EN ISO 10077-2:2003

Samples

Standard					*flixo*						
Name	Standard	min	max	Uf/Psi	Name	Q	L	bf	Up/Ug	Uf/Psi	Rel. Conductance Diff.
D.1	0.550	**0.534**	**0.567**	3.220	EN_IS0_10077-2_D1_EN	11.124	**0.556**	0.1100	1.0310	3.276	**1.1%**
D.2	0.263	**0.255**	**0.271**	1.440	EN_IS0_10077-2_D2_EN	5.222	**0.261**	0.1100	0.5470	1.429	**-0.7%**
D.3	0.424	**0.411**	**0.437**	2.070	EN_IS0_10077-2_D3_EN	8.235	**0.412**	0.1100	1.0310	1.962	**-2.9%**
D.4	0.346	**0.336**	**0.356**	1.360	EN_IS0_10077-2_D4_EN	6.850	**0.343**	0.1100	1.0310	1.333	**-1.0%**
D.5	0.408	**0.396**	**0.420**	2.080	EN_IS0_10077-2_D5_EN	7.947	**0.397**	0.0890	1.1690	1.969	**-2.6%**
D.6	0.659	**0.639**	**0.679**	4.670	EN_IS0_10077-2_D6_EN	13.277	**0.664**	0.0950	1.1310	4.726	**0.7%**
D.7	0.285	**0.276**	**0.294**	1.310	EN_IS0_10077-2_D7_EN	5.634	**0.282**	0.0480	1.1690	1.241	**-1.2%**
D.8	0.181	**0.176**	**0.186**	1.030	EN_IS0_10077-2_D8_EN	3.549	**0.177**	0.1770		1.003	**-2.0%**
D.9	0.207	**0.201**	**0.213**	3.640	EN_IS0_10077-2_D9_EN	4.124	**0.206**	0.0570		3.618	**-0.4%**
D.10	0.481	**0.467**	**0.495**	0.084	EN_IS0_10077-2_D10_EN	9.574	**0.479**	0.1100	1.3053	0.084	**-0.5%**

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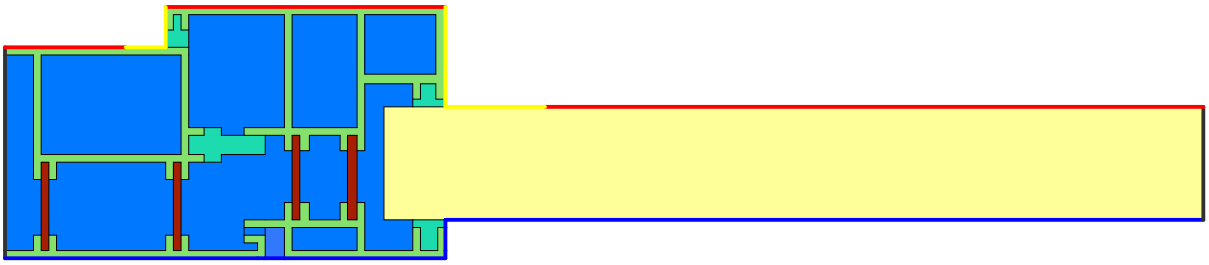

Name	λ[W/(m·K)]
Aluminium (Si alloys)	160.000
EPDM (ethylene propylene diene monomer)	0.250
Panel	0.035
Polyamid 6.6 with 25% glassfibre	0.300
Slightly ventilated air cavity, Eps=0.9	
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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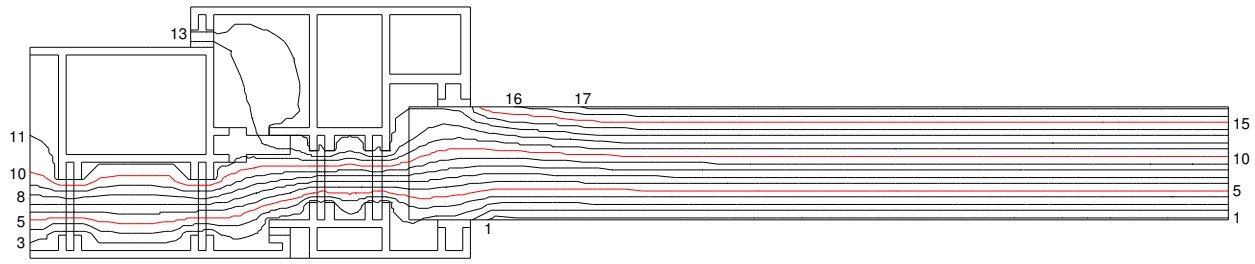

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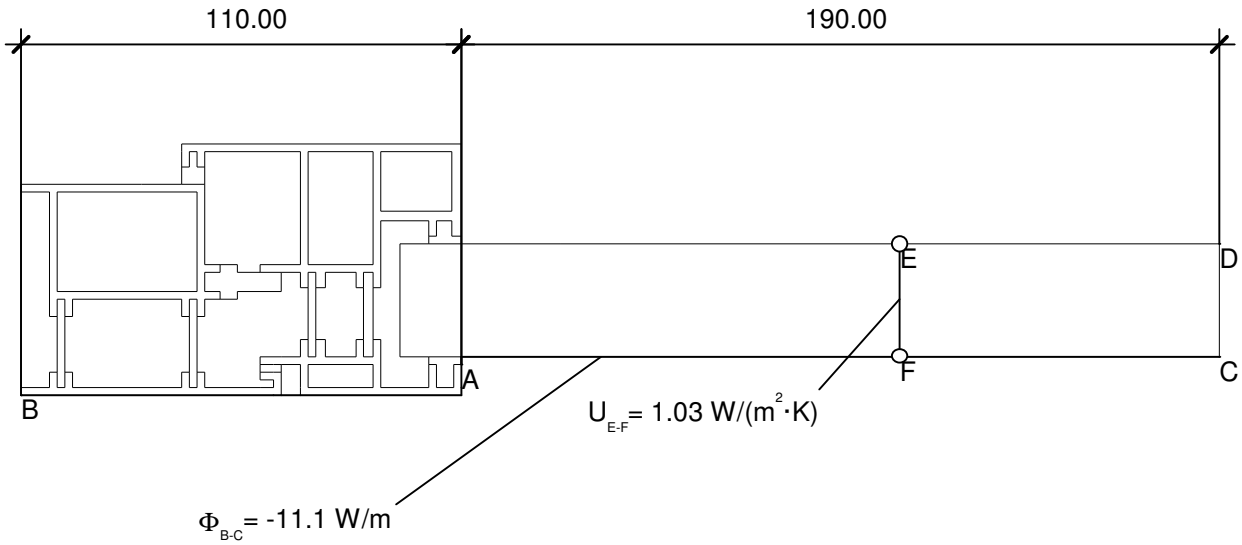

$$U_{fA} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-11.124}{-20.000} - 1.031 \cdot 0.190}{0.110} = 3.28 \text{ W/(m}^2\text{·K)}$$

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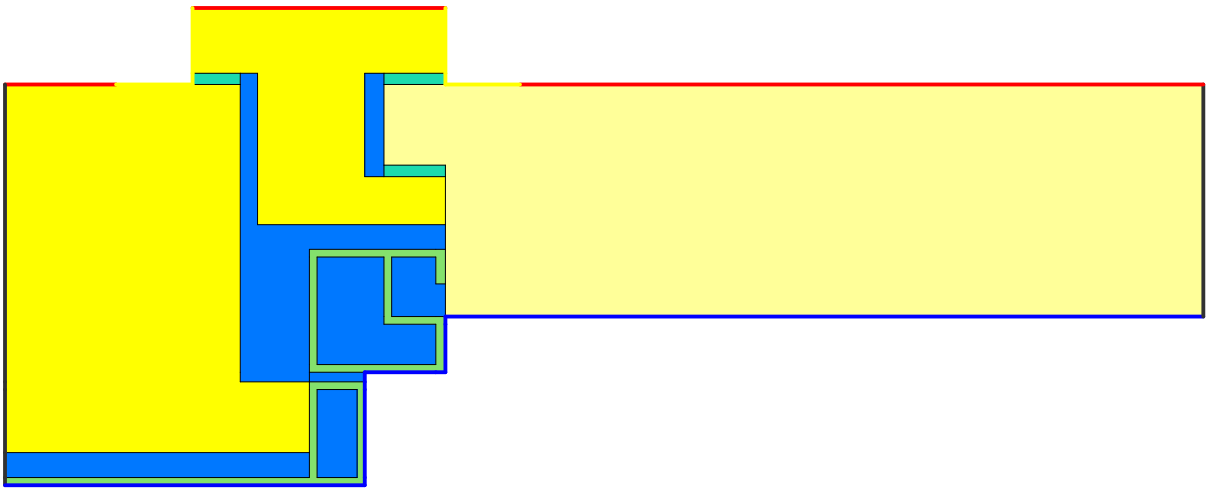

