



Geberit Sales Ltd
PO Box 67
College Road
Aylesford
Kent
ME6 9BX
United Kingdom

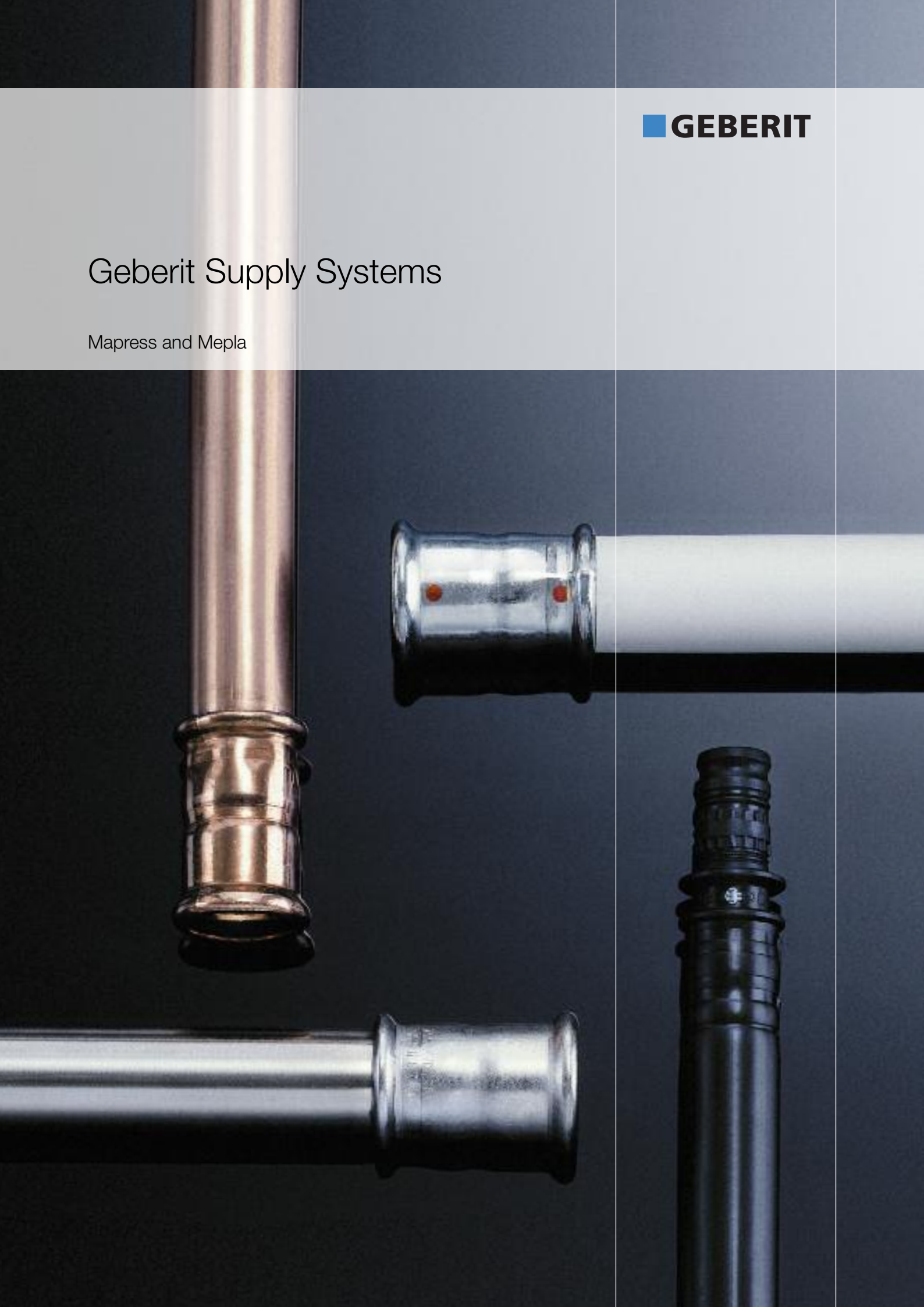
Tel: 0800 077 8365
Fax: 0844 800 6379
Literature: 0800 007 5133
Ireland Telephone:
+44 (0)1622 717 811

www.geberit.co.uk

 **GEBERIT**

Geberit Supply Systems

Mapress and Mepla





The experience to deliver the future



Welcome to the future of pipe systems and connection techniques from the most innovative supply system manufacturer in the world.

