



made in germany

PE-RT pipes

Basic material:
PE with raised temperature
resistance (Dowlex 2388 Type 2)

- Different colours available
- max. operating temperature
+70° C
- max. operating pressure 6 bar

QUALITY AND FLEXIBILITY

High quality pipes with or
without oxygen barrier
(diffusion tight according to
DIN 4726)

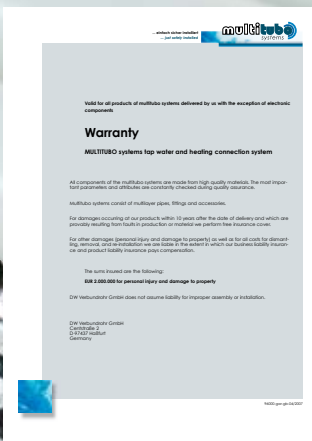
Also available in corrugated
protective tube



QUALITY AND FLEXIBILITY



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Safety

According to our high company standards, we stand for longlasting and safe products. This is documented by the certificate of the german DIN CERTCO institute and our additional warranty. Therefore our clients can rely on absolute safety in daily work.

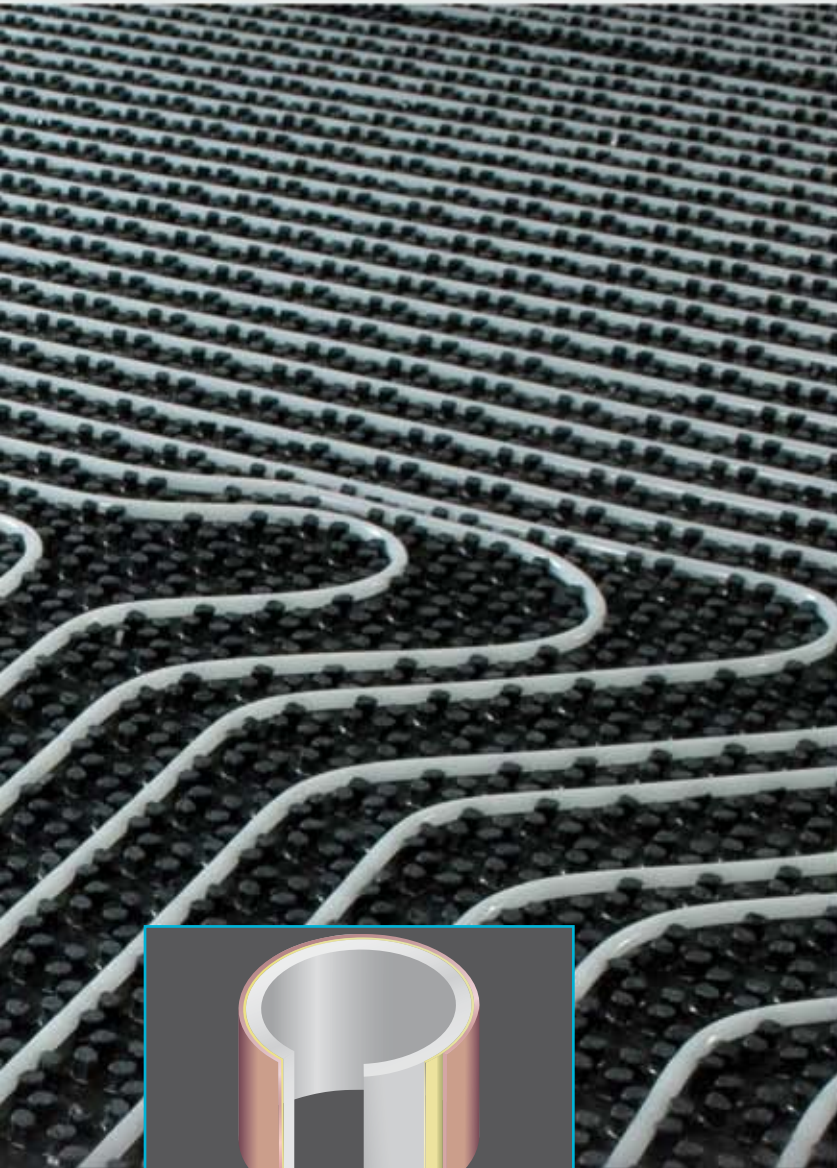
Production

High quality pipes produced in Germany at outstanding standards with state-of-the-art machinery. Under continuous control of an experienced team – proved quality for our customers.

