Pimaflex multipipe combines all the benefits of plastic and metal in one pipe. This ensures state of the art products and quality, high degree of flexibility and endurance, coupled with high pressure and temperature stability. For plumbing, heating/cooling or radiant temperature control there's nothing like *Pimaflex multipipe* systems for smart installation.

A unique bond

Pimaflex multipipe multi-layer composite pipe consists of an overlapped, longitudinaly welded aluminium pipe with an inner and outer layer of high temperature-resistant polyethylene. All layers are permanently bonded together by intermediate adhesive layers. A special welding technique ensures high reliablility. The aluminium thickness for *Pimaflex multipipe* has been specially selected to meet compressive and flexural strength requirements.


ZERTIFIKAT SKZ

Certificate

SKZ - TeConA GmbH awards the following company

WRW - Westfälische Rohrwerke GmbH
Kruppstraße 29
59227 Ahlen-Vorhelm

the right to use the SKZ - testing and inspection mark

A 397 Trade name: SMARTPIPE

for the following plastic products

Heating pipes
Multilayer pipes made of PE-RT/Al/PE-RT

SKZ specification for tests and inspection HR 3.12

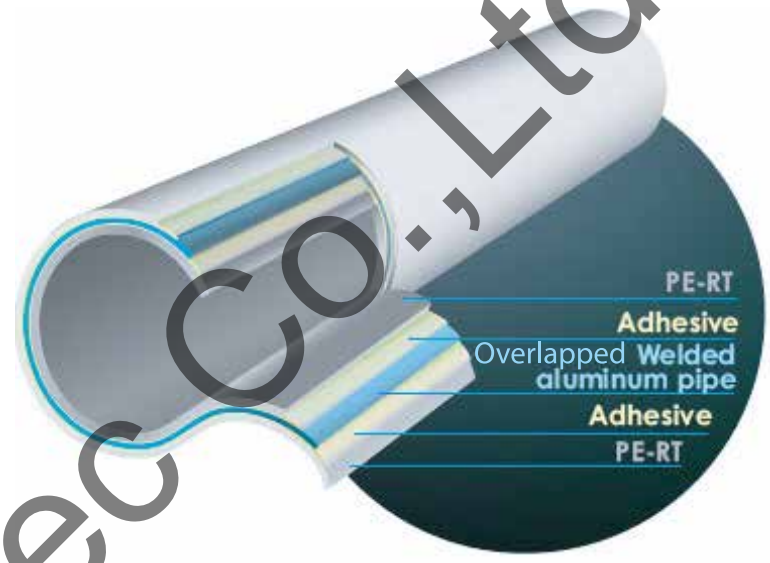
Users of the SKZ - mark are obliged to observe the required regulations for the production and testing of these products.
Date of initial certification: 18 May 2005
Date of expiry: 22 March 2015

Würzburg, 23 March 2010

i.V.

Certification body

The original language of this certificate is German. In case of doubt, the German version is obligatory.



Hightest material safety

Selected raw materials and a long experiece in production guarantee the high quality of a technically perfected product. Test certificates from internationally renowned independent institutes confirm this high quality. The pipe offers a high loading capacity at tmax 95˚C and pmax 10 bar for the daily use.

Simple bendability

The standard diameters up to 32 mm can be easily bent without any tools. A bending spring provides exact rounding at narrow bend radius.

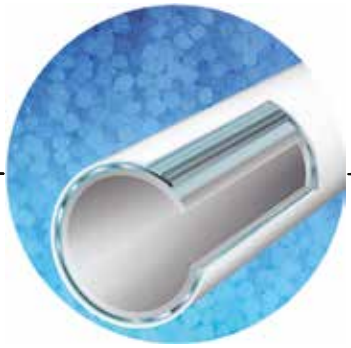
Pimatec Co., Ltd.
71/138 Parichart Village, Moo 6 Soi A 18 Sai 345 Road, T.Bangkuwat, A.Muang, Pathum Thani 120000
Tel : +66 (2) 962 2665 , Fax : +66 (2) 962 2664 email : info@pimatec.com , www.pimatec.com

Advantages

With our five-layer composite pipe, you no longer have to decide whether to take metal or plastic because *Pimaflex multipipe* combines the benefits of boths.

