

Tagkant

Emne: Tommerupvej A01 Tagkant

Tegning: (99)140-05E

2102,00

V isolering 037 træ 45/600

 $\lambda_{hor} = 0,056 \text{ W}/(\text{m}\cdot\text{K})$ $\lambda_{ver} = 0,044 \text{ W}/(\text{m}\cdot\text{K})$ $\theta_{si \text{ min}_{F,D}} = 18,09 \text{ }^\circ\text{C}$ $f_{Rsi} = 0,936$ $\psi_{si(50\%)} = 56\%$ $\Phi_{C-E} = -24,387 \text{ W/m}$

L isolering 037 træ 45/600

 $\lambda_{hor} = 0,044 \text{ W}/(\text{m}\cdot\text{K})$ $\lambda_{ver} = 0,056 \text{ W}/(\text{m}\cdot\text{K})$

$$\Psi_{C-G,E,*} = \frac{\Phi}{\Delta T} - U_1 \cdot b_1 - U_2 \cdot b_2 = \frac{24,387}{30,000} - 0,128 \cdot 2,033 - 0,264 \cdot 2,102 = -0,003 \text{ W}/(\text{m}\cdot\text{K})$$

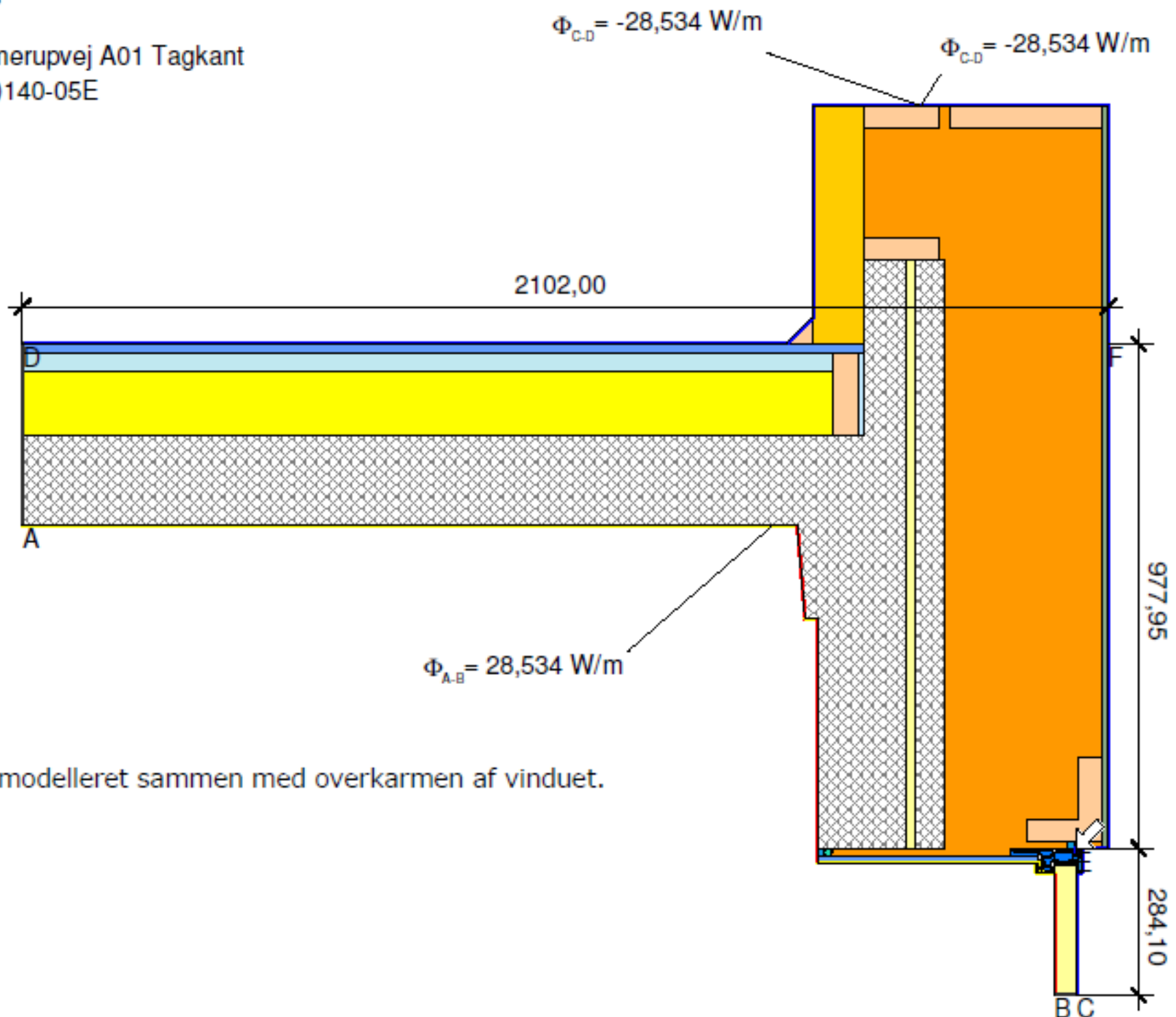
Material	$\lambda[\text{W}/(\text{m}\cdot\text{K})]$
Air layer, unventilated, horizontal, thickness: 8 mm	0,059
Air layer, unventilated, upwards, thickness: 10 mm	0,067
Concrete, reinforced (with 1% of steel)	2,300
Isolering 050	0,050
L isolering 032 træ 45/600	0,039, 0,051
L isolering 037 træ 45/600	0,044, 0,056
Oriented strand board (OSB)	0,130
Plywood 500 kg/m ³	0,130
Softwood (typical construction timber)	0,130
V isolering 037 træ 45/600	0,056, 0,044

Boundary Condition	$q[\text{W}/\text{m}^2]$	$\theta[^\circ\text{C}]$	$R[(\text{m}^2\cdot\text{K})/\text{W}]$	ϵ
Exterior, normal		-10,000	0,040	
Exterior, ventilated		-10,000	0,130	
Interior, heat flux, upwards		20,000	0,100	
Interior, normal, horizontal		20,000	0,130	
Symmetry/Model section	0,000			

Vindue oppe

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Tagkanten modelleret sammen med overkarmen af vinduet.

