

LOGSTOR PertFlextra

The right choice makes the difference.



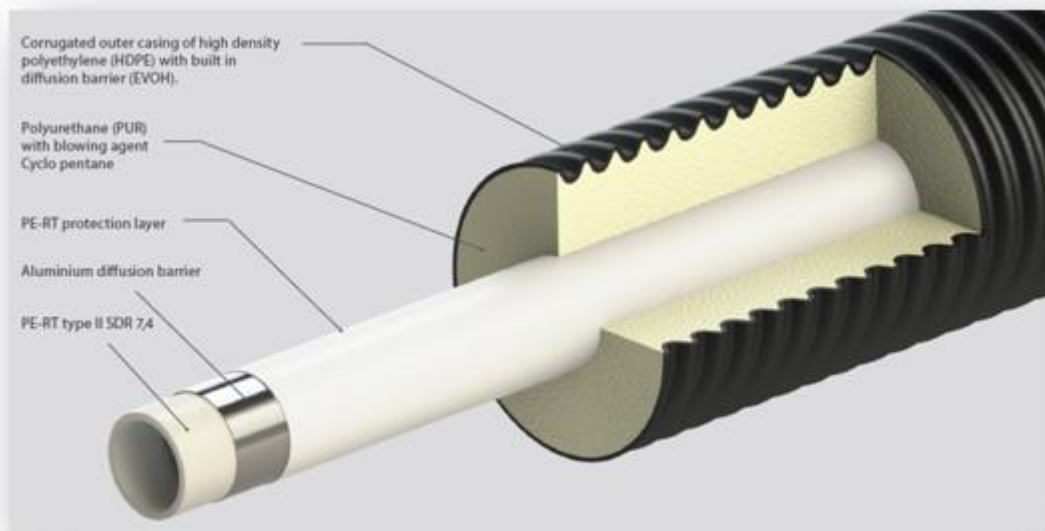
What's in it for you? After tenacious engineering and testing we are now ready to present what we consider a breakthrough product in our product portfolio. ONE PRODUCT offering flexibility, low heat loss and longer lifetime through innovative design.

LET US TELL YOU, HOW LOGSTOR PERTFLEXTRA WORKS FOR YOUR BENEFIT!

PertFlextra is a complete range of diffusion tight, flexible pre-insulated pipe systems for community- and district heating according to EN17878-1/2.

The service pipe in PertFlextra is made of very flexible polyethylene PE-RT type II, featuring an aluminium diffusion barrier that prevents the diffusion of oxygen into the water and water vapor from the water into the insulation ensuring dry insulation over lifetime.

The service pipe is insulated with polyurethane foam (PUR) and the outer casing is a corrugated casing of PE-HD with built in EVOH diffusion barrier that will ensure that heat loss property will not deteriorate over lifetime.



Your advantages

We have made great efforts to ensure that our new PertFlextra pipe offers premium performance. Over a working life of minimum 50 years (according to EN17878), the operational cost savings - due to low heat loss - speak for themselves!

We believe in innovation and vision, and we are confident that the LOGSTOR PertFlextra represents the next generation of district heating pipes with long-lasting benefits:

Robustness

- Self-compensating design eliminates any need for expansion fittings.
- Strong enough for installation using guided directional drilling as service pipelines.
- No cracks in the PUR foam when bending the pipes.
- Fulfil requirement to linear water tightness.

Easy installation

- PertFlextra is easy to bend and install due to its flexible corrugated casing and soft foam.
- Press couplings that are easy to install.
- Easy pass of vegetation and obstacles and to lay in hilly areas.
- Low bending force while still living up to requirement in the standard to linear water tightness.
- Installed from a coil in long length result in fewer couplings.
- On TwinPipes the service pipe is marked with a red indicator.

Less risk of failure/long lifetime

- As the pipes are supplied in coils in long lengths, the need for connections will be minimal.
- The foam bonds perfectly together with the casing and service pipes ensuring linear water tightness.
- Full range of compression couplings, press coupling, joints and tools for safe installation.
- SDR 7,4 leads to longer lifetime compared to SDR 11 plastic service pipe (according to Miner's rule).
- Lifetime calculations are based on Miner's rule according to EN15632-2, Annex A and EN17878-2, Annex A.

Low cost of ownership due to low heat loss

- The aluminium diffusion barrier on the service pipe prevents water vapor diffusion and wet foam and maintains insulation property over its lifetime.
- The EVOH diffusion barrier in the casing ensures no deterioration of insulation properties throughout the lifetime.
- Low lambda value.
- PertFlextra does not require multiplying the declared lambda value by 1,1 and 1,25 according to EN15632-1, Annex B and EN17878-1 Annex B.

Minimize installation cost

- Long length in coils result in less couplings and joints.
- Possibility of minimizing excavation and installation cost.
- Coils are optimized for transport on trucks and in containers.

Sustainability

- PE-RT is recyclable without chemical recycling, unlike PEX.
- PE-RT does not require cross-linking.

An alternative to pre-insulated bonded steel pipe system

- High speed of installation.
- No dependency on steel welders.
- The water vapor diffusion issue is solved with the aluminium diffusion barrier on the service pipe.
- Low weight.
- Long coils that require less couplings.
- No need for X-ray of steel weldings.
- No need for static calculations and handling of expansion.