With Geberit, there are no such things as ordinary pipes or connectors. That's because every component has been meticulously designed to work together perfectly and form the complete integrated system.



Decades of expertise

The press fitting method was first invented by Swedish engineer, Gunnar Larsson in 1958. By the early '60s it was employed in home heating and in 1969, Mannesmann (later known as Mapress) took over the manufacture of the stainless steel press fitting system. In subsequent decades, the company's product range extended to include carbon steel, copper and copper-nickel alloy.

At the same time, Fluid Air Energy SA in Switzerland started producing a plastic and aluminium composite pipe system known as Mepla. By 2003, both Mepla and Mapress had joined the Geberit family of products - bringing with them nearly half a century of experience.



Better connected, widest range



Today, Geberit offer the widest range of press fitting systems available.

Due to our busy lifestyles you may not have noticed how every part is precision engineered and how much attention has been paid to the smallest detail. But trust us, we've thought of everything.

With Geberit press connection fittings, there's no need to waste time with soldering, threading and welding to form a reliable, tight and durable connection. The only tools needed are cutter, deburrer and press tool - just cut, deburr and press connections together. All Geberit components are designed to fit together perfectly for the complete integrated pipe system.



Cross-section of Geberit Mapress connection.

A. before pressing
B. after pressing

1. pipe
2. pressfitting
3. seal ring



Tight and durable

Press connecting with Geberit is easy because we offer a complete, perfectly adjusted system, where every component fits like a glove.

Visibly safe

We have been the market leader with our reliable connections for more than 35 years. Nevertheless, we still strive for perfection. Our fittings are designed so that any connections not pressed during installation are automatically detectable during testing, providing the installer with a fail safe method of checking for unpressed joints.

Quality in every detail

At Geberit, top quality has top priority. All our pipes and fittings undergo strict quality control throughout their production – from the raw material to the finished product. The fittings are thoroughly tested to ensure that they are tight and the integration of each and every seal ring is monitored by camera.

The Geberit press connection system comprises of the pipes, fittings and pressing tools. All our system components have undergone strict quality control throughout their production. Therefore, we can guarantee the safety of the connections.

The quality of the welding seams on the fittings and pipes is also closely controlled, and our pressing tools are subject to strict internal quality control. By always staying true to our high standards, we ensure that you always receive the same Geberit quality.



Unpressed Mepla fittings are designed to leak during pressure testing due to the profile and location of the seal ring. This produces a visual safe system where unpressed fittings can be pressed without having to drain down the whole system.



Profiled seal ring in a Mapress fitting. Water passes through three leak paths on the seal ring, in between the pipe when not pressed.



One system for all applications

The greatest advantage of the Geberit press connection system is its versatility.

Our system can be installed in heating and cooling facilities, gas pipe networks, compressed air installations, fire extinguishing

facilities and sprinkler systems, industrial facilities and many other applications. Geberit's 400 national and international licenses within sanitation, shipbuilding and industrial facility construction attest to the versatility of our press connection systems.

Does your piping system need to operate under extreme conditions involving high pressures or temperatures?

No problem! We know that different applications require different solutions.

Material	Water	Heating	Cooling and refrigeration	Gas	Saturated Steam	Industry	Fixed fire extinguishing systems	Solar systems	Shipbuilding	Offshore
Mapress Copper	✓	✓	✓		✓	✓		✓		✓
Mapress Copper Gas		✓		✓		✓				
Mapress Stainless Steel	✓				✓	✓	✓	✓	✓	✓
Mapress Stainless Steel Gas		✓		✓		✓				
Mepla	✓	✓	✓			✓			✓	✓
Mapress Carbon Steel		✓	✓			✓	✓	✓		
Mapress CuNiFe									✓	✓



Supply systems commercial building installations



Drinking water, hot and cold water, and heated and chilled water pass through Geberit Mapress pipes, next to Geberit HDPE drainage systems.

With Geberit you can rely on a clean and fast installation for all building services applications.

