMS FOR PUBLIC FACILITIES

Only really reliable sanitary product solutions can meet the high requirements of public and semi-public sanitary facilities. Electronic and mechanical urinal and toilet flush controls and quick-response washbasin taps ensure hygienic and economical operation.



PROVEN PERFORMANCE



OBEL TOWER

The Obel Tower stands at 28 stories high, making it the tallest building in the city of Belfast. Geberit's expertise in providing piping, drainage and bathroom systems was called into action for this most iconic of Belfast's buildings. The Obel Tower was the first UK-based project to use Geberit Sovent fittings, which allow the use of smaller diameter soil stack pipes and offset self siphonage from the floats, which was a particular requirement from the contractor.

Particularly suitable for use in tall buildings due to its superior environmental and acoustic properties, as well as being easier to install than metal alternatives, Geberit's HDPE piping was chosen alongside the Geberit Sovent soil and waste drainage system. Geberit Sovent is a single stack drainage system designed specifically for use in high rise buildings. Developed to substantially increase the performance of a soil and waste drainage system, Geberit Sovent eliminates the need for a separate vent stack and reduces the diameter of the stacks in high-rise buildings.



PREMIER INN, BIRMINGHAM

The Premier Inn in Birmingham provides an example of where a number of Geberit's solutions, specifically suited to jobs of this nature, have come together: Geberit Silent-DB20, a must for buildings where the volume of waste water produced could cause unwanted noise for room occupants and the first English outing for Sovent.

Sovent is a unique system, designed specifically to meet the needs of high-rise buildings. Only one pipe is needed for both drainage and air ventilation, minimising space requirements, material and labour costs, with no risks of siphoning for baths and sinks eliminating the risk of bad smells. A revolutionary system, the Geberit Sovent negates the need for two stack drainage, streamlining systems for tall-buildings of this nature.

In addition to Sovent, Geberit Silent-DB20, a waste water pipe with built in sound insulation, was installed to ensure peace and quiet for the hotel's guests, Geberit Mapress press-fit pipe system provides general plumbing and Geberit HDPE; a long-lasting pipe with low environmental impact; delivers above-ground drainage. Plumbing systems were specified and installed by Sharpe Mechanical Services.



THE DESIGN MUSEUM AND HOLLANDGREEN

The Design Museum and Hollandgreen apartment complex is an exciting new mixed use development in West London.. Geberit products were used extensively throughout the build, across a range of applications including roof drainage and noise minimising pipework's.

Being grade II* listed, posed a particular problem when it came to roof drainage but Geberit Pluvia is a siphonic drainage system that has a far greater carrying capacity – the new system can accommodate a rainfall intensity equivalent to a 1:1,500 year storm.

Hollandgreen is an extremely high value project that could not afford to tolerate noisy pipework and sanitaryware. Geberit Silent-DB20 pipework has noise minimisation built-in, considerably reducing the acoustic impact of water running through the pipes, which, alongside sensible design when it comes to piping layouts, helps to ensure residents aren't disturbed.

"For areas that did not require such high levels of sound proofing, such as the communal spaces, basement and car parks, Geberit HDPE was used." Mike Carter, Arup.



AVIVA STADIUM, DUBLIN

The Aviva sports stadium has a capacity for 51,700 spectators and is built on the site of the former Lansdowne Road stadium. Designed to provide first-class facilities for spectators, players, media and backroom staff, behind the poly-carbonate façade, the nuts and bolts of the stadium had to comply with some strict ground rules. The contractor had to work towards the BS8901 certification of sustainable management for events and event venues. This is where Geberit stepped in, supplying its HDPE pipes throughout the stadium.

Not only is Geberit HDPE completely recyclable, it also provides a total solution for all types of drainage, including soil, waste and rainwater. Available in sizes ranging from 32mm to 315mm in diameter, the variety of fittings and jointing methods ensure ease of installation in any application.

Besides the sheer versatility of the piping system, Geberit HDPE was also chosen due to its ease of installation. The contractor could ensure that all joints had been properly fused due to the yellow indicator on the electrofusion coupling, which could be tough in areas hidden from view - a major advantage for installing piping in more restricted areas of the Stadium.

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