



FibreFlex[®] Pro

Pre-insulated, flexible pipe system with fiber-reinforced medium pipe for use up to 115°C and 10 bar.

Thanks to the high temperature aramid fiber mesh, the FibreFlex Pro pipe system can be used up to a maximum operating temperature of 115 °C and a pressure of up to 10 bar.

The FibreFlex Pro pipe system thus combines the advantages of a flexible pipe system with the operating properties of KMR steel pipe systems and is therefore an innovative, cost-effective alternative.



1. PE-Xa service pipe
2. Temperature-resistant adhesive layer
3. High temperature fibre mesh
4. Temperature-resistant adhesive layer including oxygen diffusion barrier
5. Service pipe outer layer
6. Flexible Polyurethane-Foam (PUR)
7. Casing

Type	Dimension	Casing	Max. Coil length	Weight/Meter	Bending-radius
UNO/IS1	[mm]	[mm]	[m]	kg	r in m
32/76	32.0x2.9	76	570	1.10	0.70
40/91	40.0x3.7	91	570	1.90	0.90
50/111	47.6x3.6	111	410	2.00	0.90
63/126	58.5x4.0	126	300	2.40	1.00
75/142	69.5x4.6	142	220 (*440)	2.90	1.10
90/162	84.0x6.0	162	150 (*300)	4.00	1.20
110/162	101.0x6.5	162	150 (*300)	4.30	1.20
125/182	116.0x6.8	182	86 (*170)	5.10	1.30
140/202	127.0x7.1	202	80 (*160)	6.30	1.60
160/225	144.0x7.5	225	75 (*150)	7.70	1.60
UNO/IS2	[mm]	[mm]	[m]	kg	r in m
32/91	32,0x2,9	91	570	1.30	0.90
40/111	40,0x3,7	111	410	1.90	0.90
50/126	47,6x3,6	126	300	2.20	1.00
63/142	58,5x4,0	142	220 (*440)	2.70	1.10
75/162	69,5x4,6	162	150 (*300)	3.50	1.20
90/182	84,0x6,0	182	86 (*170)	4.70	1.30
110/182	101,0x6,5	182	86 (*170)	5.00	1.30
125/202	116,0x6,8	202	80 (*160)	6.00	1.40
140/225	127,0x7,1	225	75 (*150)	7.50	1.60
DUO/IS1	[mm]	[mm]	[m]	kg	r in m
32+32/111	2x32,0x2,9	111	410	1.90	0.90
40+40/126	2x40,0x3,7	126	300	2.60	0.90
50+50/162	2x47,6x3,6	162	150 (*300)	3.60	1.20
63+63/182	2x58,5x4,0	182	86 (*170)	4.50	1.30
75+75/202	2x69,5x4,6	202	80 (*160)	5.70	1.40
90+90/225	2x84,0x6,0	225	75 (*150)	7.30	1.60
DUO/IS2	[mm]	[mm]	[m]	kg	r in m
32+32/126	2x32,0x2,9	126	300	2.30	0.90
40+40/142	2x40,0x3,7	142	220 (*440)	2.90	1.00
50+50/182	2x47,6x3,6	182	86 (*170)	4.30	1.30
63+63/202	2x58,5x4,0	202	80 (*160)	5.30	1.40
75+75/225	2x69,5x4,6	225	75 (*150)	6.60	1.60

The specified maximum Coil lengths refer to the standard maxi-coil dimensions of (height x width) 2950x1200 mm. Project Coil lengths are available up to (*) = (height x width) 2950x2400mm.

Technical data:

Max. continuous operating temperature: +95°C (seasonal)

Max. operating temperature: +115°C (variable*)

Thermal conductivity: 0.021 W/mK

Operating pressure: 10 bar

Service pipe: PE-Xa with aramid reinforcement

Thermal insulation: PUR, CFC-free cyclopentane-based

Casing: corrugated PE-LLD

FibreFlex Pro pipe systems are designed for a service life of at least 30 years with the following temperature profile:

***29 years at 90°C + 1 year at 100°C + 100h at 115°C or
Winter heating season 95°C + Summer heating season 85°C**

Further temp./time profiles can be used in accordance with ISO 13760 (Miners rule).

The maximum operating temperature must not exceed 115°C.