FT -VILSTAL GMBH
WINDOWS + FAÇADES IN WOOD/WOOD-ALU

U-VALUE TABLE

AC20 CS

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: **IV78**

TYPE OF WOOD	THERMAL CONDUCTIVITY	Uf-VALUE	Ug - VALUE					
			1,10	**1,00**	**0,70**	**0,60**	**0,50**	
Spruce, Fir	λ = 0,11, 430 kg/m²	1,00	1,15	1,08	0,88	0,81	0,74	Uw-VALUE
Pine	λ = 0,13, 520 kg/m²	1,20	1,21	1,15	0,94	0,88	0,81	
Larch	λ = 0,13, 540 kg/m²	1,10	1,18	1,11	0,91	0,84	0,78	
Oak	λ = 0,18, 700 kg/m²	1,70	1,38	1,31	1,11	1,04	0,98	
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*

Status: October 2021