Name	λ[W/(m·K)]
Aluminium (Si alloys)	160.000
EPDM (ethylene propylene diene monomer)	0.250
Panel	0.035
Softwood (typical construction timber)	0.130
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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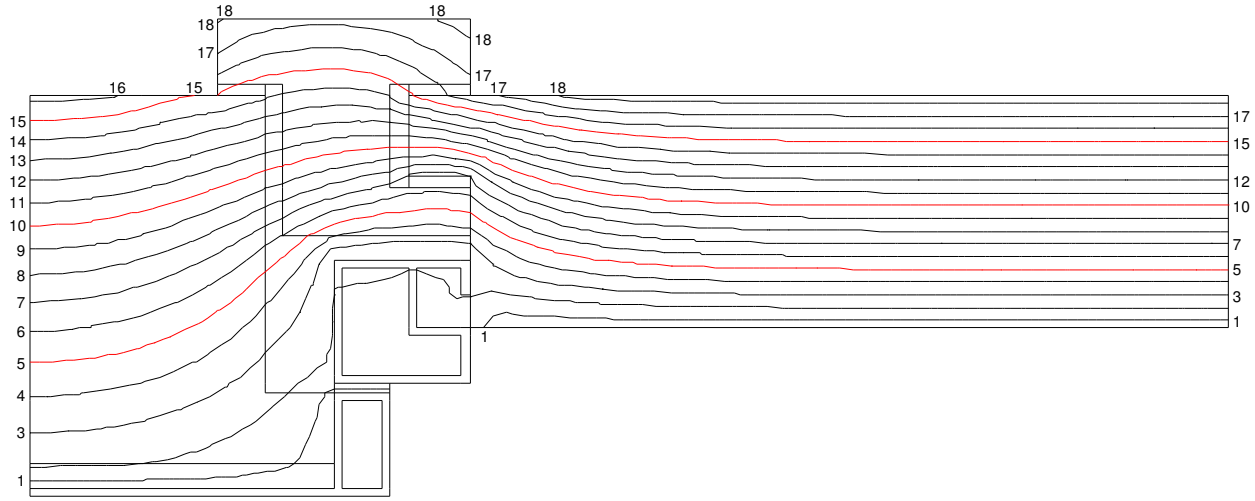

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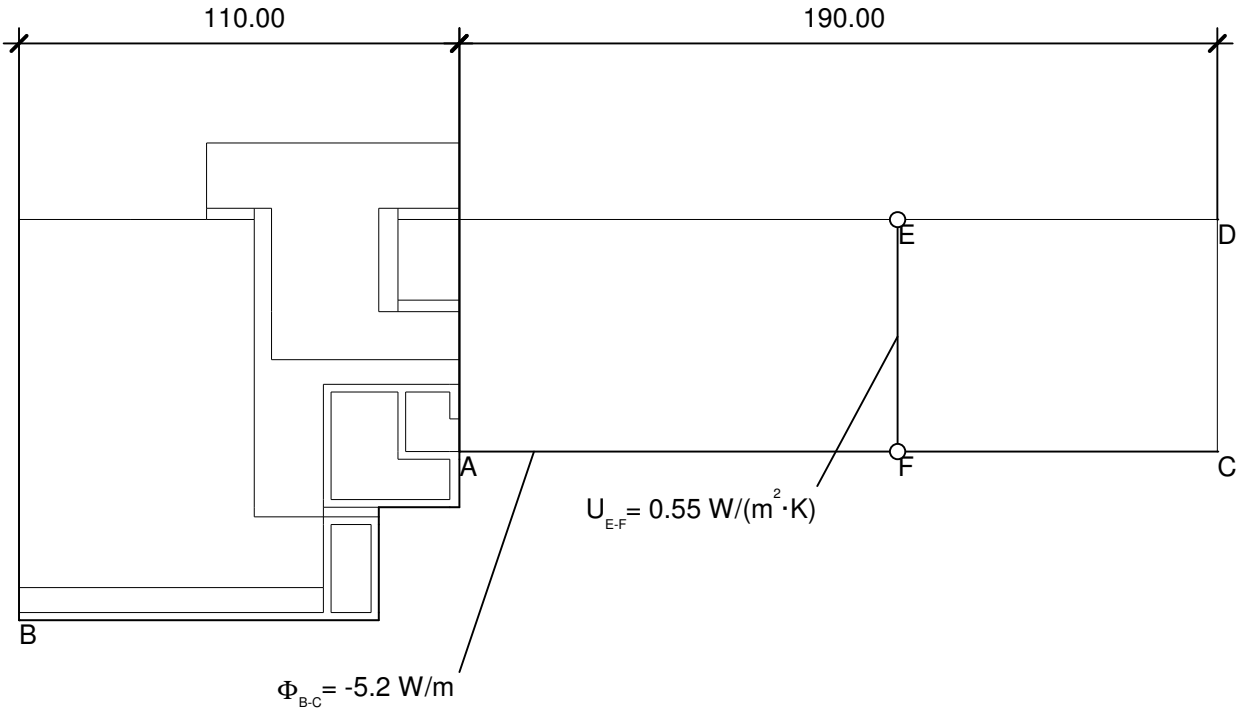

$$U_{fA} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-5.222}{-20.000} - 0.547 \cdot 0.190}{0.110} = 1.43 \text{ W/(m}^2\text{·K)}$$

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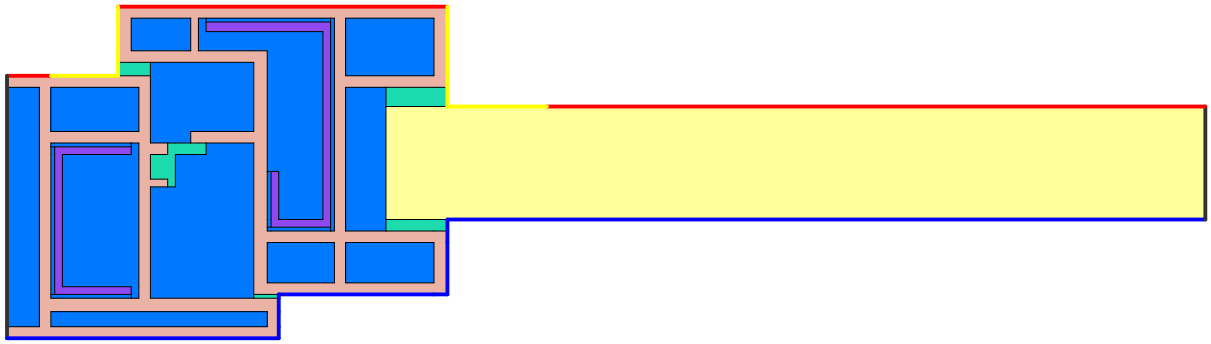

Name	λ[W/(m·K)]
EPDM (ethylene propylene diene monomer)	0.250
PVC (polyvinylchloride), rigid	0.170
Panel	0.035
Steel	50.000
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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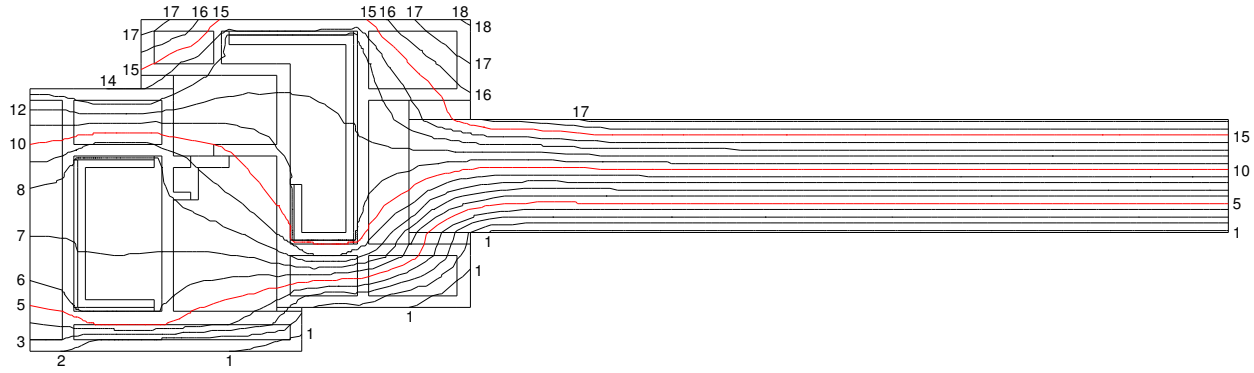

