TERMAL ANALİZ
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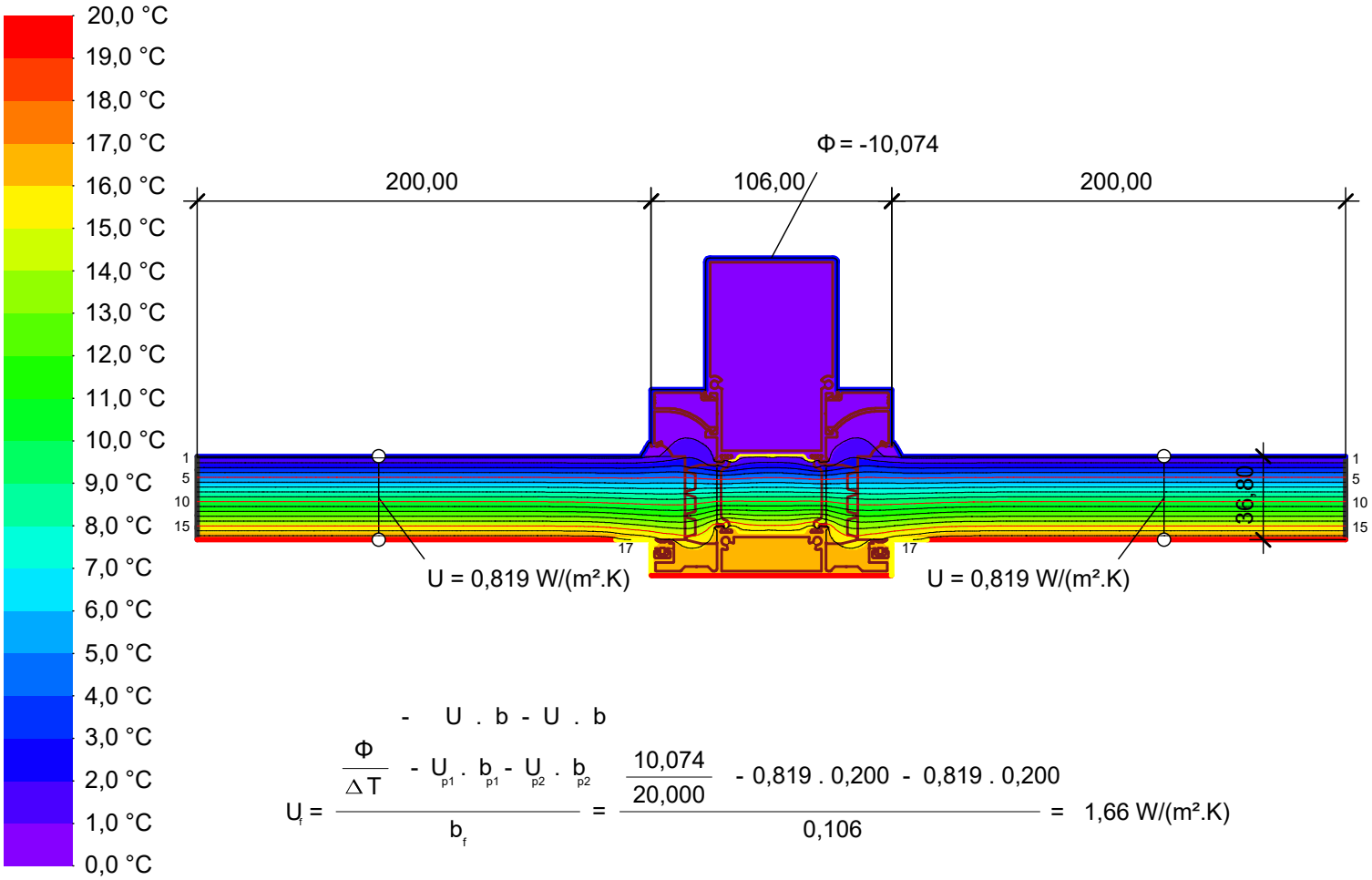
THERMAL ANALYSIS



$$U_f = \frac{\frac{\Phi}{\Delta T} - U_{p1} \cdot b_{p1} - U_{p2} \cdot b_{p2}}{b_f} = \frac{\frac{10,074}{20,000} - 0,819 \cdot 0,200 - 0,819 \cdot 0,200}{0,106} = 1,66 \text{ W/(m}^2\text{.K)}$$

