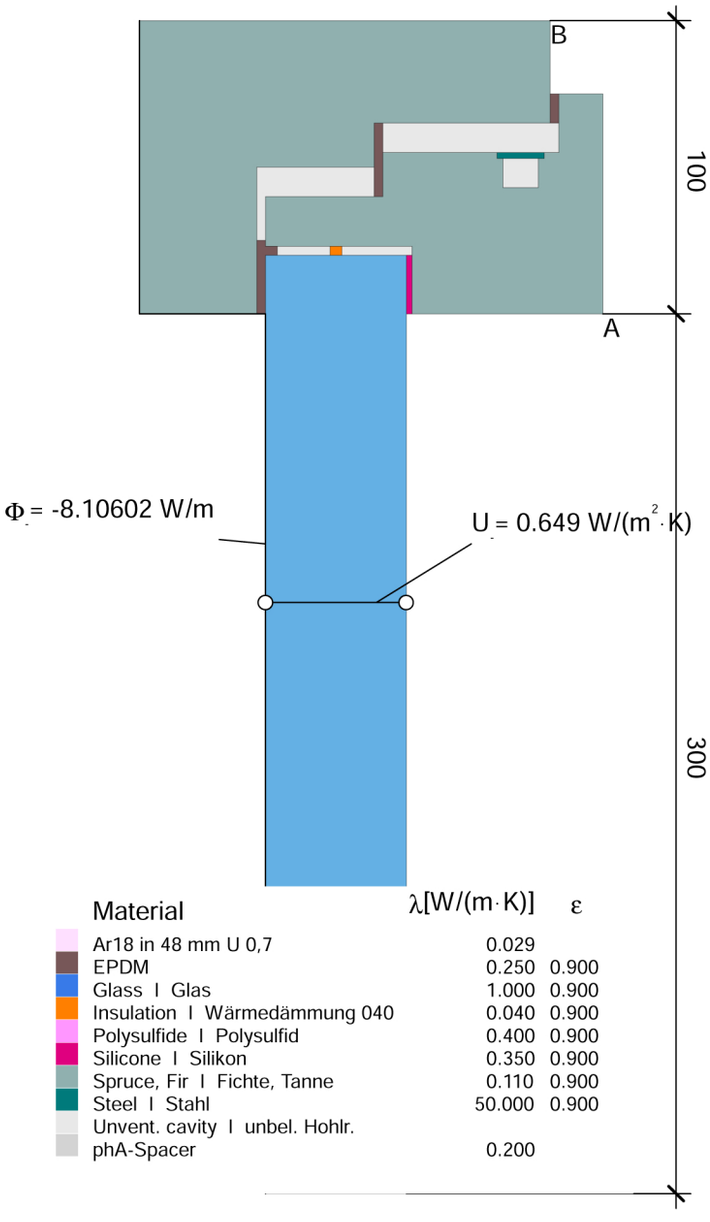
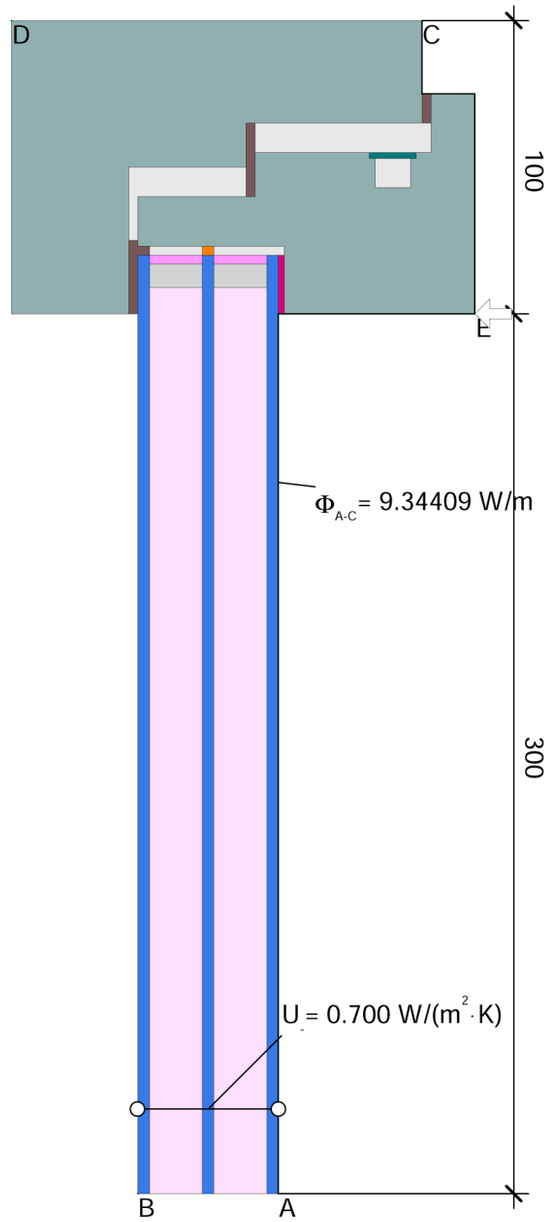
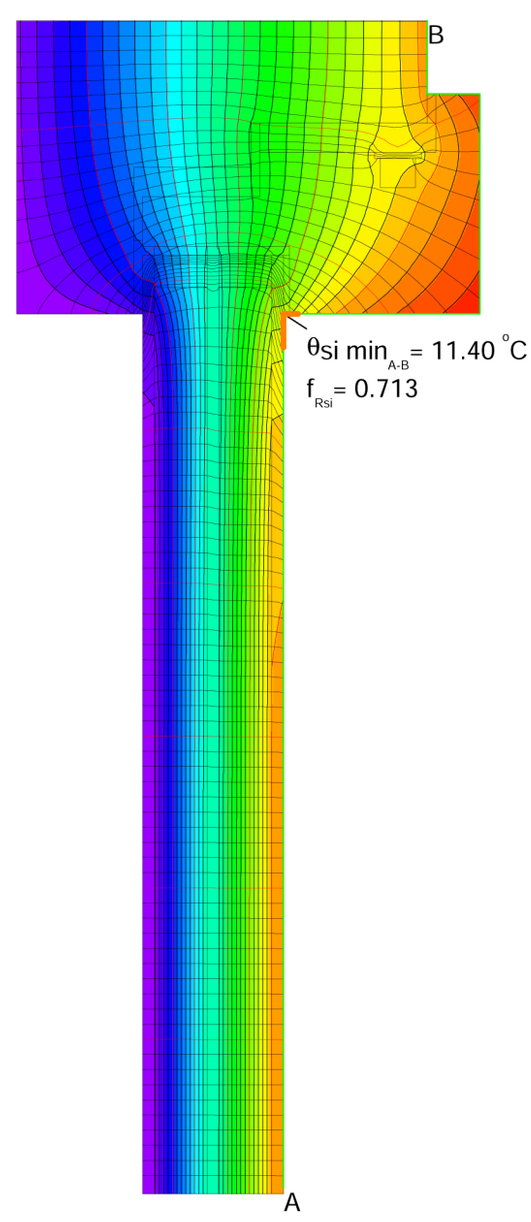
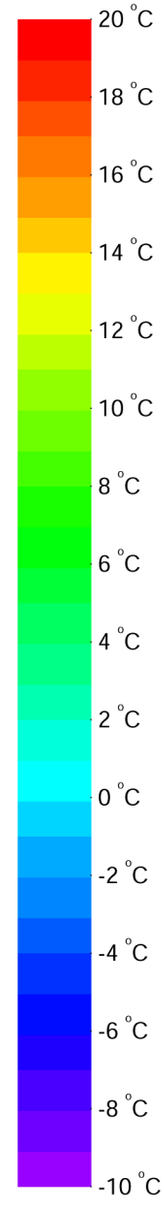
Passive House Institute



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







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

