



DoP

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## DECLARATION OF PERFORMANCE

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

### Product and parameters:

Identification of the product type	Uponor Ecoflex VIP Thermo Twin 2xPN 6 (SDR 11)
Sizes	2x25/140, 2x32/140, 2x40/175, 2x50/175, 2x63/200, 2x75/250.
Assesment of performance Applied parameters	Numerical simulation with ANSYS Fluent 2021 R1 solver. PEX-foam thermal conductivity at local temperature. Other material thermal conductivities at 50 °C. Heat losses, including soil to ambient thermal transmittance, according to EN 15632-1 Appendix B.

### Declared performance:

Ecoflex VIP 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
2x25/140	0.122	2.44	3.66	4.88	6.10	7.32	8.54	9.77
2x32/140	0.145	2.90	4.36	5.81	7.26	8.71	10.16	11.62
2x40/175	0.153	3.07	4.60	6.13	7.66	9.20	10.73	12.26
2x50/175	0.185	3.70	5.55	7.40	9.25	11.10	12.95	14.80
2x63/200	0.212	4.23	6.35	8.47	10.59	12.70	14.82	16.94
2x75/250	0.222	4.45	6.67	8.89	11.12	13.34	15.56	17.78

<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

Vesa Tanskanen, D.Sc. (tech)

Stressfield Oy  
Laserkatu 6  
53810 Lappeenranta

Vesa Tanskanen  
E-mail: vesa.tanskanen@stressfield.fi  
Tel: +358 40 026 4935