

PEXGOL®

APARTMENT

The Leading Pipe for Residential Water Supply Systems

Instructions for Installation of a Residential Water Supply System



GOLAN PLASTIC PRODUCTS

PEXGOL®

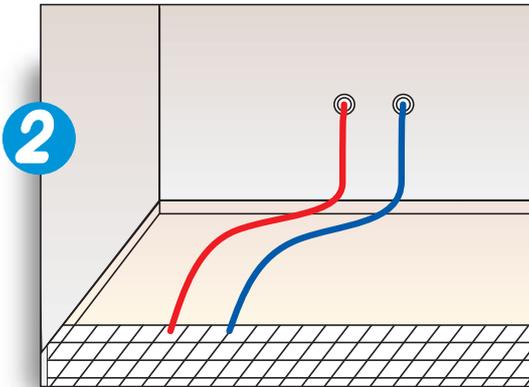
Instructions for Installation of a Residential Water Supply System



1

Central distribution cabinet

Position the Central Distribution Cabinet as close as possible to the water outlet points. Two distributor units are to be installed in the cabinet: one for cold water and one for hot water. Leave sufficient room for easy access to the lower distributor, water supply lines and valves. The distributor should be placed at least 50 cm above floor level.



2

Proper installation

The conduit pipe should be installed in the walls and under the finished flooring along the shortest possible route and in one continuous line from the distributor to the water outlet ports. The conduit pipe must be fixed in position before the PEXGOL pipe is inserted through it. Alternatively, the PEXGOL pipe may be pre-inserted into a red or blue conduit pipe in the "GOLAN" plant and supplied together with the conduit pipe. In that case, number 4 below may be omitted. Care must be taken to ensure that the bending radius of the conduit pipe is at least 8 times its diameter. The diameter of the conduit pipe must be larger by two diameters than the diameter of the corresponding PEXGOL pipe (for example, for a PEXGOL pipe 16 mm. in diameter, the conduit pipe should be 25 mm, for a 20 mm. pipe, the conduit should be 32 mm, and for a 25 mm. pipe, the conduit pipe should be 40 mm).



3

Plastic box

The plastic box serves as a housing for the 105° elbow for connecting the PEXGOL pipe to the tap. Anchor the plastic box in the wall, embedded in cement, for a single or double tap as required. Care must be taken to ensure that the plastic box protrudes 15mm from the face of the wall. The nuts in the housing should be made of brass to prevent corrosion.



4

Inserting the PEXGOL pipe

The PEXGOL pipe is to be inserted starting from the distribution cabinet up to the water outlet (tap). The pipe should be 40 cm longer than the actual distance, to allow for easy connection of the accessory at the water outlet point. **IMPORTANT!** Do not cut the pipe at this stage! Carefully pull the pipe out through the plastic box (elbow housing) at the water outlet point with the help of a screwdriver and then cut approximately 2 cm from the end.

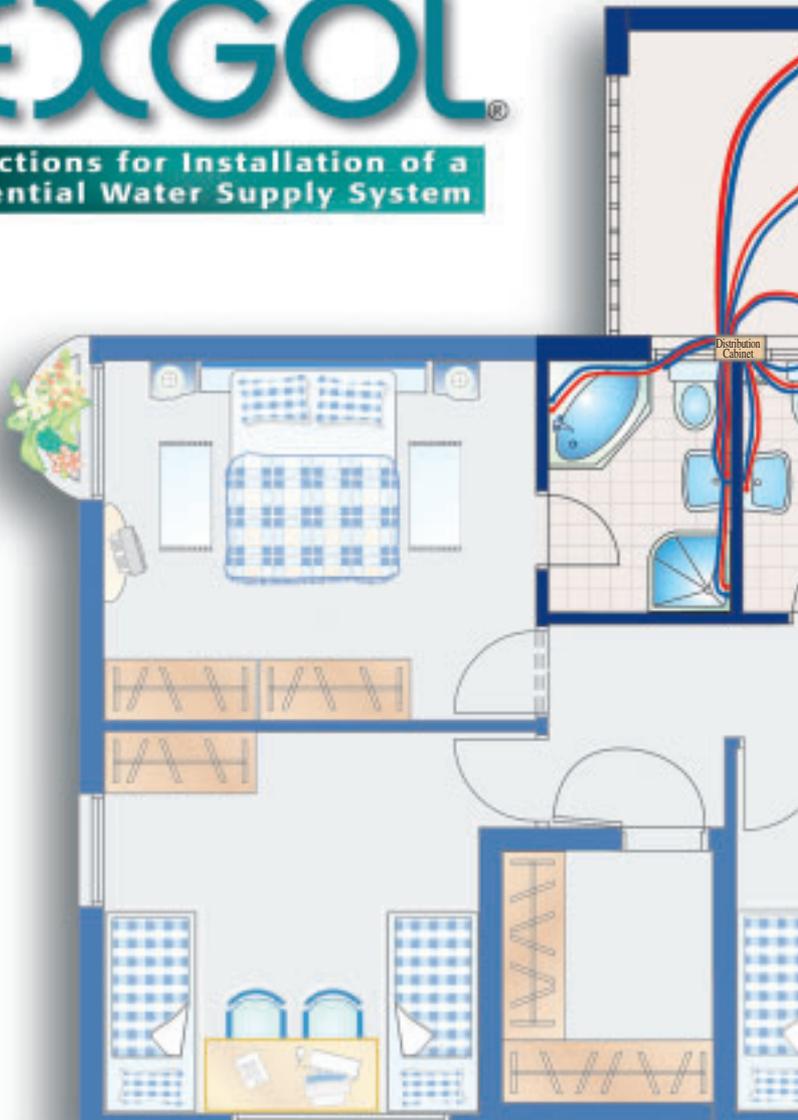


5

Installation of the 105°

The 105° elbow connector is to be installed in the following manner:

1. Place nut and split ring on the pipe.
2. Insert elbow into the pipe.
3. Tighten the nut with a #2 screwdriver.





9

Tools

The tools required include cutting shears for plastic pipe, an open end wrench and a screwdriver. Use a spirit level in order to set the 105° elbows in the right position (horizontal and vertical).