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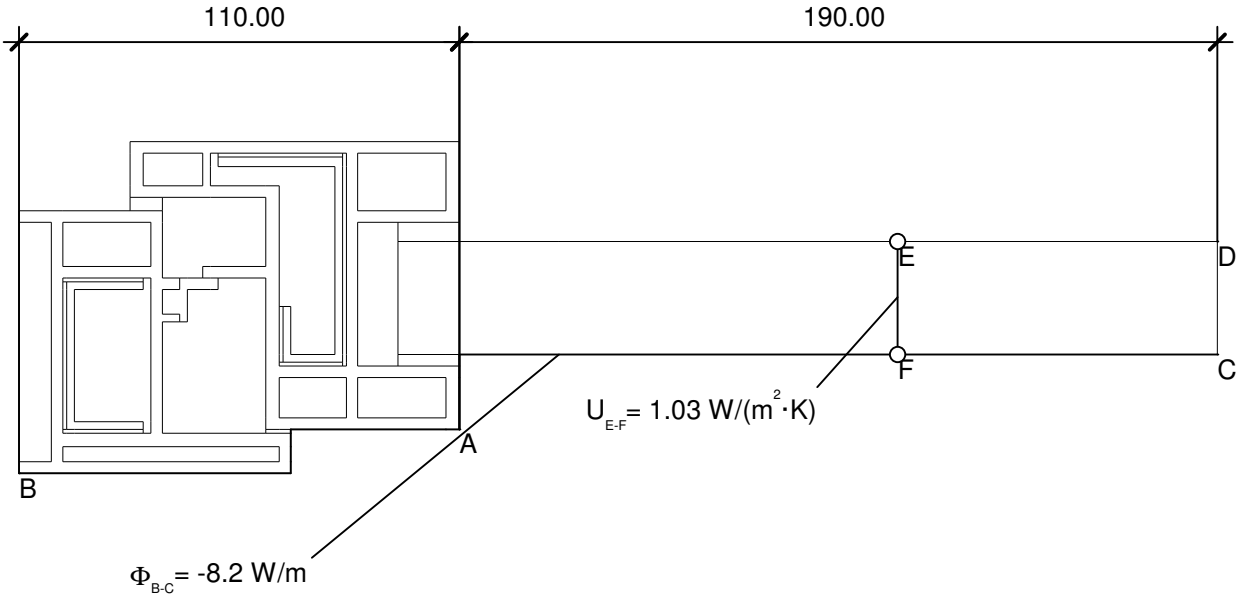

$$U_{f\,A} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-8.235}{-20.000} - 1.031 \cdot 0.190}{0.110} = 1.96\ \mathrm{W/(m^2 \cdot K)}$$

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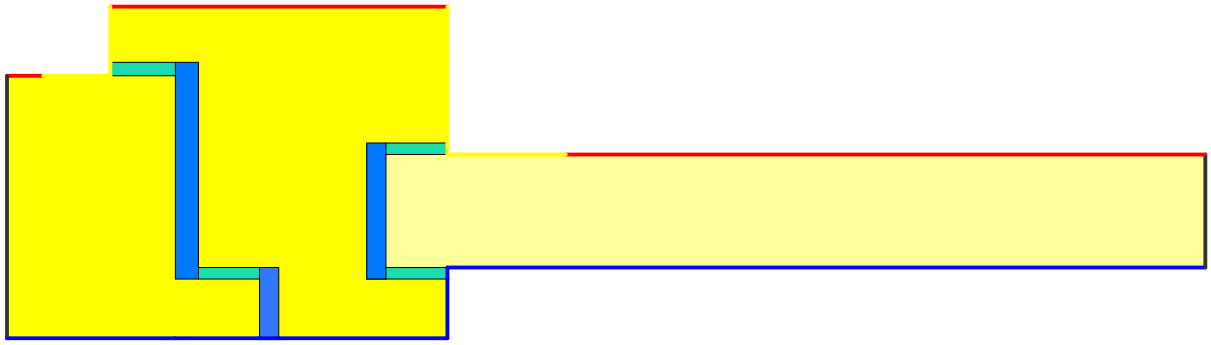

Name	λ[W/(m·K)]
Belüftete Hohlräume, Eps=0.9	
EPDM (Ethylen Propylen Dien Monomer)	0.250
Maske	0.035
Unbelüftete Hohlräume, Eps=0.9	
Weich-Holz (typisches Bauholz)	0.130

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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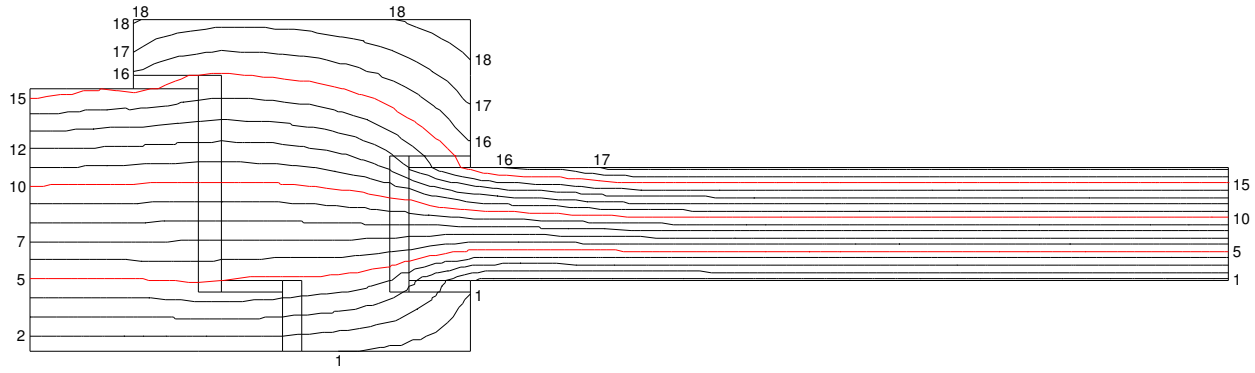

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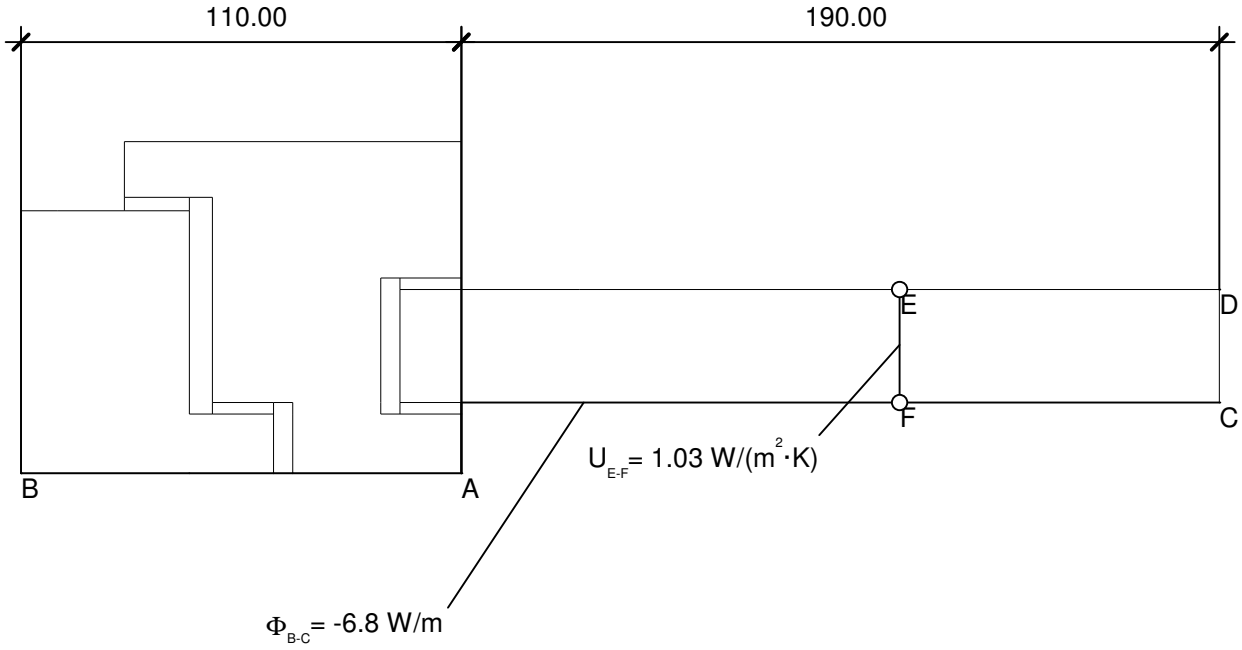

$$U_{fA} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-6.850}{-20.000} - 1.031 \cdot 0.190}{0.110} = 1.33 \text{ W/(m}^2\text{·K)}$$