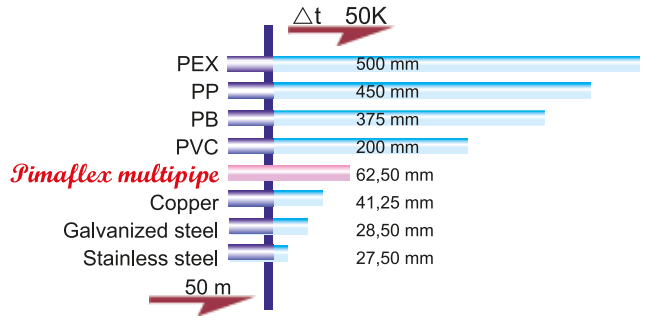
metal pipes

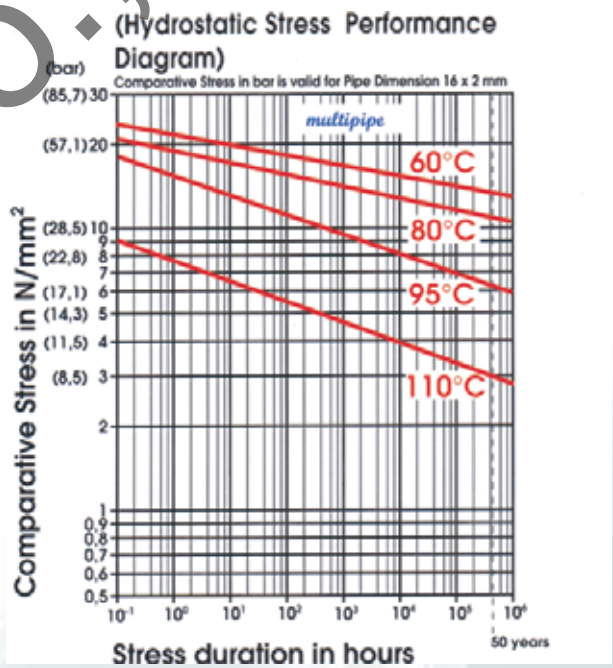
high form stability
high bursting pressure
fewer fixing points needed
100% oxygen and gas tight
high long term rupture strength
small heat expansion



plastic pipes

fewer fittings
non corrosive
high flexibility
non incrustation
low weight
chemical resistance
coils or straight length
fast installation techniques
low flow resistance, smooth inside

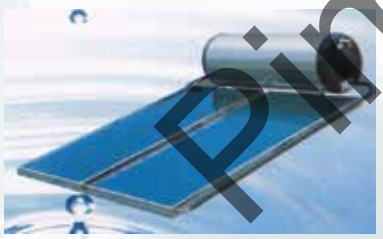




Guarantee

We guarantee that our products leave our warehouse in best quality. Through our guarantee, we keep our word for period of 10 years.

Applications



Hot water systems

The *Pimaflex multipipe* system is used for distribution of the hot water through the whole house.

Cooling systems

Imagine walking from the sweltering Sun and into a cool room without the use of Air conditioners.
With radiant cooling systems, people are cooled by radiant heat transfer from their bodies to adjacent surfaces - ceilings, walls or floors - whose temperature are held a few degrees cooler than ambient.
The concrete core conditioning systems with *Pimaflex multipipe* tubes embedded in a concrete slab allows for peak load shifting because of its thermal storage capacity. This could be used also as a wall mass.

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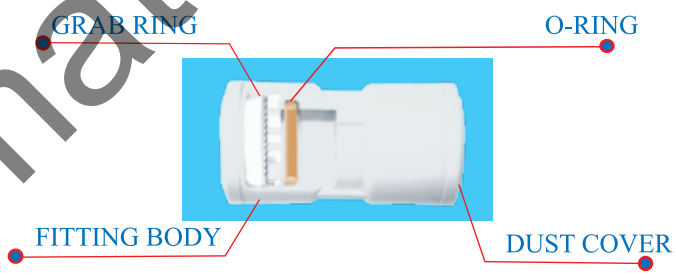
Pimaflex Push Fitting

Pimaflex Push Fitting has been invented for easy and fast installation. Made from high quality Poly-propylene from Germany the push fitting provides many benefits for hot and cold water systems in regards of strength and temperature.

Benefits

- A comprehensive range of fittings provide a complete system for potable water.
- Fast, leak proof and simple installation, requires no specialist site equipment or skill labor.
- Slim enough to be buried in walls and able to withstand very high pressure.
- Long durability due to the high resistance to aggressive elements, which gives the system a long service life.
- Incomparable smooth and porosity free internal surface of both pipes and fittings, which results in very low pressure loss and absence of incrustation.
- Non toxic and physiologically harmless material.
- Resistance to bacteriological attack, thus enabling safe and potable water transfers.
- High preservation and energy saving abilities.
- High acoustic insulation against fluid noise.
- Light weight compared to the metallic piping system.
- Cost effective pipeline network.
- The fitting is designed to allow the pipe to reinstall when needed.
- Outlet thread is patented bronze-plastic combination to protect water leakage.

How it works



1. Push the Pimaflex multipipe into the fitting body until the pipe touches the edge inside of the fitting. Check the pipe mark to ensure it is done properly.
2. Stainless steel grab ring grasps the pipe instantly. When the water pressure increases, grab ring slides back and its teeth are fixed on the surface of the pipe more firmly.
3. O-ring seal is made from EPDM and is coated by food-grade silicone grease to lubricate and make the rubber life longer.
4. Dust cover protects the fitting against the dirt or wet cement during installation.
5. In case of dismantling, the release key is inserted in the gap between the edges of the grab ring. After the teeth are extracted, the pipe is pulled out easily.

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The Jointing of the Pimaflex Push Fitting.

1. Cut the pipe square with the pipe cutter.

2. Push the sleeve into the pipe.

3. Mark the pipe by measure with the pipe depth line on the fitting.

4. Put the pipe into the fitting carefully. Beware to keep it straight and be sure that the pipe will not be lean.

5. Push the pipe end into the fitting until it touches the edge inside of the fitting.

How to uninstall the Pimaflex Push Fitting.

1. Take off the dust cover.

2. Insert the release key by pointing the fin to the gap between the grab ring.

3. Push the release key into the fitting until the edge inside the release key touches the edge of the fitting.

4. Pull out the pipe from the fitting.

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