Material	λ[W/(m.K)]	ε
Aluminium (Si Alloys)	160,000	0,300
Aluminium (Si Alloys)	160,000	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900
Norton	0,041	0,900
Panel	0,035	0,900
Polyamid 6.6 with 25% glassfibre	0,300	0,900
Unventilated air cavity **		
epdm sünger	0,037	0,900

** EN ISO 10077-2:2017, 6.4.3/anisotrop

Boundary Condition	q[W/m²]	θ[°C]	R(m².K)/W]	ε
Epsilon 0.3				0,300
Epsilon 0.9				0,900
Exterior, frame		0,000	0,040	
Interior, frame, normal		20,000	0,130	
Interior, frame, reduced		20,000	0,200	
Symmetry/Model section	0,000			

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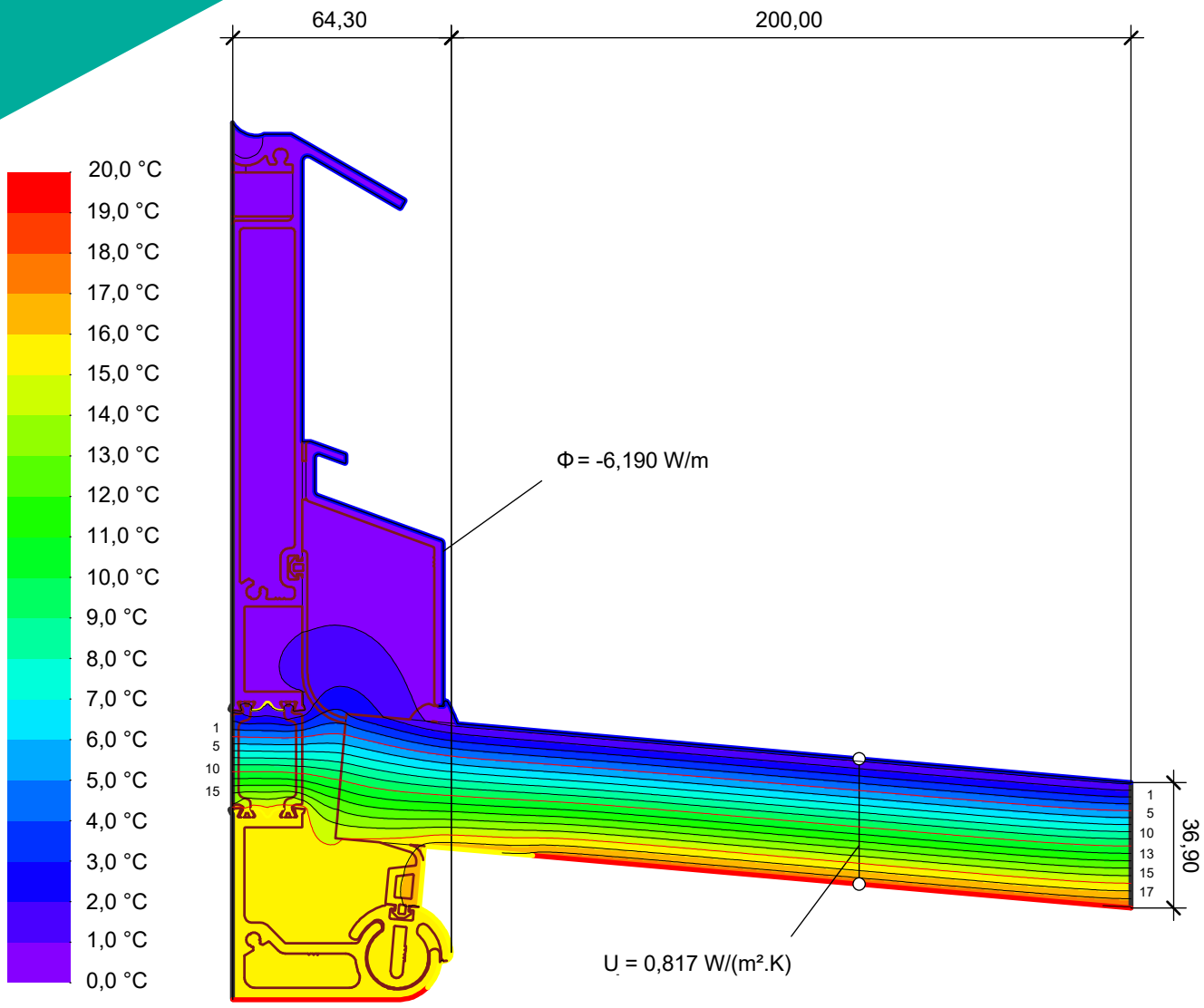