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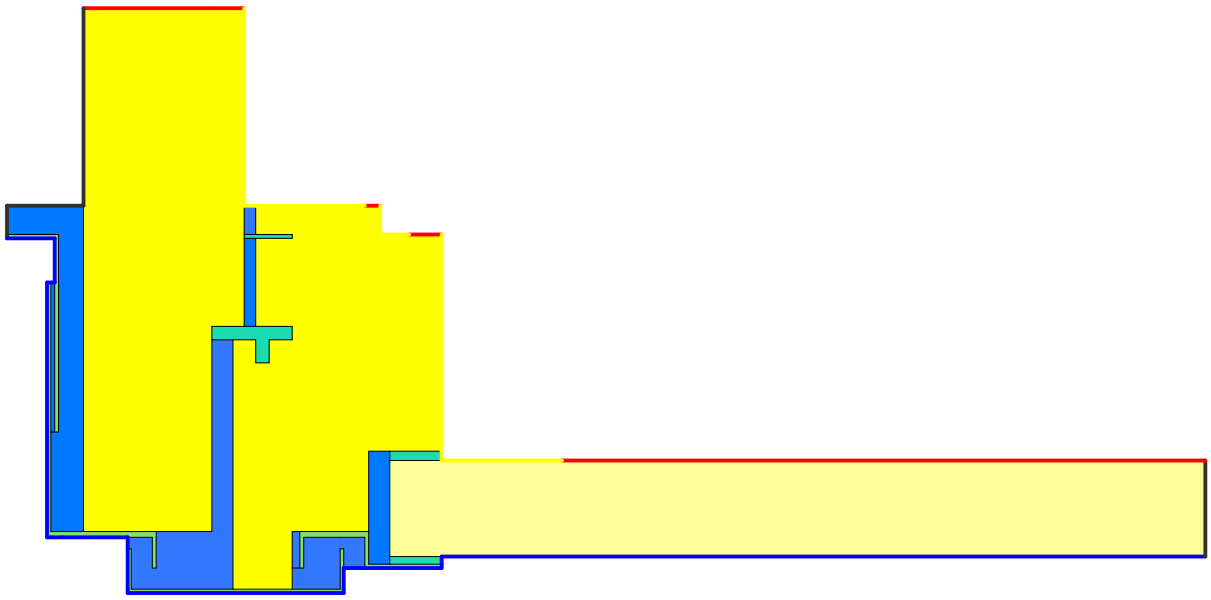

Name	λ[W/(m·K)]
Aluminium (Si alloys)	160.000
EPDM (ethylene propylene diene monomer)	0.250
Panel	0.035
Slightly ventilated air cavity, Eps=0.9	
Softwood (typical construction timber)	0.130
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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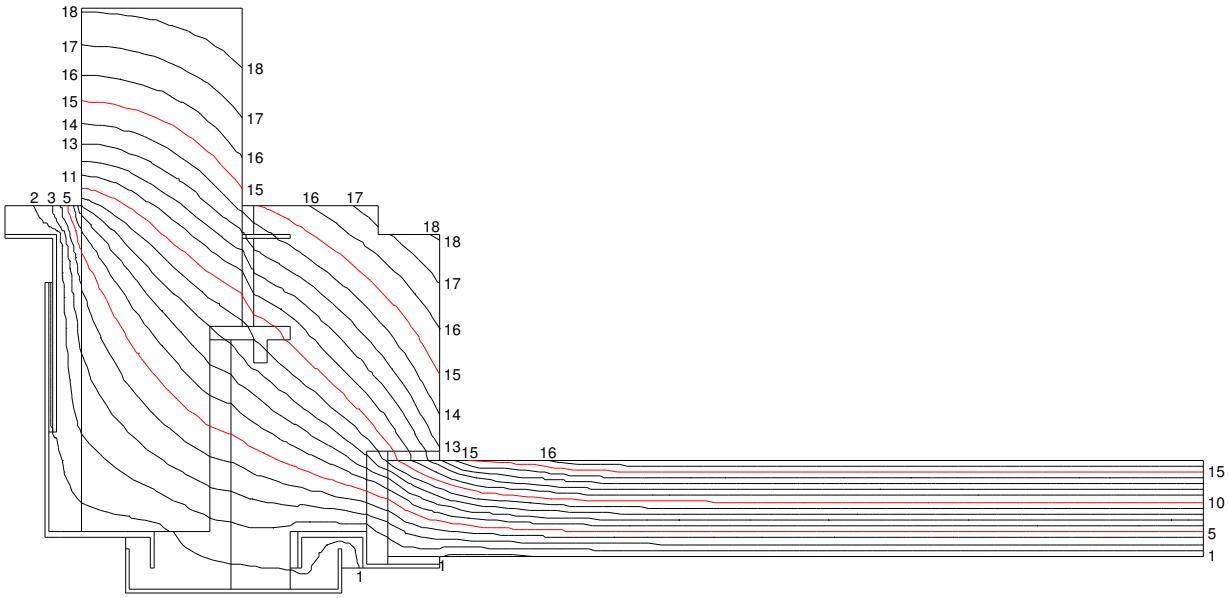

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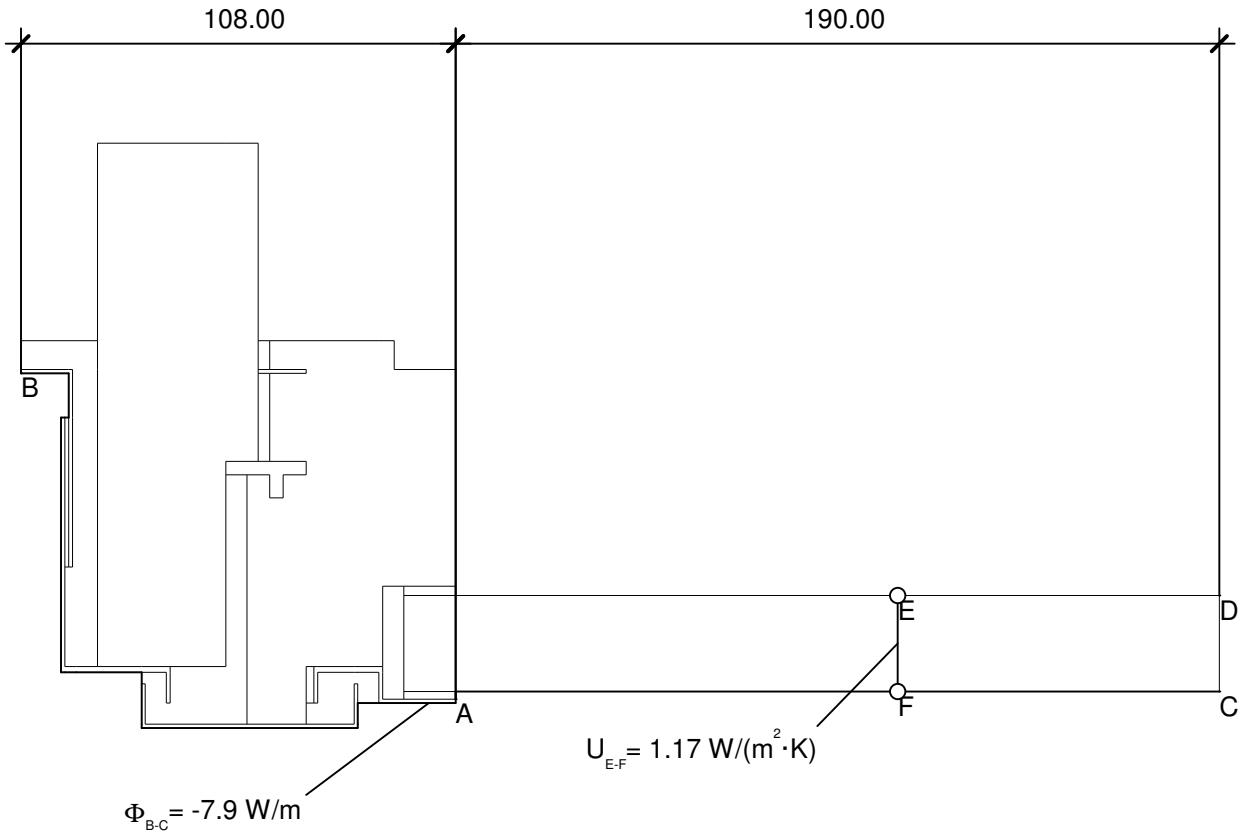