No naked flame for welding, brazing or soldering is required. The minimal risk of damage to existing fittings and fixtures makes the system a perfect choice for new buildings and refurbishments. There are reduced insurance premiums and no requirement for a hot works certificate.

Don't stress. Press.



Geberit press connections in concealed or visible installations of new buildings and refurbishments.



Installation in a historic building.



Safe, clean and fast installation.



Cooling pipe system.

Furthermore, the pressed fittings create a visually attractive connection: no unsightly excess solder, only straight shapes on the outside. Together with the stability of the pipes, you will appreciate this especially in refurbishment projects whenever pipes are installed visibly on the wall.

The stainless steel system fulfils the requirements for external cleaning of the pipe installations in clean rooms.

Press connections in building services from A – Z



Hot and cold water supply with Geberit Mepla.



Technical details: Geberit Mapress Stainless Steel and Copper Gas in building services applications:

The permitted operating temperature range in gas applications is from -20°C to $+70^{\circ}\text{C}$. The maximum operating pressure inside buildings depends on the locally relevant approval. Please note that the pipes are not suitable for underground installation.

Inside buildings, Geberit press connections are suitable for:

- Potable water – Mapress Stainless Steel, Copper and Mepla
- Heating, cooling and refrigeration – Mepla, Mapress Carbon Steel, Stainless Steel and Copper
- Solar systems – Mapress Copper and Stainless Steel with FPM dark green solar seal ring
- Gas – Mapress Stainless Steel Gas and Copper Gas
- Fire mains – Mapress Stainless Steel and Carbon Steel
- Saturated steam - Mapress Stainless Steel with FEPM light green seal ring



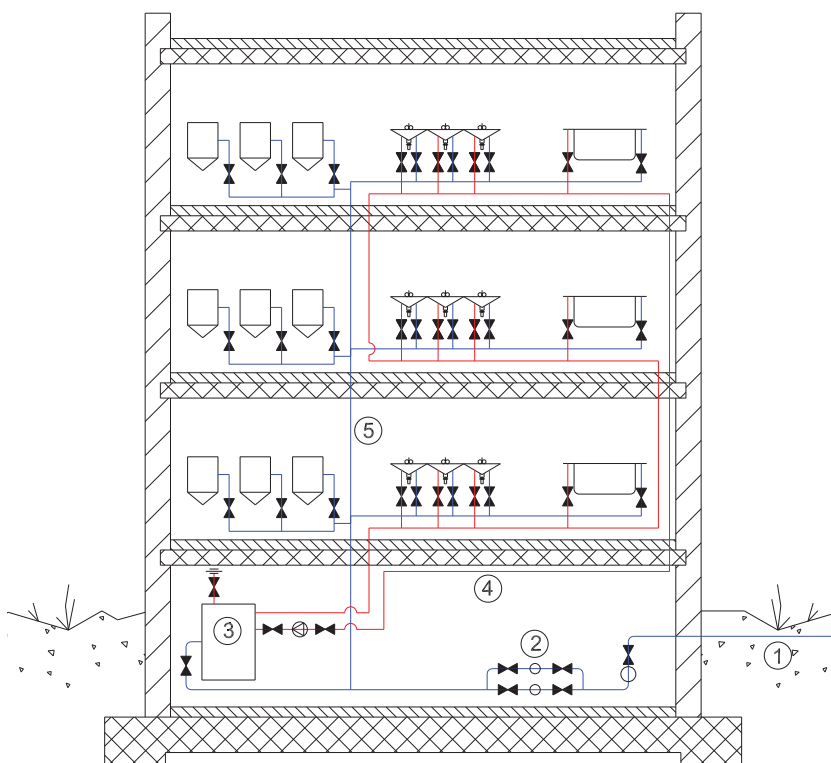
Technical details: Geberit Mapress and Mepla in building services applications:

Operating pressures:

The Mapress press connections are suitable for an operating pressure of up to 16 bar in building services applications, the Mepla press connections up to 10 bar. Higher pressures permissible in special cases.

