

Flexalen® 600 Short Length Package

Pre-insulated piping system by Thermaflex®

All-in-one pre-insulated pipe package for quick and efficient A to B connections



Benefits

- Flexible, pre-insulated plastic pipe system Flexalen® 600 with high pressure rating 95°C/8bar
- The world's only pre-insulated pipe system with *Cradle to Cradle™* certification
- Delivered in cardboard box, convenient for storage and transport
- Fast and easy installation

Set Content

Flexalen® 600 double pipe with oxygen barrier



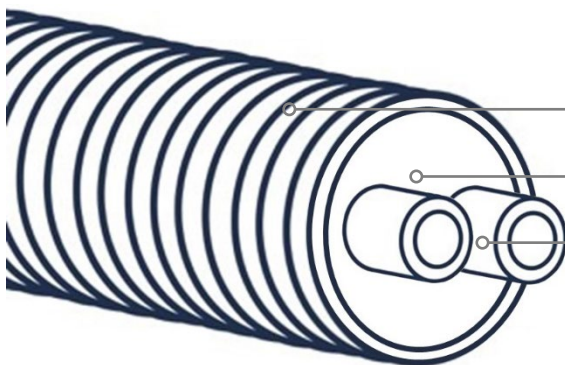
4x compression fitting SDR11 male thread



2x rubber end cap for double pipe



1x trace warning tape, 100m roll



Design Flexalen® 600

Polyethylene corrugated pipe, PE
Flexibility and mechanical protection

Polyolefin foam
Closed-cell, CFC-free

Polybutene service pipe, PB-1
With oxygen barrier

Applications

- Geothermal heat distribution lines
- Connection of adjacent buildings
- Heat pumps
- Pellet plants

Disclaimer

All recommendations and information provided on this data sheet are based on our knowledge and experience. Product specifications are intended as guidelines. Since conditions of service are beyond our control, users must satisfy themselves that products are suitable for the intended use. No guarantee or warranty is given or implied or that any use of the products will not infringe rights belonging to other parties. We reserve the right to change product design and properties without notification.



Technical Properties Flexalen® 600

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 KOMO 5609-2.

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

Thermal Insulation
Polyolefin foam
Closed-cell structure, CFC-free
Water vapor diffusion $\mu \geq 3,500$

Flexalen® 600 Energy losses

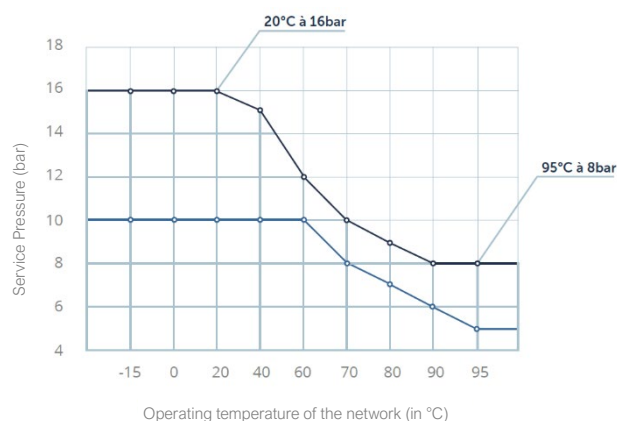
Flexalen® 600 Double line	Average operating temperature T [°C]						
	20°C	30°C	40°C	50°C	60°C	70°C	80°C
25 + 25 / 125	2.41	4.42	6.63	8.84	11.05	13.26	15.47
32 + 32 / 125	3.12	4.16	8.49	11.39	14.15	16.98	19.81
40 + 40 / 160	3.03	5.1	7.65	10.2	12.75	15.3	17.85

Calculation parameter:

λ_{soil} :	1.00 W/m-K
R soil surface to ambient air:	0.0685 m ² -K/W
T _{soil} :	10.0 °C
Soil covering:	0.8 m

The energy 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 %.

Flexalen® 600 Pressure rating



- Up to OD110 20°C/16 bar 95°C/8 bar
- ≥OD125 20°C/10 bar 95°C/5 bar

Availability

Flexalen® 600 double line				Packaging		Product code	
Dimension	Service pipe OD x s [mm]	Jacket pipe OD [mm]	Min. bending radius [m]	Length [m] ¹	Dimensions [cm]	weight [kg]	
25 + 25 / 125	25 x 2.3	125	0.6	8	145 x 145 x 35	21.7	1033-125025-020
				12	145 x 145 x 35	27.4	1033-125025-035
				16	145 x 145 x 50	33.8	1033-125025-040
				20	145 x 145 x 50	39.5	1033-125025-045
32 + 32 / 125	32 x 3.0	125	0.6	8	145 x 145 x 35	23.5	1033-125032-020
				12	145 x 145 x 35	30.0	1033-125032-035
				16	145 x 145 x 50	37.2	1033-125032-040
				20	145 x 145 x 50	43.7	1033-125032-045
40 + 40 / 160	40 x 3.7	160	0.8	8	145 x 145 x 35	32.2	1033-160040-020
				12	145 x 145 x 50	42.1	1033-160040-035
				16	145 x 145 x 50	51.7	1033-160040-040
				20	- ²	43.0	1033-160040-045

¹ Fixed length, other lengths available on request.

² Delivered on coil, without cardboard box.

- Full range of accessories and tools
- Wall entries
- Restraining clamps (recommended)

