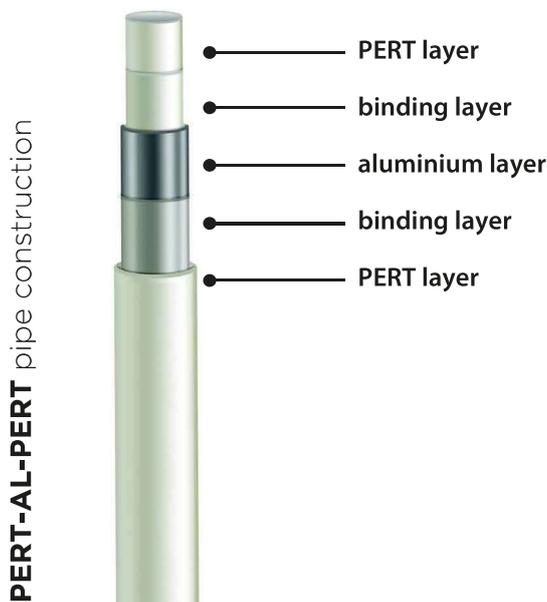


# Multilayer pipes PERT-AI-PERT

## 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.



Dimension »	16x2	18x2	20x2	26x3	32x3	40x4	50x4,5	60x6	75x7,5
Inside diameter Dw [mm]	12	14	15,5	20	26	32	41	51	60
Pipe length in a coil [m]	200	200	200	100	50	25	-	-	-
Pipe length in a straight bar [m]	-	-	-	-	4	4	4	4	4
Pipe weight in a coil / straight bar [g/m]	120 109	136 128	165 154	222 215	325 325	508 -	742 -	1242 -	1780 -
Pipe weight in a straight bar (coil) including water with 10°C temperature [g/m]	231 (220)	288 (280)	352 (341)	535 (528)	862 (882)	1320 -	2072 -	3285 -	4600 -
Pipe weight in a coil [kg]	21,8	25,6	15,4	10,75	16,3	-	-	-	-
Pipe weight in a straight bar [kg]	0,60	0,68	0,83	1,11	1,63	2,54	3,71	6,21	8,00
Pipe unit volume [dm³/m]	0,113	0,153	0,190	0,314	0,531	0,803	1,320	2,042	2,825
Pipe inner surface smoothness [mm]	0,0004								
Thermal conductivity [W/mK]	0,40								
Thermal expansion coefficient [m/mK]	2,5x10 <sup>-6</sup>								
Minimal manual bending radius [mm]	80 [5xDz]	90 [5xDz]	100 [5xDz]	125 [5xDz]	-	-	-	-	-
Minimal bending radius with bending spring usage [mm]	64 [4xDz]	72 [4xDz]	80 [4xDz]	100 [4xDz]	128 [4xDz]	-	-	-	-
Minimal bending radius with manual pipe bender usage [mm]	60	60	105	105	-	-	-	-	-
Minimal bending radius with machine pipe bender usage [mm]	55	65	75	95	125	150	180	252	-
Max. distance between supports [m]	1,20	1,30	1,30	1,50	1,60	1,70	2,00	2,20	2,40



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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.