

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 only *Cradle to Cradle*[™] certified pre-insulated pipe system in the world
- Delivered in cardboard box, convenient for storage and transport
- Fast and easy installation

Set Content

Flexalen[®] 600 double pipe with oxygen barrier



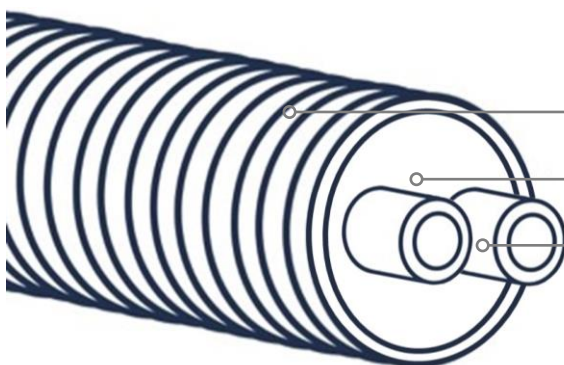
4x compression fitting SDR11 male thread



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

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 Heat losses

Heat loss q [W/m] for one Double line

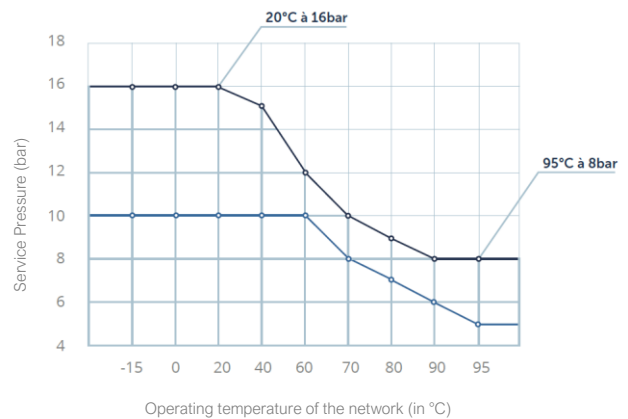
Flexalen® 600 Double line	Average operating temperature T [°C]						
	20°C	30°C	40°C	50°C	60°C	70°C	80°C
25 + 25 / 125	3.0	5.0	7.0	9.0	11.0	13.0	15.0
32 + 32 / 125	3.9	6.4	8.9	11.5	14.0	16.6	19.1
40 + 40 / 160	3.4	5.7	8.0	10.3	12.7	15.0	17.3

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 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 %.

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)

