

U-VALUE TABLE

WW20

Basis for calculation according to product norm EN 14351-1

in compliance with EN 673, EN ISO 10077-1, 10077-2

$$U_w = \frac{\sum (A_g \times U_g) + \sum (A_f \times U_f) + \sum (l_g \times \psi_g) + \sum (A_p \times U_p)}{\sum (A_g + A_f + A_p)}$$

... **Ag,p** (area "glazing", "panel")

... **Uf-Value** Frame ("frame")

... **Ug-Value** Glass ("glazing")

... **ψ-Value** of glass spacer *



Norm dimensions according to CE: 1.230 mm x 1.480 mm

Frame Depth: **IV90**

TYPE OF WOOD	THERMAL CONDUCTIVITY	Uf-VALUE	Ug - VALUE					Uw-VALUE
			1,10	1,00	0,70	0,60	0,50	
Spruce; Fir	λ = 0,11, 430 kg/m ²	0,95	1,13	1,06	0,86	0,79	0,72	
Pine	λ = 0,13, 520 kg/m ²	1,10	1,18	1,11	0,91	0,84	0,77	
Larch	λ = 0,13, 540 kg/m ²	1,10	1,18	1,11	0,91	0,84	0,77	
Oak	λ = 0,18, 700 kg/m ²	1,60	1,34	1,27	1,07	1,00	0,93	
insulated frame (Passivhaus certified)		0,64	-	-	0,75	0,71	0,63	

Please note: the Uw-value (thermal transmittance value) is based on the parameters above Ag,p / Uf / Ug / ψ-value. Depending on their values the total Uw-value can be subject to change.

* here: Swisspacer Ultimate [W/(mK)] 0,032