

Flexalen U-Values

U-value / thermal transmittance for pre-insulated piping system Flexalen®

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 U-values are in accordance with the European standard for flexible heating pipes systems EN15632 and calculated with λ_{DECL} -values at average service temperature.

Insulation class : according to European standard for Heating systems in Insulations EN 12828

Single line									
Service pipe OD [mm]	Flexalen® 600 Heating			Flexalen® PU			Flexalen® PU SL		
	Casing pipe OD [mm]	U-value [W/mK]	Insulation Class	Casing pipe OD [mm]	U-value [W/mK]	Insulation Class	Casing pipe OD [mm]	U-value [W/mK]	Insulation Class
25	90	0.148		91	0.098	6			
32	90	0.182		91	0.120	6			
40	90	0.230							
	111			111	0.123	6	110	0.125	6
50	125	0.178							
	125	0.219		126	0.135	6	125	0.137	6
63	160	0.182							
	125	0.290							
75	142			142	0.152	6	140	0.158	6
	160	0.222					160	0.136	6
90	160	0.265		162	0.159	6	160	0.165	6
							180	0.144	6
110	160	0.336							
				182	0.174	6	180	0.179	6
125							200	0.156	6
	200	0.354		202	0.199	6	200	0.205	6
140							250	0.153	6
	200	0.430							
160				225	0.205	6			
							250	0.180	6
225							280	0.180	6
315							315	0.186	6
							400	0.217	6
							450	0.336	6

The U-values are for one single pipe.

Disclaimer

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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.



Double line						
Service pipe OD [mm]	Flexalen 600 Heating		Flexalen PU		Flexalen® PU SL	
	Casing pipe OD [mm]	U-value [W/mK]	Casing pipe OD [mm]	U-value [W/mK]	Casing pipe OD [mm]	U-value [W/mK]
25+25					110	0.165
			111	0.138		
	125	0.221				
32+32					160	0.110
	125	0.283	126	0.153	125	0.182
	160	0.208				
40+40					180	0.119
			142	0.172	140	0.205
	160	0.255				
50+50					200	0.128
	160	0.338				
			182	0.162	180	0.187
63+63					200	0.160
	200	0.363	202	0.191	200	0.222
					250	0.157
75+75						
			225	0.211		
					250	0.200
90+90					280	0.168
					280	0.229
					315	0.188