$$U_{f\,A} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-7.947}{-20.000} - 1.169 \cdot 0.190}{0.108} = 1.62\ W/(m^2 \cdot K)$$

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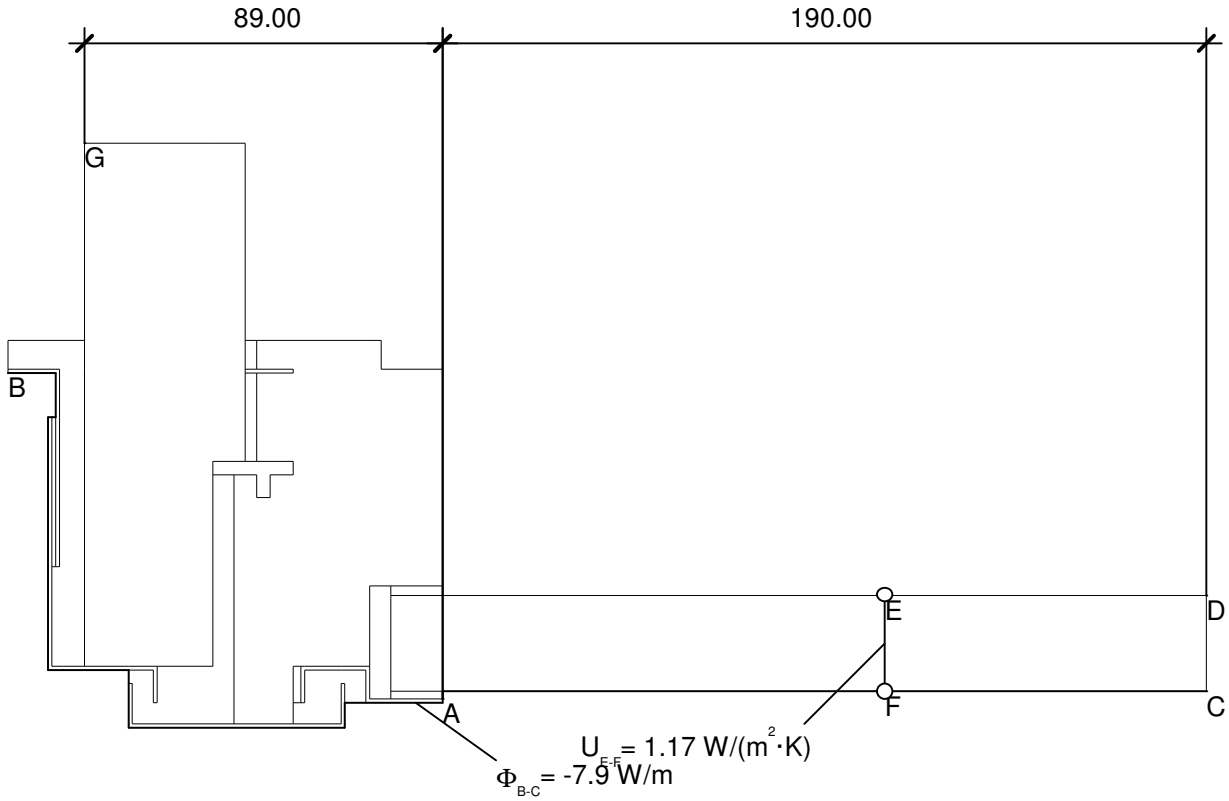

$$U_{fA} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-7.947}{-20.000} - 1.169 \cdot 0.190}{0.089} = 1.97 \text{ W/(m}^2\text{·K)}$$

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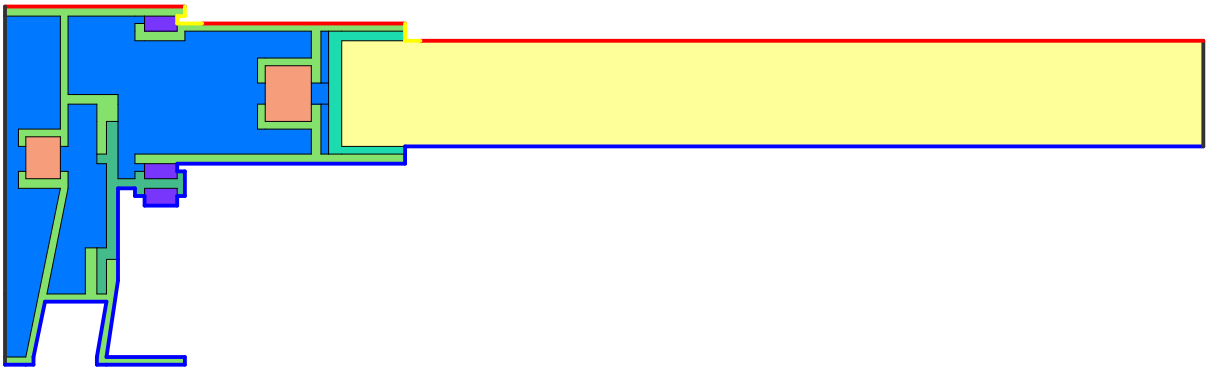

Name	λ[W/(m·K)]
Aluminium (Si alloys)	160.000
EPDM (ethylene propylene diene monomer)	0.250
Mohair (polyester) sweep	0.140
PU (polyurethane), rigid	0.250
Panel	0.035
Polyamid (nylon)	0.250
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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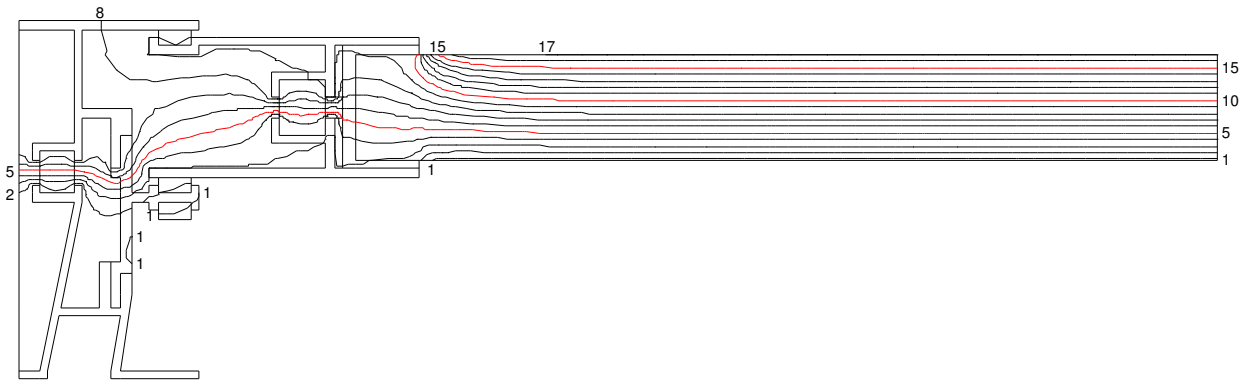