$$U_f = \frac{\frac{\Phi}{\Delta T} - U_p \cdot b_p}{b_f} = \frac{\frac{6,190}{20,000} - 0,817 \cdot 0,200}{0,064} = 2,77\ W/(m^2.K)$$

Material	λ[W/(m.K)]	ε
Aluminium (Si Alloys)	160,000	0,300
Aluminium (Si Alloys)	160,000	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900
Norton	0,041	0,900
Panel	0,035	0,900
Polyamid 6.6 with 25% glassfibre	0,300	0,900
Silicone, pure (1)	0,350	0,900
Slightly ventilated air cavity **		
Unventilated air cavity **		
styrofoam	0,040	0,900

** EN ISO 10077-2:2017, 6.4.3/anisotrop

Boundary Condition	q[W/m²]	θ [°C]	R(m².K)/W	ε
Epsilon 0.3				0,300
Epsilon 0.9				0,900
Exterior, frame		0,000	0,040	
Interior, frame, normal		20,000	0,130	
Interior, frame, reduced		20,000	0,200	
Symmetry/Model section	0,000			

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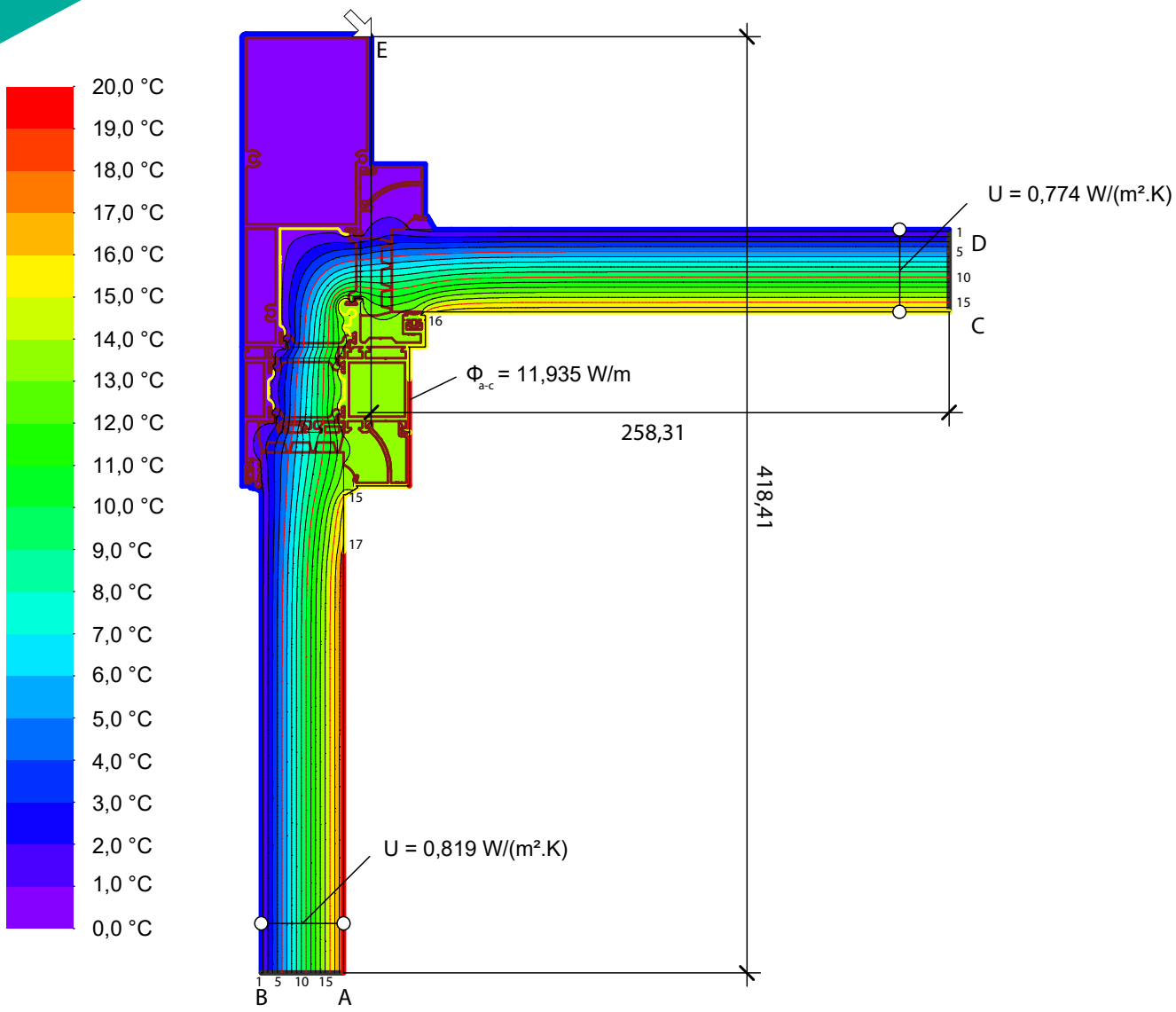

