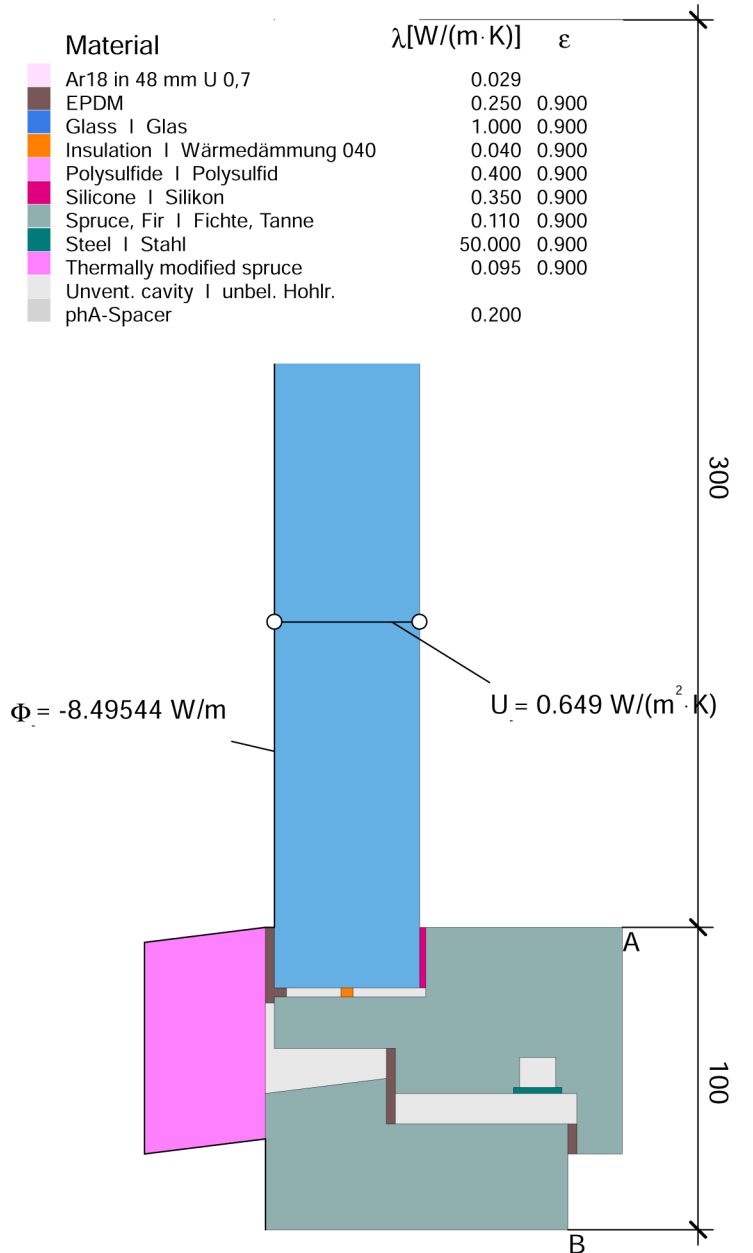


U-Wert Fensterrahmen (U_f) Berechnung nach EN ISO 10077-2
 U-value window frame (U_f) calculation according to EN ISO 10077-2

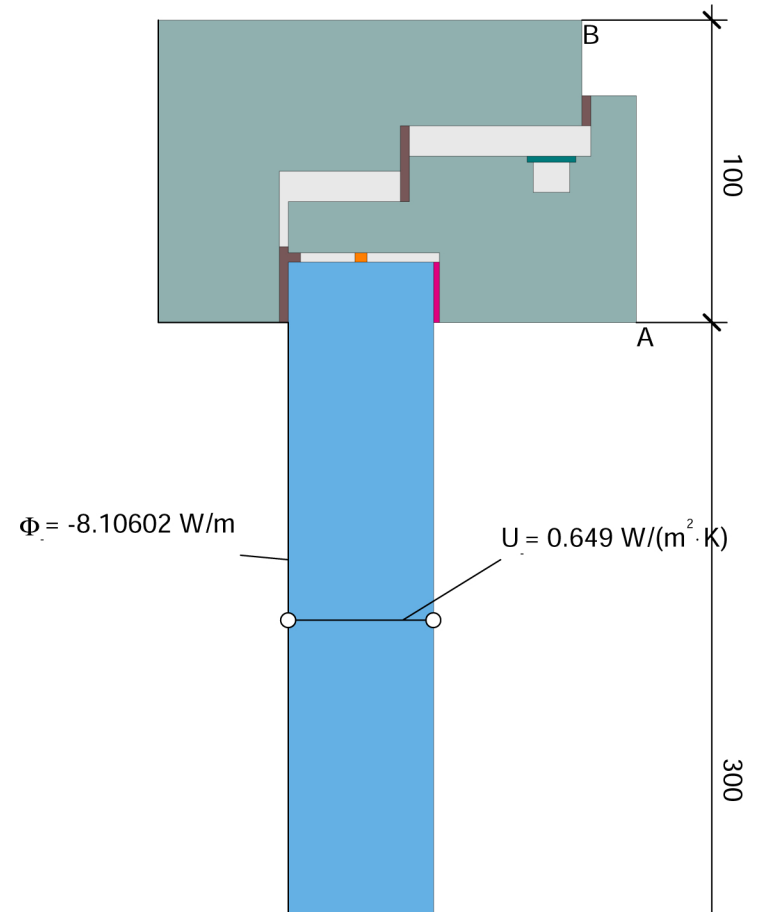


Material	λ[W/(m·K)]	ε
Ar18 in 48 mm U 0,7	0.029	
EPDM	0.250	0.900
Glass Glas	1.000	0.900
Insulation Wärmedämmung 040	0.040	0.900
Polysulfide Polysulfid	0.400	0.900
Silicone Silikon	0.350	0.900
Spruce, Fir Fichte, Tanne	0.110	0.900
Steel Stahl	50.000	0.900
Thermally modified spruce	0.095	0.900
Unvent. cavity unbel. Hohlr.		
phA-Spacer	0.200	



$$U_{f,A,B} = \frac{\Phi}{\Delta T} - \frac{U_p \cdot b_p}{b_f} = \frac{8.495}{30.000} - \frac{0.649 \cdot 0.300}{0.100} = 0.886 \text{ W/(m}^2 \cdot \text{K)}$$

bo - BOTTOM | UNTEN



Material	λ[W/(m·K)]	ε
Ar18 in 48 mm U 0,7	0.029	
EPDM	0.250	0.900
Glass Glas	1.000	0.900
Insulation Wärmedämmung 040	0.040	0.900
Polysulfide Polysulfid	0.400	0.900
Silicone Silikon	0.350	0.900
Spruce, Fir Fichte, Tanne	0.110	0.900
Steel Stahl	50.000	0.900
Unvent. cavity unbel. Hohlr.		
phA-Spacer	0.200	

$$U_{f,A,B} = \frac{\Phi}{\Delta T} - \frac{U_p \cdot b_p}{b_f} = \frac{8.106}{30.000} - \frac{0.649 \cdot 0.300}{0.100} = 0.756 \text{ W/(m}^2 \cdot \text{K)}$$

TOP/SIDE | OBEN/SEITL.