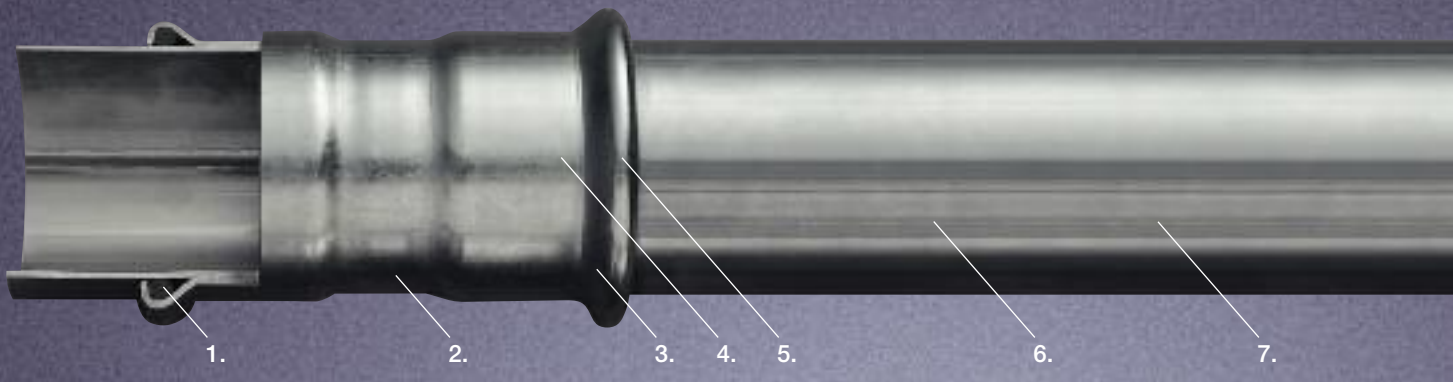
Operating temperatures:

In closed hot water heating systems and potable water systems in building services applications, Mapress can be installed up to 120°C and Mepla up to 70°C . Mapress is suitable for solar and saturated steam installations of temperatures up to 180°C . Without limitation, Mapress and Mepla can be installed in domestic closed cooling water systems.



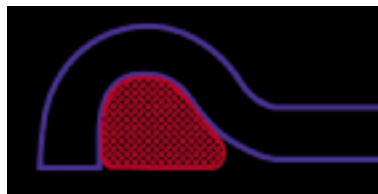
1. Main water supply
2. Pump set
3. Hot water tank/heater
4. Hot water distribution (pumped)
5. Cold water distribution (pumped)

Perfection down to the last detail



Geberit Mapress

The Geberit Mapress press connection system consists of three matched components. The pipes themselves are characterised by their carefully controlled dimensional accuracy and finish. Clear production requirements include complete recrystallisation of the metallurgical structure and welds, with defined surface finishes free from edge misalignment. With their unique profiled seal ring the press connection fittings, which are subject to equally stringent quality control, form a permanently tight pipe connection and ensure quick and easy yet safe and reliable installation.



1. Deformation of seal ring

The seal ring is deformed by the jaws of the pressing tool into a defined shape. This causes it to absorb additional energy that ensures permanent tightness. As a result the Geberit Mapress system has now provided problem-free service for over 35 years.



2. Fitting finish

The clean weld, particularly on the seal location surface inside the fitting, plays a crucial part in ensuring the system remains tight and reducing susceptibility to corrosion. The Geberit Mapress system imposes stringent quality requirements on both fitting and pipe welds.



3. Bead geometry

Our fittings are renowned for their high degree of dimensional accuracy. The diameters, radii and wall thicknesses of their beads are constantly monitored in the course of production. This guarantees ease of assembly, freedom from pressing burrs and complete reliability of our profiled seal ring.