$$\Psi_{A\text{-}E\text{-}C} = \frac{\Phi}{\Delta T} - U_1 \cdot b_1 - U_2 \cdot b_2 = \frac{11{,}935}{20{,}000} - 0{,}819 \cdot 0{,}418 - 0{,}774 \cdot 0{,}258 = 0{,}054 \text{ W/(m}^2\text{.K)}$$

Material	λ[W/(m.K)]	ε
Aluminium (Si Alloys)	160,000	0,300
Aluminium (Si Alloys)	160,000	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900
Norton	0,041	0,900
Panel	0,035	0,900
Polyamid 6.6 with 25% glassfibre	0,300	0,900
Unventilated air cavity **		
epdm sünger	0,037	0,900

** EN ISO 10077-2:2017, 6.4.3/anisotrop

Boundary Condition q[W/m²]	θ[°C]	R(m².K)/W]	ε
Epsilon 0.3			0,300
Epsilon 0.9			0,900
Exterior, frame	0,000	0,040	
Interior, frame, normal	20,000	0,130	
Interior, frame, reduced	20,000	0,200	
Symmetry/Model section 0,000			

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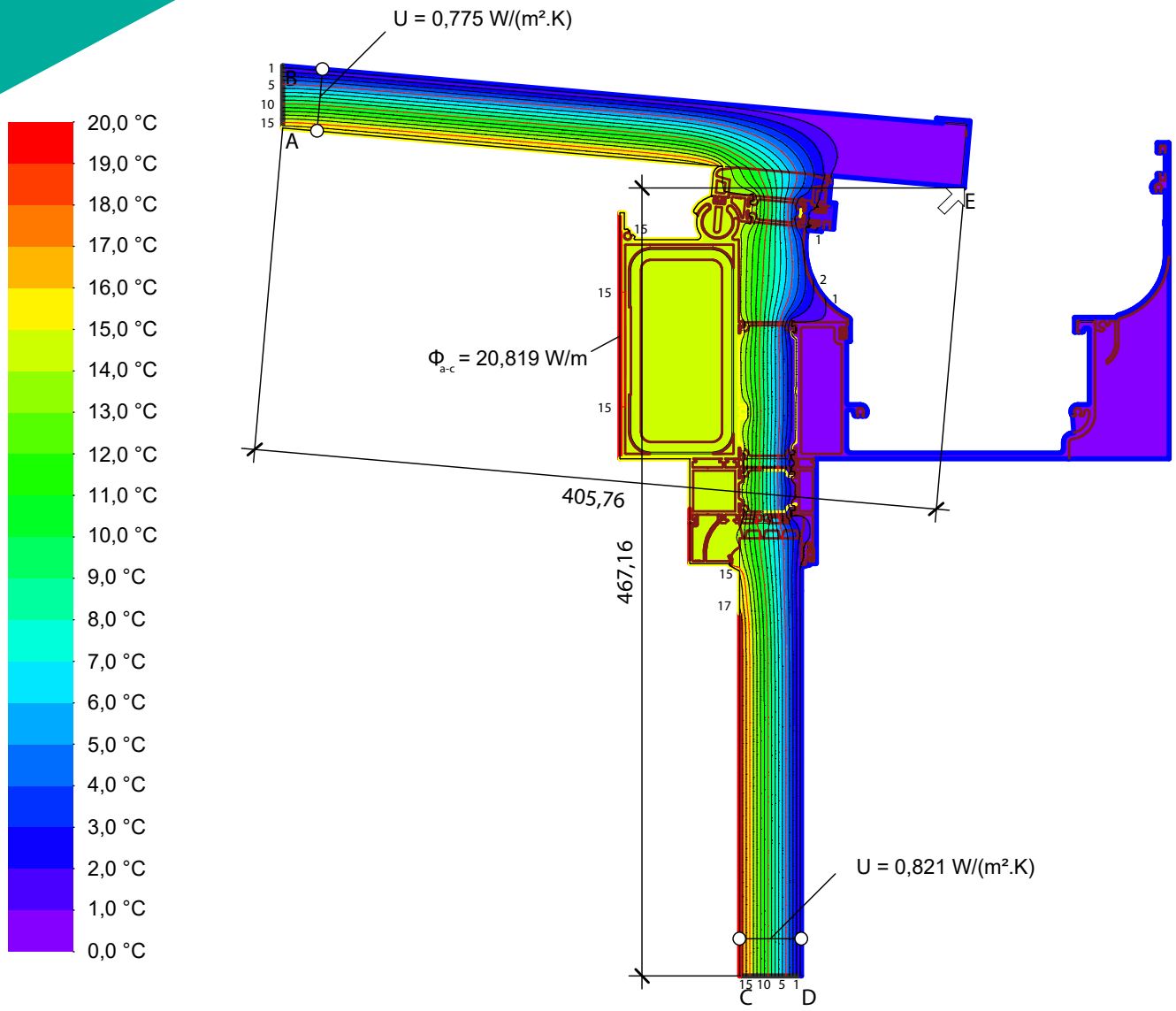

$$\Psi_{A\text{-}E\text{-}C} = \frac{\Phi}{\Delta T} - U_1 \cdot b_1 - U_2 \cdot b_2 = \frac{20{,}819}{20{,}000} - 0{,}775 \cdot 0{,}406 - 0{,}821 \cdot 0{,}467 = 0{,}343 \text{ W/(m².K)}$$