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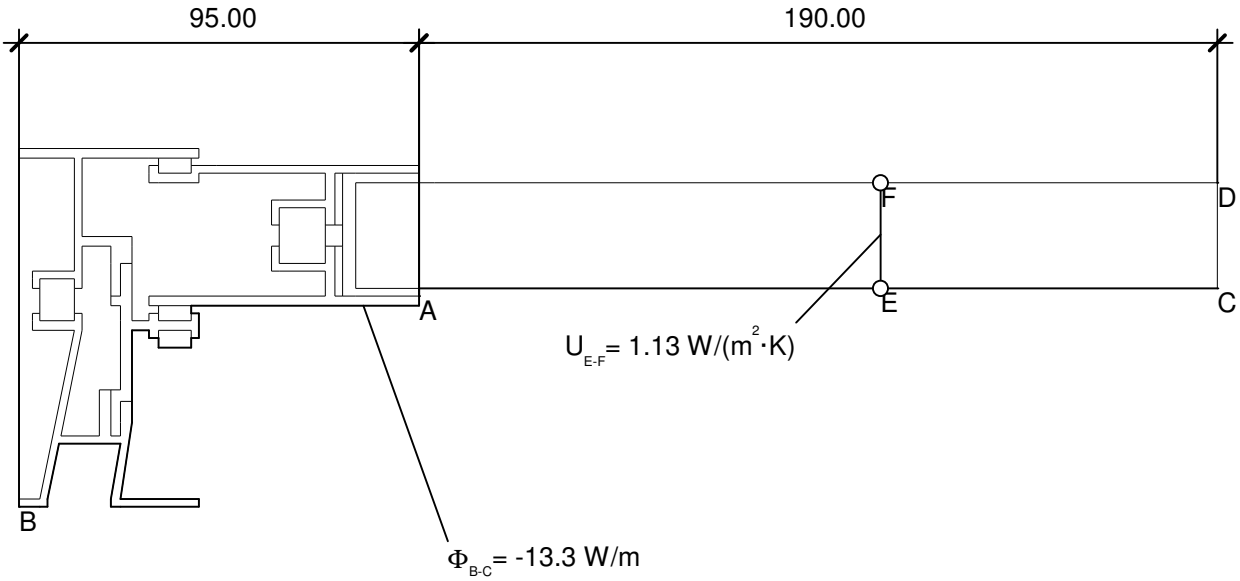

$$U_{fA} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-13.277}{-20.000} - 1.131 \cdot 0.190}{0.095} = 4.73 \text{ W/(m}^2\text{·K)}$$

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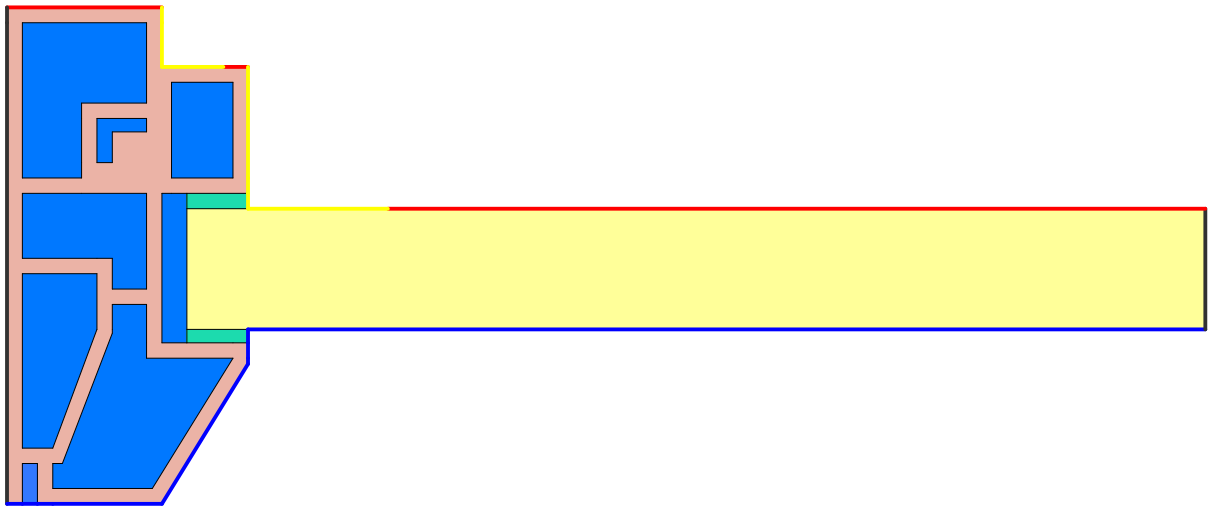

Name	λ[W/(m·K)]
EPDM (ethylene propylene diene monomer)	0.250
PVC (polyvinylchloride), rigid	0.170
Panel	0.035
Slightly ventilated air cavity, Eps=0.9	
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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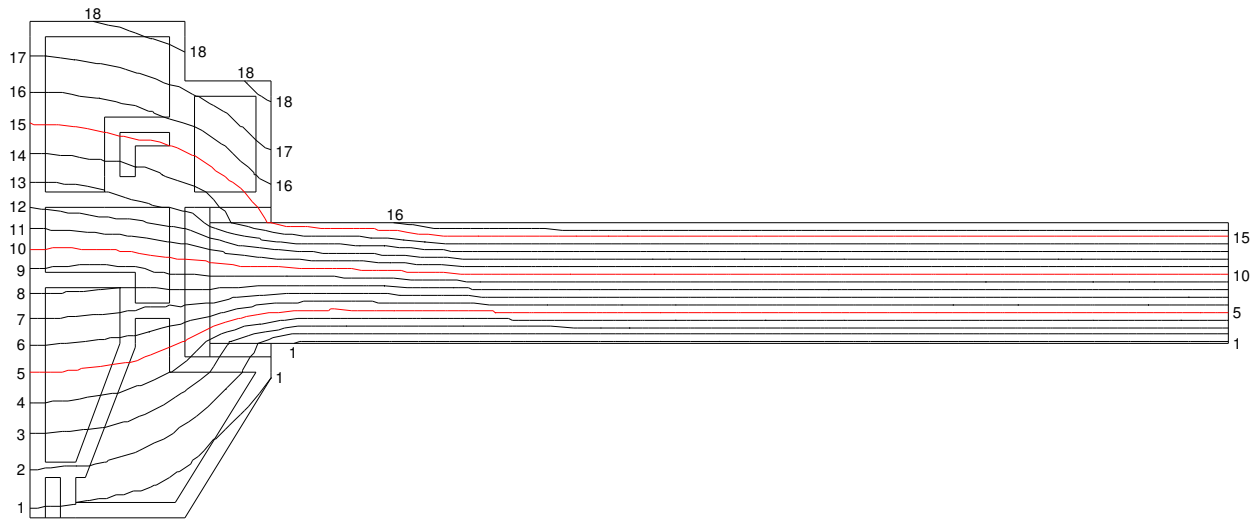

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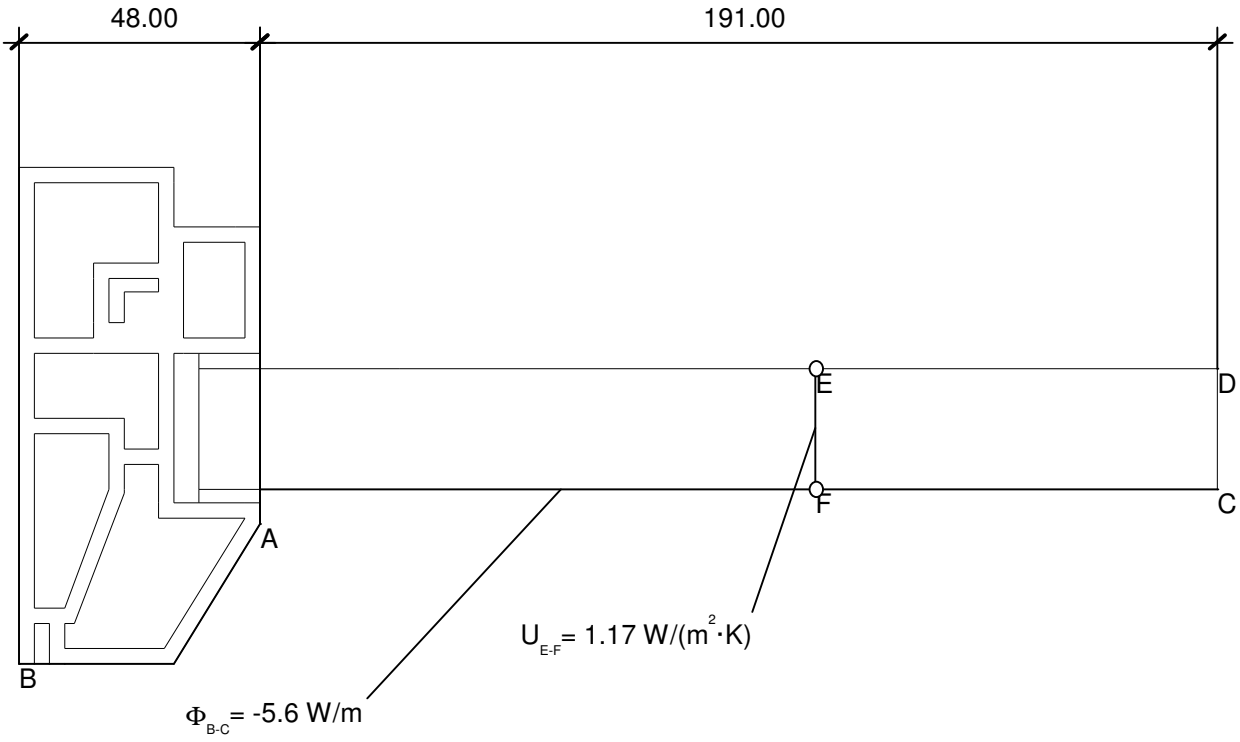

