

THERMAL TRANSMITTANCE CALCULATION

Calculation num.: 173.1/12

PRODUCT STANDARD: EN 14351-1 + A1

CALCULATION STANDARD: EN 1077-2:2012

SOFTWARE: WinIso 2D

VALIDITY: The data and results refer solely to the described specimen or to the specimen of bigger dimension but with the same frame and glazing details.

WINDOW TYPE	Nature Lumnia	
PRODUCT	Single sash window and balcony doors	
	Frame material	Wood - Spruce (Picea abies) ($\lambda = 0,11 \text{ W/mK}$)
	Thermal transmittance of frame	$U_f = 0,98 \text{ W/m}^2\text{K}$; $b = 92 \text{ mm}$ $U_{fb} = 1,1 \text{ W/m}^2\text{K}$ $b_b = 104 \text{ mm}$
	Thermal transmittance of glazing	$U_g = 0,7 \text{ W/m}^2\text{K}$ 8/12Ar/8/12Ar/8 (TGI Spacer M)
	Linear thermal transmittance of frame/glazing junction	$\Psi = 0,051 \text{ W/mK}$
	Window dimension (w x h)	1230 mm x 1480 mm

 M SORA	$U_w = 0,91 \text{ W/m}^2\text{K}$
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Žiri, 17.09.2025

Calculation made by:
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M SORA
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