Material	λ[W/(m.K)]	ε
Aluminium (Si Alloys)	160,000	0,300
Aluminium (Si Alloys)	160,000	0,900
EPDM (ethylene propylene diene monomer)	0,250	0,900
EPDM membran	0,300	0,900
Norton	0,041	0,900
Panel	0,0,35	0,900
Polyamid 6.6 with 25% glassfibre	0,300	0,900
Polyamid 6.6 with 25% glassfibre	0,300	0,900
Slightly ventilated air cavity **		0,900
Steel	50,000	0,900
Unventilated air cavity **		
epdm sünger	0,037	0,900

** EN ISO 10077-2:2017, 6.4.3/anisotrop

Boundary Condition q[W/m²]	θ[°C]	R(m².K)/W	ε
Epsilon 0.3			0,300
Epsilon 0.9			0,900
Exterior, frame	0,000	0,040	
Interior, frame, normal	20,000	0,130	
Interior, frame, reduced	20,000	0,200	
Symmetry/Model section 0,000			

ALUSTATE

ALUSTATE İÇ VE DIŞ TİCARET LTD. ŞTİ.

Esentepe Mah. Milangaz Cad. No:77 Dumankaya Vizyon A1 Blok D 105 Kartal İSTANBUL

info@alustate.net

export@alustate.net

+90 216 909 03 50