$$U_{f\,A} = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{-5.634}{-20.000} - 1.169 \cdot 0.191}{0.048} = 1.22\ \mathrm{W/(m^2 \cdot K)}$$

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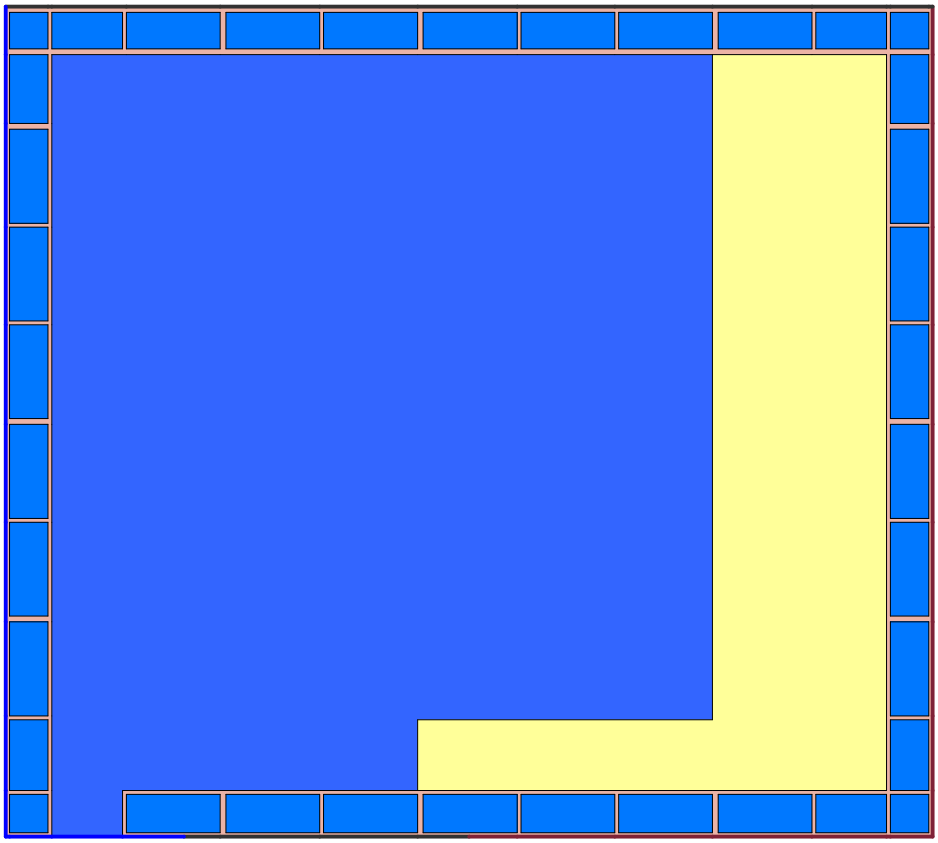

Name	λ[W/(m·K)]
PVC (polyvinylchloride), rigid	0.170
Panel	0.035
Slightly ventilated air cavity, Eps=0.9	
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, normal		20.000	7.69231
Symmetry/Model section	0.000		

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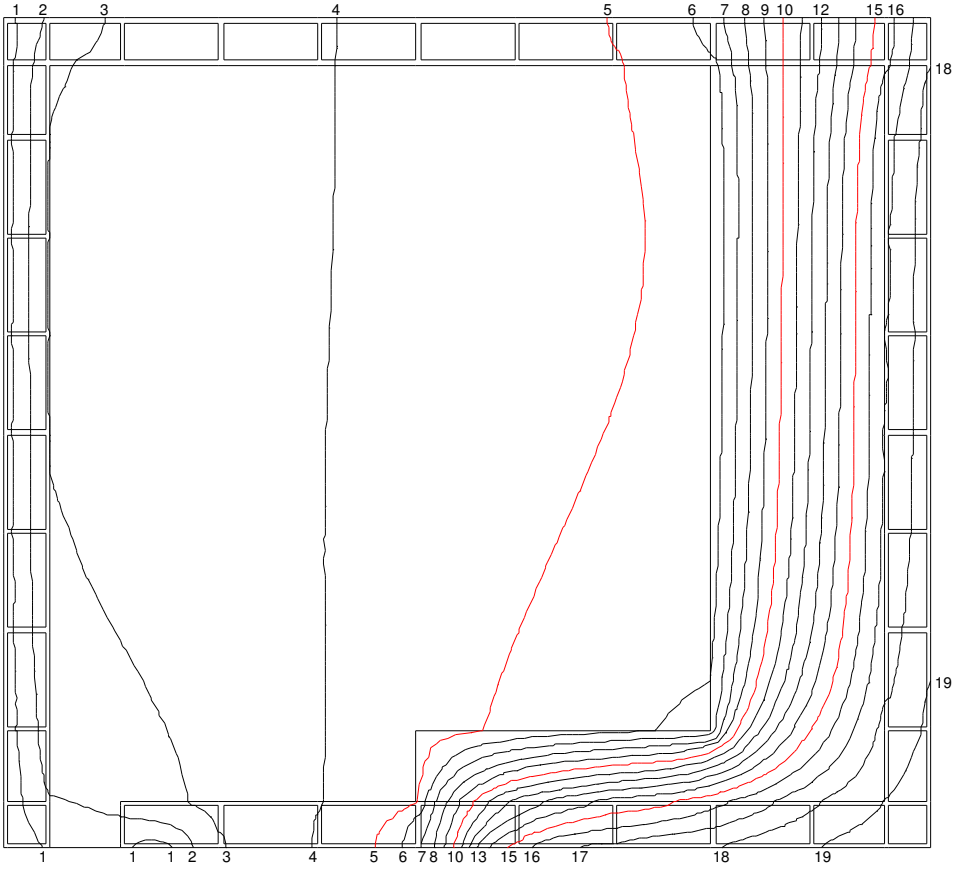