8

Fitting the PEXGOL pipe with a brass connector

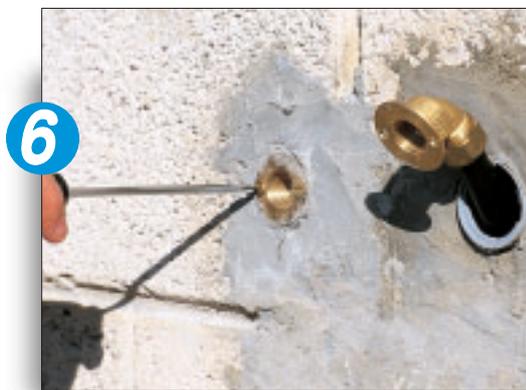
The pipe is to be connected following these consecutive steps:

1. Place nut and split ring on the PEXGOL pipe.
2. Insert the fitting into the pipe end.
3. Slide the split ring towards the connector and tighten the nut with a suitable wrench.



105° elbow connector

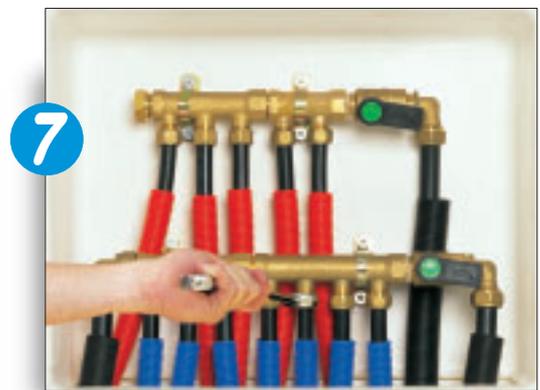
is installed in the following...
in the pipe.
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24 wrench.



6

Attaching the 105° elbow to the plastic box

After connecting the 105° elbow to the PEXGOL pipe, push the extra length of pipe back into the conduit pipe by pushing the plastic box in the direction of the distribution cabinet. Connect the 105° elbow to the plastic box using two 3/16" X 1 1/2" screws. Only brass or stainless steel screws are to be used to prevent corrosion. At this stage it is now possible to connect a single or double water tap.



7

Connecting the pipe to the distributor

Connect the other end of the PEXGOL pipe to one of the distributor outlets. Identify the pipes as hot or cold water pipes and make sure they are connected to the hot and cold water distributor outlets respectively. The method of connection is the same as for installing the 105° elbow.

PEXGOL THE RELIABLE PIPE SYSTEM

The Quality of Installation

PEXGOL is an excellent system for hot and cold water. It is completely impervious to internal and external corrosion and prevents the build-up of stone sediments.

"Without Breaking Wall Tiles"

Domestic pipelines run through the most expensive areas of the apartment: the kitchen, bathroom and toilets. The PEXGOL system prevents the need to break tiles, walls and flooring. Repairing the system is performed by simply pulling out the PEXGOL pipe from its conduit pipe, allowing easy and convenient access to every part of the system, and easy re-insertion of a new pipe.

Hot water, always clear...

With PEXGOL, you'll see the difference - a clear stream of water - quality of life!

Swift and Elegant Installation

The simplicity of the system - a pipe within a pipe - means quick, easy installation in less than half the time needed to install any other system.

No need for insulation

The PEXGOL pipe itself has very low thermal conductivity and the air trapped between the PEXGOL pipe and the conduit pipe significantly increases the insulation value, so that no additional insulation is required!

Over 30 years of experience, 10 year guarantee

PEXGOL is backed by over 30 years of first class experience in Israel, Europe and the United States and hundreds of thousands of families living in comfort and without concern, thanks to the reliable system which meets all European and Israeli standards.

PEXGOL pipes are approved and constantly tested by various international standard institutes. The quality assurance system of Golan Plastic Products is approved and continuously audited by the Standards Institute of Israel.

PEXGOL pipes for underfloor heating

The most logical method for domestic heating is from the floor upwards. The radiant floor technology consists of special PEXGOL pipes installed under the floor with hot water circulating through it. The pipes are coated with O₂ diffusion barrier and comply with DIN 4726. This heating system is now being installed in over 60% of new buildings in Western Europe.

The advantages of radiant PEXGOL include:

Comfort: Radiant floor with PEXGOL creates a very pleasant atmosphere with an ambient temperature of approximately 20°C. The heating system preserves the natural humidity, and its mode of heat-transfer prevents the phenomena of "cold walls". The comfortable temperature is maintained up to 1.9 meters above the floor level, which is very significant in cases of wide spaces with high ceilings.

Optimum heat distribution: The heat is distributed evenly to all areas.

Economy: Water of a relatively low temperature (40°C max.) is utilized. This ensures a significant energy saving compared to other systems which require temperatures of 70°C to 90°C.

Flexibility: The water may be heated in any way, including solar heaters. The radiant floor heating system allows the use of new technologies which may be available in the future.

Furniture can be arranged with no restrictions, and unattractive radiators removed from sight.



A clean house: Cleaning the floor is easier with this system. No need for noisy ventilators which circulate dust, germs and pollen. However, if required, PEXGOL pipes can be used with any conventional heating system such as radiators etc.



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