

Multilayer pipes PERT-AI-PERT

Material

- PERT – raised temperature polyethylene - DOWLEX
- bonding layer - adhesive
- aluminium
- bonding layer - adhesive
- PERT – raised temperature polyethylene - DOWLEX

Area of application

- installations of hot & cold tap water
- central heating (radiator connections)
- surface heating (underfloor and wall heating installations)
- ice water

Construction

Tweetop PERT pipes have a multilayer structure - their core is made from ultrasonically welded aluminium pipe. After adding two layers of the raised temperature polyethylene (PERT) material to the inside and outside of the aluminium pipe, we obtain a multilayer pipe capable of simultaneous work under the influence of pressure and temperature rated at 10 bar and 95 deg C. This unique combination of plastic material and conventional aluminium insert allow Tweetop PERT pipes to keep the advantages of both, traditional and plastic pipes while eliminating their disadvantages.

Constant operating parameters

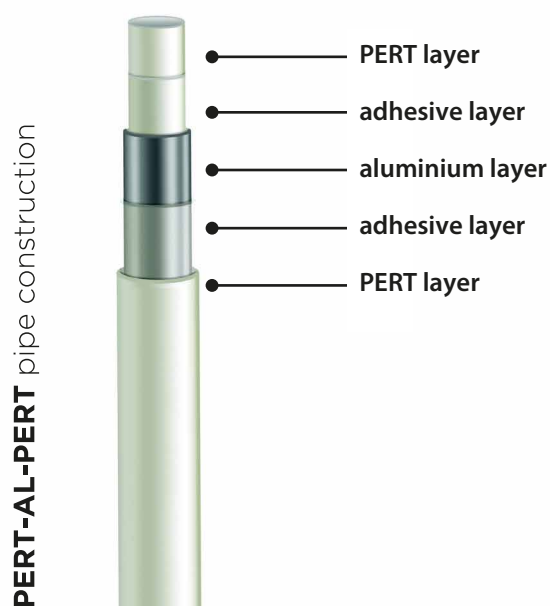
- radiator connections: temp. 95°C under pressure of 3 bar or temp. 90°C under pressure of 6 bar
- tap water: temp. 60°C under pressure of 10 bar with possible anti-legionella overheat

Dimension range

16x2, 18x2, 20x2, 25x2.5, 32x3, 40x4, 50x4.5, 63x6, 75x7.5

Technical properties

- **durability** - estimated lifespan of min. 50 years
- **energy - saving** due to low pressure losses and low thermal conductivity
- **flexibility with no shape remembrance** - multilayer pipes are more flexible than any other known pipes and can be bended without any supports. Bending radius is on the level of 4-5 x Dn
- **thermal stability** (0.025mm/mK) - very low thermal expansion coefficient (0.025mm/mK), is comparable with values characteristic for steel or copper pipes
- **total impermeability of connections**
- **resistance for oxygen diffusion** - both pipes and fittings are totally resistant for oxygen diffusion
- **possibility of making connection with any other pipes** by using threaded couplings
- **low weight**
- **wide diameter range** (16-75mm)



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Tweetop PERT

system offer includes pipes and fittings in 16 - 75mm diameters with a set of essential accessories and installation tools dedicated to specific applications of the system.