4. Pressing profile

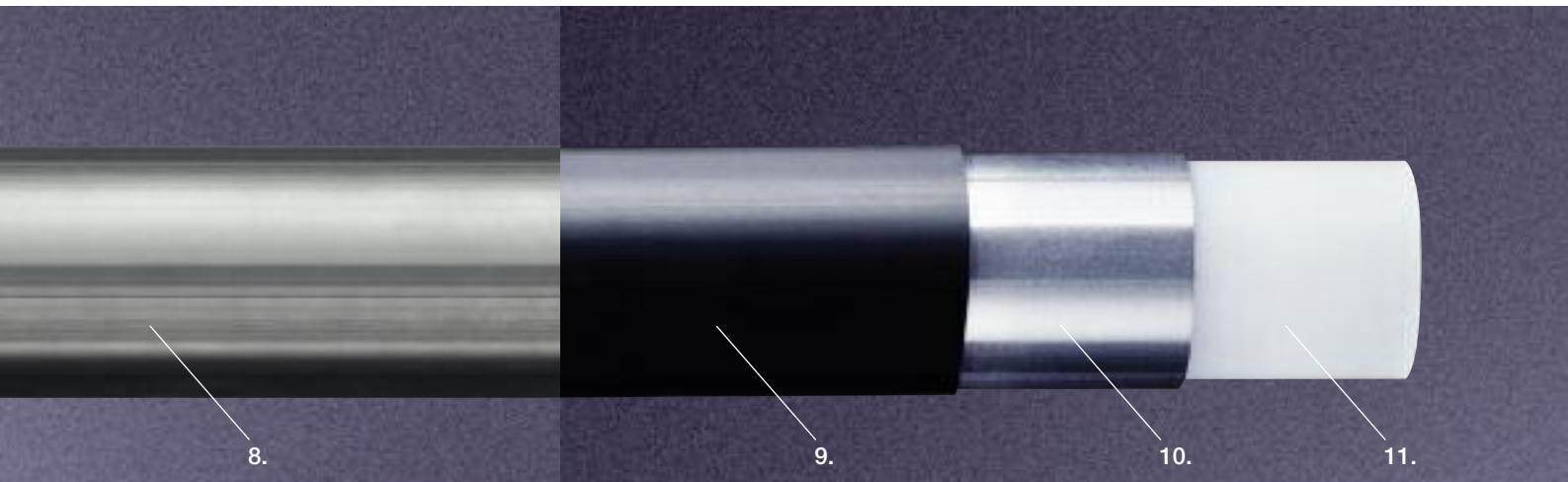
The Geberit Mapress pressing profile is used in a similar way in all materials to ensure maximum tool versatility. With the Geberit system tools we guarantee optimum deformation of the seal ring and give you the peace of mind that comes with our quality approach. Geberit offers a comprehensive guarantee for the entire Geberit press system, on the condition that all system components have been used appropriately and the substances and working conditions in industrial applications have been approved by Geberit. Please contact us for more details.



5. Mechanical strength

The carefully matched components make the Geberit Mapress system so strong it can withstand higher operating pressures than 16 bar (approved in building services): Depending on the dimension and the application, the maximum can be as high as 40 bar. Please contact us to check the relevant maximum in your application.

This extremely high mechanical strength allows a wealth of applications well beyond the usual building service applications.



6. Metallurgical structure

A special heat treatment process creates a homogeneous metallurgical structure. This is just one of the stringent production requirements that makes the Geberit metal fittings deform to exactly the right shape when pressed.



7. Surface finish

The defined finish is an essential prerequisite for the long-term tightness of the system. Roughness values stricter than the standard requirements ensure the system is watertight and prevent weld corrosion.



8. Alloying constituents

Ideal compositions lead to extremely reliable materials and systems. Our factory standard exceeds European stipulations to give you this dependability. For example, the stainless steel system's molybdenum content is well above the minimal requirements.

Geberit Mepla

Since 1989 Geberit has played a pioneering role in the development of water supply pipes. With our multilayer pipes we set new standards in the market. Geberit Mepla pipes bring you the best qualities of metal and plastic in one easy-to-use pipe. It's strong, durable, and simple to work with – a smart solution that's reliable and can be installed quickly.



9. Tough, durable HDPE is non-reactive, flexible and corrosion resistant, and provides the perfect protective outer shell.

10. The middle layer is Geberit patented, edge-to-edge-laser-welded aluminium, which offers extraordinary mechanical stability, in fact, because of this technology, a bent section of Mepla pipe is even stronger than a straight section!

11. The inner layer is cross-linked polyethylene (PE-Xb), which resists cracking, aging, and wear – even when exposed to high temperatures. This makes it the ideal material for use in plumbing and water pipes. It's non-reactive and corrosion free.