Material

PE-RT, developed by Dow Chemicals, is an astonishing and innovative material for installation pipes. This material has become the leading material for many purposes. As a result, our pipes are manufactured with the Dowlex PE-RT 2388 material from Dow Chemicals, the original and most sophisticated one.





Oxygen tight

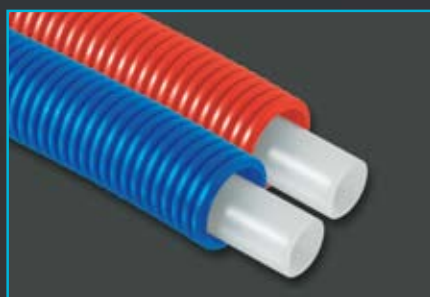
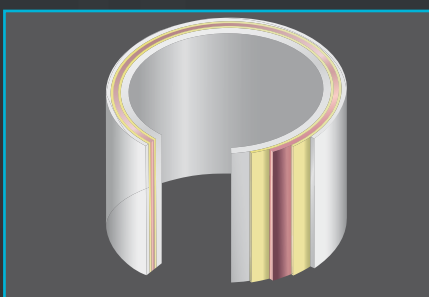
To prevent the installation from permeation of oxygen, our pipes are manufactured with an oxygen barrier (EVOH). This barrier can be manufactured as an outer layer or embedded between an inner and outer layer of PE-RT. Both ways guarantee a highest protection against the permeation of oxygen according to DIN 4726/89.

Pipe in pipe

For an economical handling of supply lines, we offer a pipe in pipe as well. This will mean an enormous advantage in handling the pipes at the building site. There is no loss in time to equip installation pipes with corrugated protection pipes.

Handling

PE-RT is not only an outstanding material concerning its characteristics for heating uses. Also the handling of the pipes is much easier, as it is less rigid than PE-x pipes. Less power to install the pipe means more length to be installed within the same time.



Pipes made of Polyethylene with raised temperature resistance (PE-RT), highly flexible. The basic material is high quality PE-MD according to DIN 16833. Pipes can be equipped with EVOH oxygen barrier layer diffusion tight according to DIN 4726/29. The oxygen diffusion rate is considerably below limit defined by DIN 4726. Permanent EVOH oxygen barrier layer by HP-process.

Fields of application

Panel heating & radiator connection

Technical specifications

Production according to DIN 16833E. Unstable to UV radiation.
Special Note: Protect PE-pipe against insulation during transport and storage.

Characteristics		Testconditions
Max. operating temperature	+70 °C	
Short time temperature rise	+90 °C (max. 2 years)	
Max. operating pressure	Class 4: 6 bar Class 5: 4 bar (see categorization below)	ISO 10508
Minimum bending radius	5 x d	DIN 4726
Best temperature for installation	-5 °C to 30 °C	DIN 16892
Heat conductivity	0,35 W/mK	DIN 52612
Coefficient of linear expansion	$14 \times 10^{-4} \frac{1}{K}$	DIN 52328
Diffusion thightness (with EVOH oxygen barrier)	< 0,10 mg/(m ³ xd) demanded value (acc. to DIN) 0,022 - 0,026 mg/(m ³ xd). Value approved by continuous verification.	DIN 4726 DIN 4726
Raw material	PE-MD	

Categorization

Class of appliance 4	Panel heating, low temperature radiator connection	DIN EN ISO 15875
Class of appliance 5	high temperature radiator connection	DIN 4724

Dimensions (samples)	Inner diameter	water content
PE-RT 12 x 1,50	9,0 mm	0,064 l/m
PE-RT 15 x 1,80	11,4 mm	0,102 l/m
PE-RT 16 x 2,00	12,0 mm	0,113 l/m
PE-RT 17 x 2,00	13,0 mm	0,133 l/m
PE-RT 20 x 2,00	16,0 mm	0,201 l/m

Other Dimensions

Other dimensions on request

Internal and external controls by DIN CERTO DIN-Reg.-Nr. 3V 204 PE-RT.

DIN CERTO system approval as wet installation system, see DIN Reg._Nr. above.

The technical data of this data sheet reflect the state of our knowledge and of our experience at the time of printing (May 2009). As far as not explicitly appointed the technical data do not represent warranties in legal sense. The state of experience is permanently in progress. Please use the latest version of this data sheet. The fields of application described above can't consider special circumstances of single cases. The suitability must be checked for the certain situation. A supply of our products exclusively takes place on basis of our general terms of sales and delivery.