$$\psi_{A\text{-}E\text{-}C,\,*} = \frac{\Phi}{\Delta T} - U_1 \cdot b_1 - U_2 \cdot b_2 = \frac{9.344}{30.000} - 0.700 \cdot 0.300 - 0.756 \cdot 0.100 = 0.026\ \text{W/(m·K)}$$

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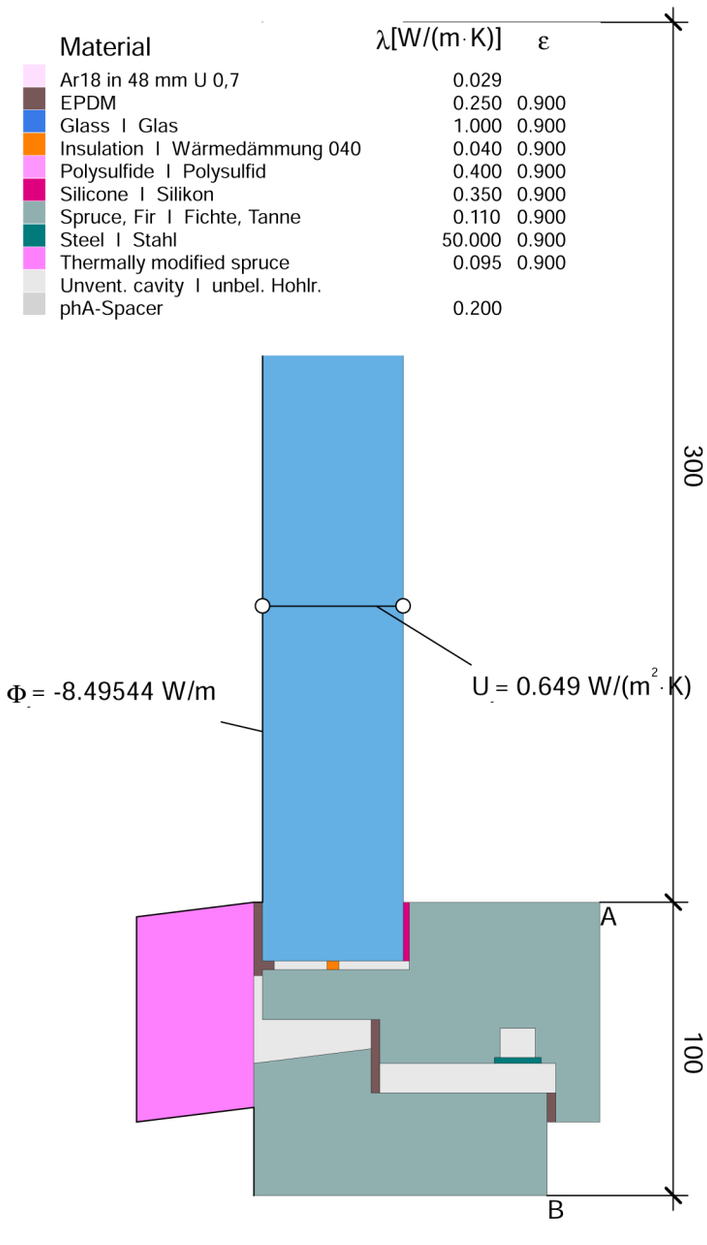
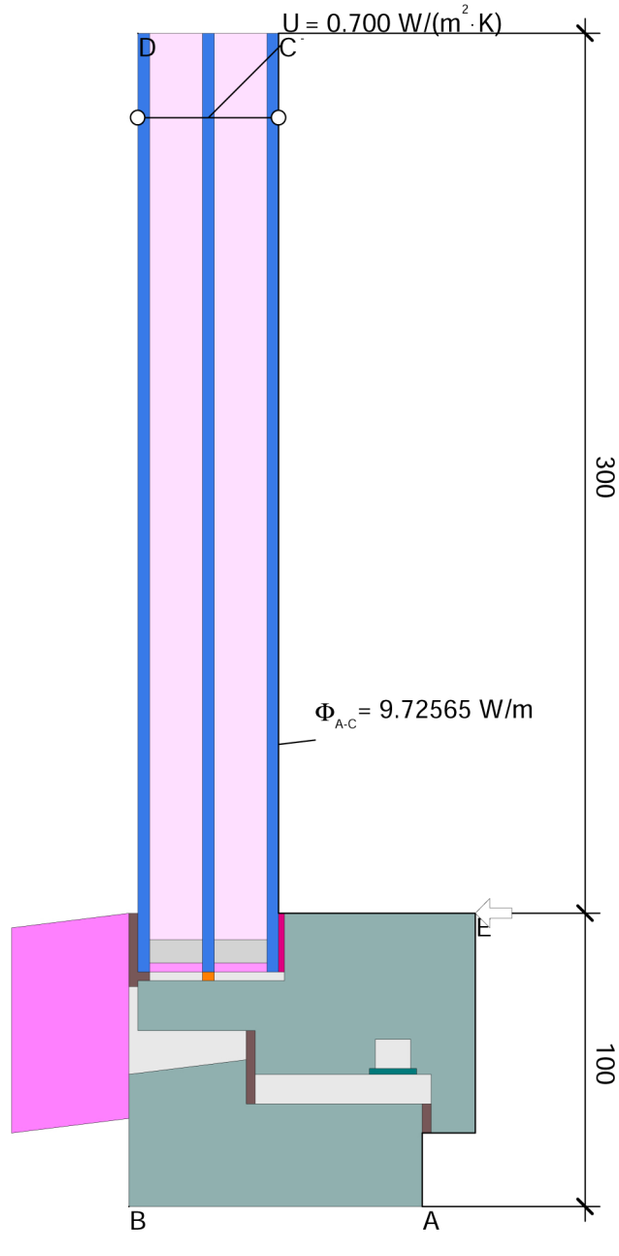