The supply system materials at a glance

Mepla: Versatile and safe

Mepla pipes are flexible, resistant, durable and simple to use – a smart solution that is both reliable and quick to install in applications with hot and cold water and heating and cooling systems. The system is suitable for an operating pressure of up to 10 bar and an operating temperature of up to 70°C.

The Geberit Mepla system pipe is made from a high-quality plastic and aluminium alloy. The outer plastic layer of polyethylene (HDPE) protects against corrosion and wear. The central, flush-welded, diffusion-resistant layer of aluminium guarantees stability. The internal layer of cross-linked polyethylene (PE-Xb) is corrosion-resistant, offering hygienic properties. The system connectors are made from the high-quality plastic PVDF.

Mepla system pipes and fittings are available in diameters from 16 to 75 mm.

Carbon steel: Heating, cooling and more

Mapress Carbon Steel systems are popular for closed water heating or cooling systems. It is the perfect material when it comes to fast installation, durability and stability.

Additional applications include fuels and mineral oils (with red FPM seal ring) and compressed air systems, it is also suitable for installation of solar systems (with dark green FPM seal ring).

The Mapress Carbon Steel system pipes and fittings are made of welded, thin-walled, plain precision steel pipes that are electro-galvanized on the outside. Alternatively, you can order the plain pipes with a 1 mm thick polypropylene coating, which are more aesthetically pleasing and don't require painting. The polypropylene coating also helps protect against corrosion impact and resistance.

To distinguish carbon steel fittings easily from stainless steel, they are marked with a red dot and are magnetic. A magnet is located on the Mapress insertion depth tool to help clarify the metal material.

Mapress Carbon Steel system pipes and press fittings are available in diameters from 15 to 108 mm.

Carbon steel pipes for sprinkler systems

The Mapress Carbon Steel pipes, both outside and inside/outside galvanized are suitable for sprinkler systems. They are available in diameters 15 to 108 mm and installed with the Mapress Carbon Steel fittings.



Mepla fittings from PVDF.



Red marked Mapress Carbon Steel fittings.



Mapress Stainless Steel fittings.



Mapress Carbon Steel pipes for sprinkler with Mapress Carbon Steel fitting.



Mapress CrNi Steel pipes.

Stainless Steel (BS316): The universal material

Stainless steel fulfils the most stringent health and safety requirements for conveyance of drinking water in both private and public applications. But due to its high corrosion-resistance it also offers a broad choice of applications with aggressive media. Mapress Stainless Steel system pipes and press fittings are available in diameters from 15 to 108 mm.

CrNi steel pipes (BS304)

Mapress CrNi Steel pipes are available in diameters from 15 to 108 mm. They are connected with the Mapress Stainless Steel fittings. The good resistance to corrosion makes these pipes suitable for heating and cooling systems, compressed air and many industrial applications. Stainless Steel (BS304) is also available for use with heating and cooling systems and many industrial applications.



Mapress Stainless Steel Gas fittings.

Stainless steel fittings for gas applications:

For safe, high-quality gas installations

The Mapress Stainless Steel Gas system is appropriate for use with natural gases, petroleum gases and liquefied gases. For all other gases, please contact us for further information.

Please note: When working with gas installations, always observe relevant local regulations.

The fittings are installed with the Mapress Stainless Steel system pipes (BS316). They are available in diameters from 15 to 108 mm.



Mapress Copper fitting.

Copper: The specialist material for heating and water

Made from high grade DHP copper (CW024A) and red brass (2.109), copper is the right choice for installing hot water heating, cold water cooling and water supply systems. Copper fittings are available in diameters 15 to 108mm.

Mapress Copper Gas is also available; the fittings incorporate HNBR seal rings suitable for use with natural gases, petroleum gases and liquified gases. For other gases please contact Geberit for further details.

Please note: When working with gas installations, always observe relevant local regulations.



Mepla-Mapress adaptor.

Mepla-Mapress adaptor: Making the system complete

The perfection and versatility of the systems is completed by the range of Geberit Mepla-Mapress adaptors. You can combine the advantages of metal and composite layer pipes in one single project, with the benefits of a pressed connection all through the installation.