



DoP

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## DECLARATION OF PERFORMANCE

Manufacturer : Uponor GmbH  
Product family : Ecoflex Thermo Twin  
Product parameters : U-Values  
Analysing organization : Stressfield Oy

### Product and parameters:

Identification of the product type	Uponor Ecoflex Thermo Twin 2xPN 6 (SDR 11)
Sizes	2x25/175, 2x32/175, 2x40/175, 2x50/200, 2x63/200, 2x75/250
Assesment of performance	Numerical simulation with ANSYS Fluent 2021 R1 solver.
Applied parameters	Product material thermal conductivities at 50 °C. Heat losses, including soil to ambient thermal transmittance, according to EN 15632-1 Appendix B.

### Declared performance:

Ecoflex Thermo Twin	U-Value <sup>1)</sup> [W/mK]	Heat loss <sup>2)</sup> [W/m] for corresponding $\Delta\vartheta$ [K] <sup>3)</sup>						
		20	30	40	50	60	70	80
2x25/175	0.194	3.87	5.81	7.74	9.68	11.61	13.55	15.48
2x32/175	0.230	4.59	6.89	9.18	11.48	13.77	16.07	18.36
2x40/175	0.286	5.71	8.57	11.43	14.28	17.14	20.00	22.86
2x50/200	0.303	6.07	9.10	12.14	15.17	18.21	21.24	24.28
2x63/200	0.426	8.52	12.78	17.03	21.29	25.55	29.81	34.07
2x75/250	0.414	8.28	12.42	16.56	20.71	24.85	28.99	33.13

<sup>1)</sup> See 'Applied parameters' above.

<sup>2)</sup> According to EN 15632-1 Appendix B

<sup>3)</sup> Calculation example for  $\Delta\vartheta$ :

Flow pipe at 70 °C, return pipe at 40 °C, ambient at 5 °C  $\rightarrow \Delta\vartheta = (70\text{ °C} + 40\text{ °C})/2 - 5\text{ °C} = 50\text{ °C}$

Signed on behalf of the Analysing organization by Date

11.4.2022

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