



DoP

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DECLARATION OF PERFORMANCE

Manufacturer : Uponor GmbH
Product family : Ecoflex Thermo Twin HP 2xPN 6
Product parameters : U-Values
Analysing organization : Stressfield Oy

Product and parameters:

Identification of the product type	Uponor Ecoflex Thermo Twin HP 2xPN 6 (SDR 11)
Sizes	2x32/140, 2x40/175.
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 HP PN6	U-Value ¹⁾ [W/mK]	Heat loss ²⁾ [W/m] for corresponding $\Delta\vartheta$ [K] ³⁾						
		20	30	40	50	60	70	80
2x32/140	0.347	6.93	10.40	13.87	17.33	20.80	24.27	27.73
2x40/175	0.376	7.52	11.27	15.03	18.79	22.55	26.31	30.06

¹⁾ See 'Applied parameters' above.

²⁾ According to EN 15632-1 Appendix B

³⁾ 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)