

Flexalen® 600 Water

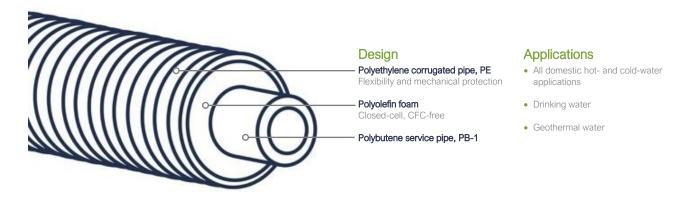
Pre-insulated piping system by Thermaflex®

Extremely flexible and easy to install pre-insulated pipe system for domestic water applications



Benefits

- Fast and easy installation
- Safest choice with homogeneous welding, one material, for increased reliability
- Large network capacity with full compatibility with Flexalen® PU SL with service pipes up to OD315mm
- The only Cradle to Cradle[™] certified pre-insulated pipe system in the world
- Thermaflex service: Support with integrated network design, calculation tools, training and on-site support



Technical Properties

Flexalen® 600 is a pre-insulated flexible plastic pipe system produced conform the European standard EN15632-1,3 and KIWA system certified as well as third-party controlled according BRL-K17401.

PB-1 service pipe (EN-ISO 15876)					
Max. service temperature	95°C				
Continuous service temperature	80°C				
Max. operating pressure	8bar*(95°C)				

^{*}depending on the diameter

V1.1 - 17.05.2019

Thermal Insulation	
Polyolefin foam	
Closed-cell structure, CFC-free	
Water vapor diffusion µ ≥ 3,500	

Flexalen® 600 Heat losses

Heat loss q [W/m] for one Single line							
Flexalen®	Operating temperature T [°C]						
600 Single line	20°C	30°C	40°C	50°C	60°C	70°C	80°C
25 / 90	1.390	2.824	4.302	5.822	7.385	8.990	10.638
32 / 90	1.713	3.479	5.297	7.167	9.088	11.061	13.084
40 / 90	2.168	4.401	6.698	9.058	11.480	13.966	16.513
40 / 125	1.678	3.405	5.181	7.005	8.877	10.796	12.763
50 / 90	2.965	6.014	9.145	12.358	15.651	19.024	22.476
50 / 125	2.072	4.203	6.393	8.641	10.947	13.311	15.732
50 / 160	1.730	3.506	5.327	7.193	9.105	11.060	13.060
63 / 125	2.754	5.583	8.488	11.468	14.521	17.647	20.846
63 / 160	2.109	4.273	6.491	8.764	11.090	13.470	15.904
75 / 125	3.673	7.443	11.307	15.265	19.315	23.458	27.690
75 / 160	2.521	5.106	7.756	10.470	13.248	16.089	18.992
90 / 160	3.204	6.489	9.855	13.299	16.823	20.425	24.104
110 / 200	3.386	6.850	10.393	14.012	17.708	21.479	25.326
125 / 200	4.114	8.323	12.624	17.018	21.503	26.078	30.743

Calculation parameter

\$\lambda_{soil}\$: \$1.00 \text{ W/m-K}\$ R soil surface to ambient air: \$0.0685 \text{ m}^2\text{-K/W}\$ T_{soil}\$: \$10.0 \text{ °C}\$ Soil covering: \$0.8 \text{ m}\$

The heat loss characteristics are in accordance with the European standard for flexible heating pipes systems EN15632. During the expected lifetime of the product these values will increase by 7-10 %.

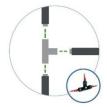
Availability - Domestic Water

Dimension	Service pipe OD x s [mm]	Jacket pipe OD [mm]	
25 / 90	25 x 2.3	90	
32 / 90	32 x 2.9	90	
40 / 90	40 x 3.7	90	
40 / 125	40 x 3.7	125 🛮 🛨 🗓	
50 / 90	50 x 4.6	90	
50 / 125	50 x 4.6	125 +	
50 / 160	50 x 4.6	160 +	
63 / 125	63 x 5.8	125	
63 / 160	63 x 5.8	160 +	
75 / 125	75 x 6.8	125	
75 / 160	75 x 6.8	160	
90 / 160	90 x 8.2	160	
110 / 200	110 x 10.0	200	
125 / 200¹	125 x 11.4	200	
	25 / 90 32 / 90 40 / 90 40 / 125 50 / 90 50 / 125 50 / 160 63 / 125 63 / 160 75 / 125 75 / 160 90 / 160 110 / 200	Dimension OD x s [mm] 25 / 90 25 x 2.3 32 / 90 32 x 2.9 40 / 90 40 x 3.7 40 / 125 40 x 3.7 50 / 90 50 x 4.6 50 / 125 50 x 4.6 63 / 125 63 x 5.8 63 / 160 63 x 5.8 75 / 125 75 x 6.8 90 / 160 90 x 8.2 110 / 200 110 x 10.0	

Double line			
Product code	Dimension	Service pipe OD x s [mm]	Jacket pipe OD [mm]
1120-125000-001	32 + 25 / 125	32 x 2.9 + 25 x 2.3	125
1120-160000-001	40 + 25 / 160	40 x 3.7 + 25 x 2.3	160
1120-160002-001	50 + 32 / 160	50 x 4.6 + 32 x 2.9	160
1121-200005-001	63 + 32 / 200	63 x 5.8 + 32 x 2.9	200

■ ■ higher insulation range with increased delivery time

1 maximum temperature / pressure rating 95°C / 5 bar











- FlexaLink, prefabricated house connections
- All types of homogenous plastic welded Prefabrications
- Full range of weldable PB fittings
- Compression fitting system
- Full range of accessories and tools