

Uponor offers its customers quality, service, up-to-date expertise and a long-term partnership. As one of the leading companies in plumbing and indoor climate, we are well-known for solutions which enrich people's way of life.

Our brand promise 'simply more' ensures that you are guided and assisted at all stages of projects – from the initial design through to use in your building.



#### More comfort

Although generally concealed once installed, our solutions provide comfortable warmth or pleasant cool air in buildings on a daily basis. You can thus enjoy sheer comfort at home or in the workplace in both summer and winter.



#### More sustainable

Our solutions demonstrably reduce energy consumption and CO2 emissions from buildings. In this way, we take affirmative action together with you to help our environment and future generations.



#### More efficient

Our systems are completely reliable, can be quickly and easily planned and are easy to install. This enables you to achieve a perfect end result even more efficiently while also saving time and costs.



#### More health

Our technologies have been tested down to the tiniest detail to ensure drinking water fully meets all hygiene requirements. You are thus always on the safe side.



#### More reliability

We use our many years' expertise and comprehensive services to assist you at each stage of your project in any way that we can. You have a partner at your side that you can rely on.

Uponor Corporation  
P.O. Box 37  
FI – 01511 Vantaa  
Finland

[www.uponor.com](http://www.uponor.com)

**uponor**

uponor

## Comfort pipe PLUS

THE MOST FLEXIBLE UPONOR PE-XA PIPE OF ALL TIME



Inspired by  
nature

Specially developed for  
radiant heating and cooling

# Comfort pipe PLUS

Manufactured using enhanced UAX™ Technology, the new Uponor Comfort Pipe PLUS PE-Xa reduces installation times while also maximising reliability.



## Uponor UAX™ Technology

NEW



As one of the leading suppliers of plastic pipe systems, Uponor attaches great importance to product development. The new Uponor **Comfort Pipe PLUS** is manufactured based on the innovative UAX™ Technology. This production process is the latest step in the consistent further development of the PE-Xa pipe, now in existence for over forty years.

The following aspects were adapted to future requirements during production process development:

- Use of new pipe materials and innovative components for manufacturing PE-Xa pipes.
- New extrusion process.
- Uponor cross-linking process.
- The new **Comfort Pipe PLUS** can be identified by the two blue stripes on the white outer layer of the pipe and on its trademark **Comfort pipe PLUS**
- Compatible with Uponor connection technologies Quick & Easy, Rapex Press-Couplings and Vario compression fittings.

At Uponor, we see nature as an ingenious design engineer since it is capable of creating perfect structures which are able to withstand mechanical stress using minimum raw materials and energy. Even the smallest details are eliminated or perfected by evolution.



Q & E coupling



Rapex Press-Couplings



Vario compression fitting



Uponor Comfort Pipe PLUS delivers material qualities such as durability, impact resistance and resistance to stress cracking in all weather conditions.

## Extra Safety

Uponor Comfort Pipe PLUS has been specially developed for radiant heating and cooling and impresses thanks to the latest **UAX™ Technology** featuring excellent mechanical properties:

**+10% higher cross-linking than required by industrial standards**

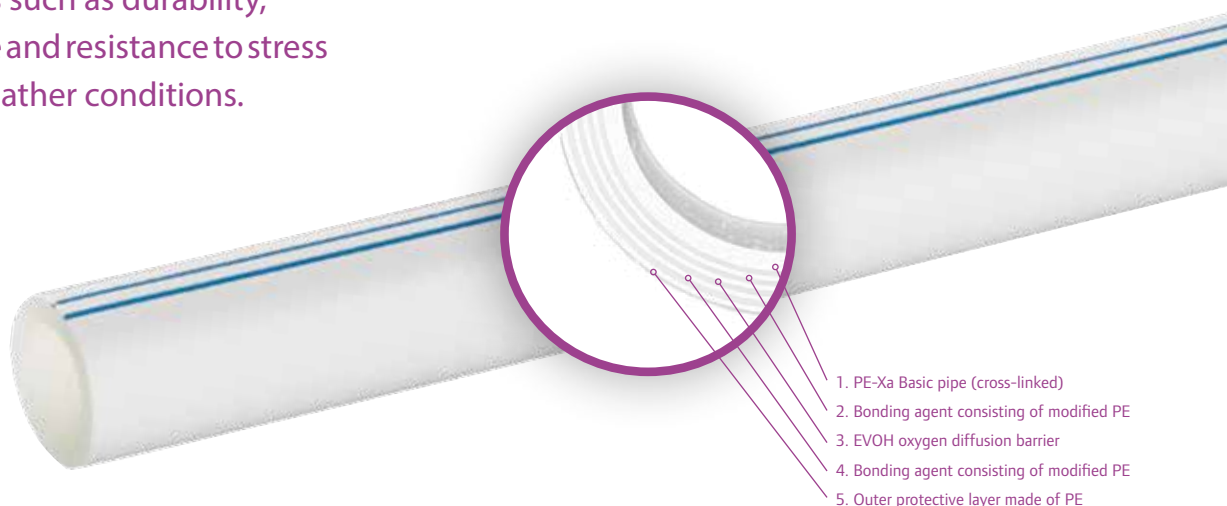
**+14% higher flexibility**

**+10% higher elasticity**

We have thus improved our time-tested **Uponor PE-Xa** pipe even further and offer you enormous advantages in your work as a planner or installer:

### Your benefit:

- The optimum flexibility is specially designed for the extreme requirements in underfloor heating, ceiling cooling systems or TABS.
- You can now lay pipes even faster and even more efficiently, thus achieving significant time and cost advantages.
- The flexibility ensures greatly improved handling, even at low temperatures.



**With its 5 layers, the Uponor Comfort Pipe PLUS features two more layers than standard PE-Xa pipes. These layers perform the following functions:**

❶ The Uponor Comfort Pipe PLUS is based on a PE-Xa pipe, which is produced as per the requirements specified in EN ISO 15875. It features material qualities such as durability, impact resistance and resistance to stress cracking.

❷ The second layer provides a permanent bond between the basic PE-Xa pipe and the oxygen diffusion barrier.

❸ The third layer prevents oxygen from diffusing into the radiant heating / cooling system. The EVOH delivers an impermeability to oxygen which meets or exceeds DIN 4726 requirements. This prevents oxidation of metal components within the system.

❹ The fourth layer provides a permanent bond between the outer protective layer and the oxygen diffusion barrier.

❺ The fifth is designed to protect the oxygen diffusion barrier against damage from high mechanical stress during routine work on building sites, especially if the pipe is drawn over concrete while being installed.