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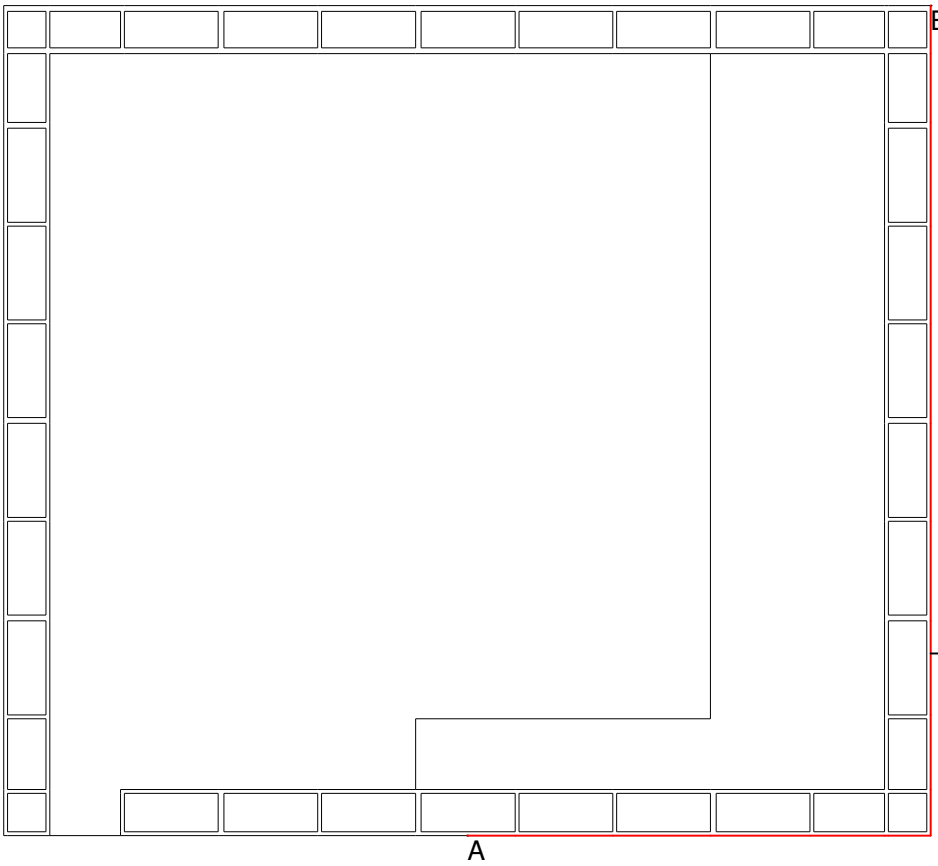

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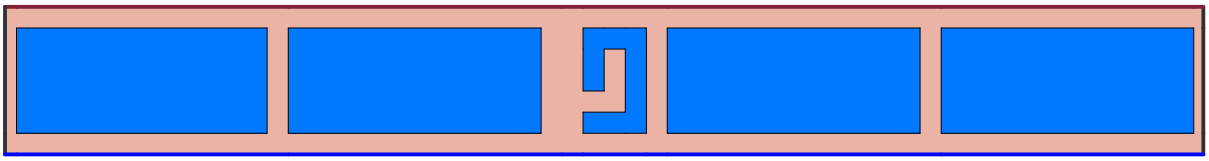

Name	λ[W/(m·K)]
PVC (polyvinylchloride), rigid	0.170
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, normal		20.000	7.69231
Symmetry/Model section	0.000		

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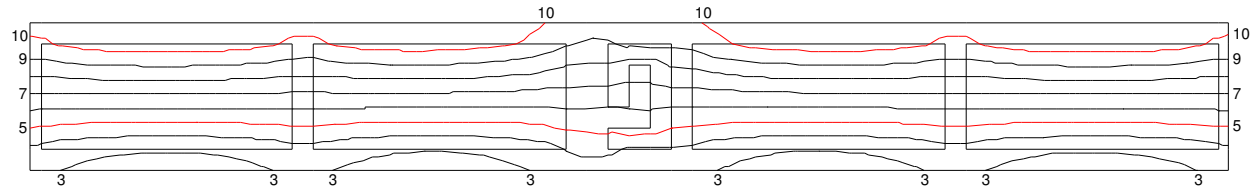

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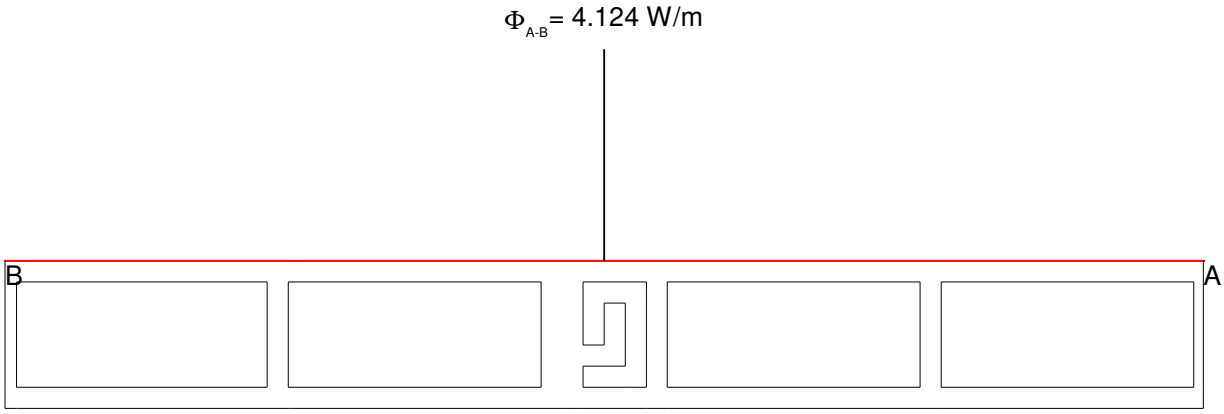

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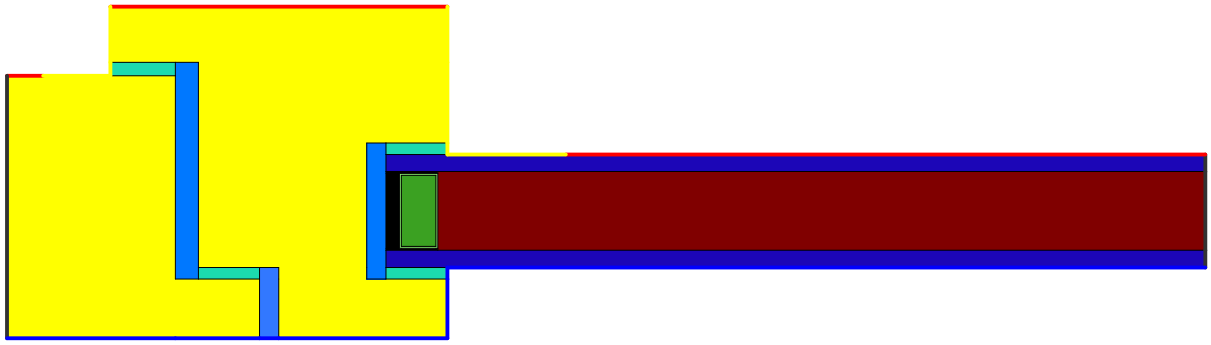

Name	λ[W/(m·K)]
Aluminium (Si alloys)	160.000
EPDM (ethylene propylene diene monomer)	0.250
Glasin filling	0.034
Polysulfide (1)	0.400
Silica gel (dessicant) (1)	0.130
Slightly ventilated air cavity, Eps=0.9	
Soda lime glass	1.000
Softwood (typical construction timber)	0.130
Unventilated air cavity, Eps=0.9	

Name	q[W/m²]	θ[°C]	h[W/(m²·K)]
Exterior, frame		0.000	25.000
Interior, frame, normal		20.000	7.69231
Interior, frame, reduced		20.000	5.000
Symmetry/Model section	0.000		

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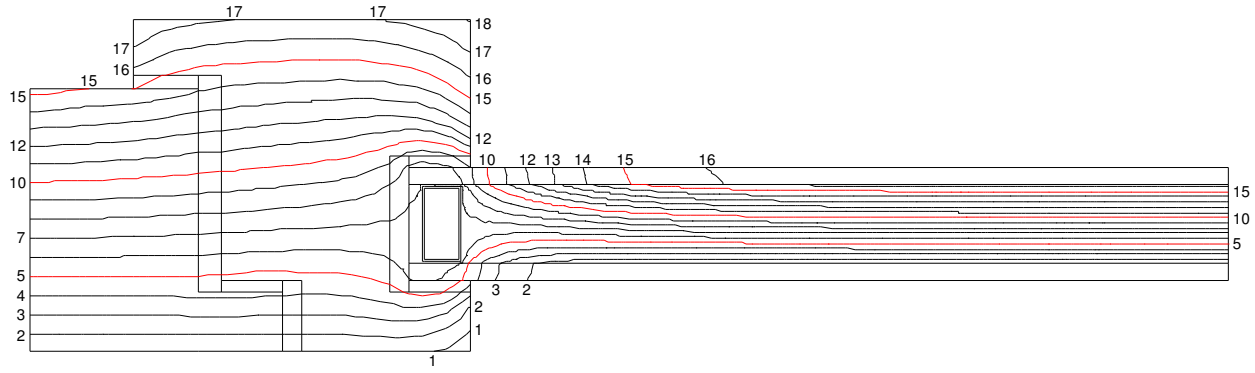

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