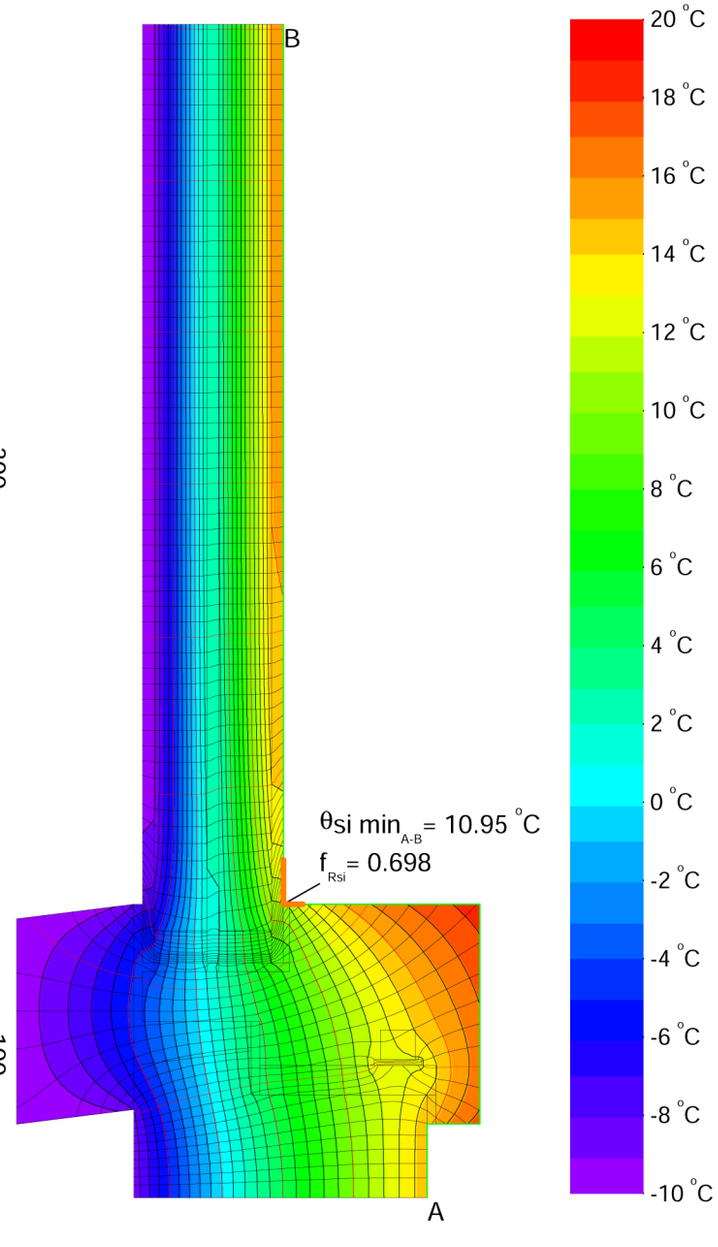
Material	λ[W/(m·K)]	ε
Ar18 in 48 mm U 0,7	0.029	
EPDM	0.250	0.900
Glass I Glas	1.000	0.900
Insulation I Wärmedämmung 040	0.040	0.900
Polysulfide I Polysulfid	0.400	0.900
Silicone I Silikon	0.350	0.900
Spruce, Fir I Fichte, Tanne	0.110	0.900
Steel I Stahl	50.000	0.900
Thermally modified spruce	0.095	0.900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







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

$$\psi_{A\text{-}E\text{-}C,\,*} = \frac{\Phi}{\Delta T} - U_1 \cdot b_1 - U_2 \cdot b_2 = \frac{9.726}{30.000} - 0.886 \cdot 0.100 - 0.700 \cdot 0.300 = 0.026\ \mathrm{W/(m \cdot K)}$$