

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	5	90	0.103	6			
32	90	0.182	4	90	0.126	6			
40	90	0.230	3						
	110			110	0.128	6	110	0.167	5
50	125	0.178	5						
	125	0.219	4	125	0.141	6	125	0.182	5
63	160	0.182	5						
	125	0.290	3						
75	140	0.161	6	140	0.161	6	140	0.206	5
	160	0.222	4				160	0.179	5
90	160	0.265	4	160	0.168	6	160	0.216	5
	180						180	0.189	5
110	160	0.336	3						
	180			180	0.183	6	180	0.233	5
	200						200	0.206	5
125	200	0.354	3	200	0.209	6	200	0.266	4
	250						250	0.201	6
140	200	0.430	3				200	0.327	4
	225			225	0.212	6			
160							250	0.235	5
							225	0.326	4
225							280	0.235	5
							250	0.344	4
315							315	0.240	6
							315	0.437	4
							400	0.280	6
							450	0.422	5

The U-values are for one single pipe.

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.



Double 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+25							110	0.219	6
				111	0.144	6			
	125	0.221	6						
32+32							160	0.147	6
	125	0.283	6	125	0.161	6	125	0.241	6
	160	0.208	6						
40+40							180	0.158	6
				140	0.183	6	140	0.27	6
	160	0.255	6						
50+50							200	0.171	6
	160	0.338	5						
63+63									
				180	0.172	6	180	0.244	6
	200	0.363	5				200	0.212	6
75+75				200	0.203	6	200	0.289	6
							250	0.208	6
90+90									
				225	0.220	6	250	0.259	6
							280	0.220	6
90+90							280	0.283	6
							315	0.236	6