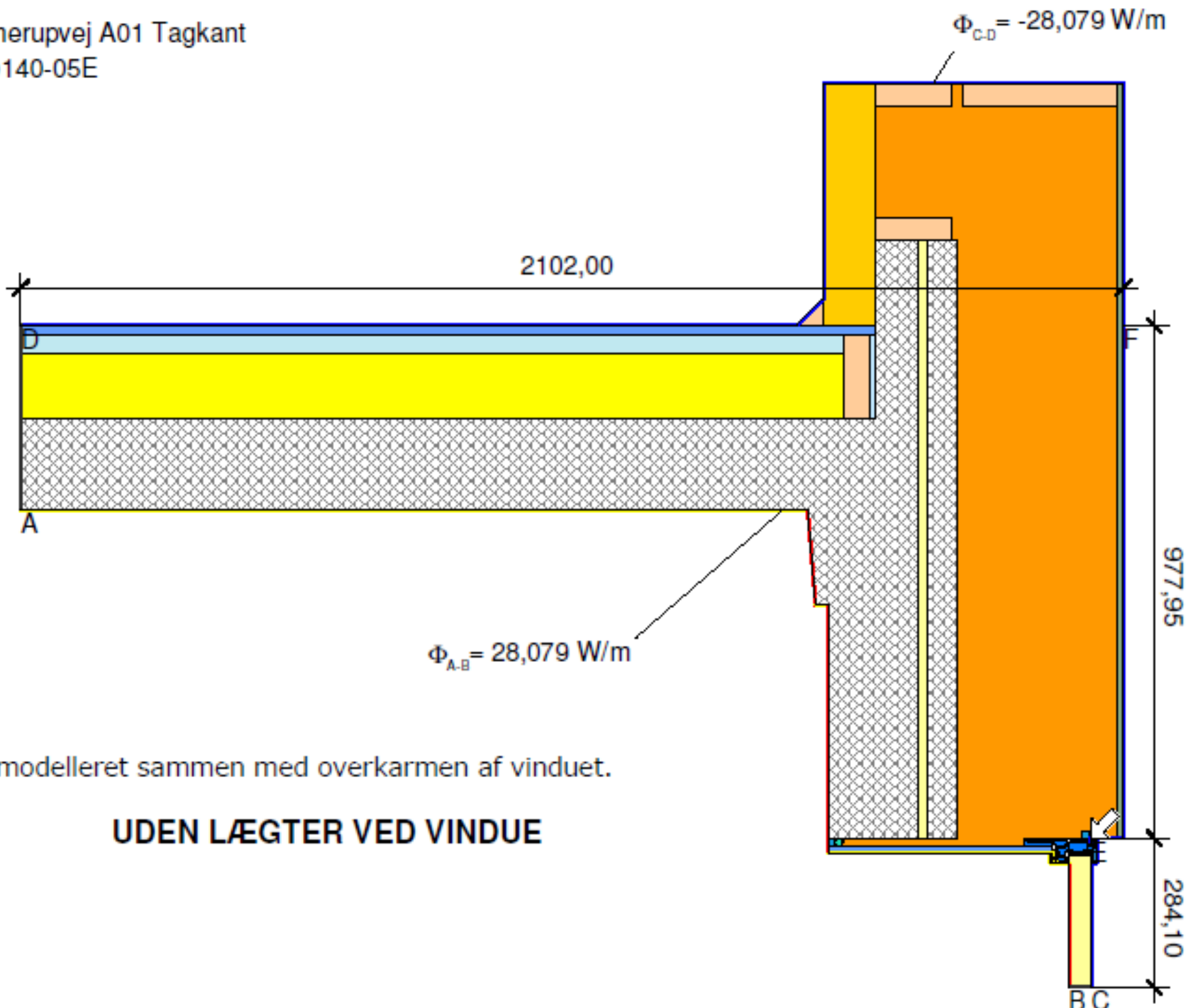
$$\Psi_{C-E,D,*} = \frac{\Phi}{\Delta T} - \frac{\Phi_1}{\Delta T} - U_2 \cdot b_2 - U_3 \cdot b_3 = \frac{28,534}{30,000} - \frac{7,196}{30,000} - 0,128 \cdot 0,978 - 0,264 \cdot 2,102 = 0,031 \text{ W}/(\text{m} \cdot \text{K})$$

Material	λ [W/(m·K)]	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Air layer, unventilated, horizontal, thickness: 8 mm	0,059	Exterior, normal		-10,000	0,040	
Air layer, unventilated, upwards, thickness: 10 mm	0,067	Interior, heat flux, upwards		20,000	0,100	
Concrete, reinforced (with 1% of steel)	2,300	Interior, normal, horizontal		20,000	0,130	
EPDM (ethylene propylene diene monomer)	0,250	Symmetry/Model section	0,000			
Fuge 0,400	0,040					
GRP 0,223	0,223					
Isolering 050	0,050					
L isolering 032 træ 45/600	0,039, 0,051					
L isolering 037 træ 45/600	0,044, 0,056					
Oriented strand board (OSB)	0,130					
Panel	0,035					
Plywood 500 kg/m ³	0,130					
Polysulfide (1)	0,400					
Softwood (typical construction timber)	0,130					
Steel	50,000					
Unventilated air cavity	anisotropic Eps=0,9/0,9					
V isolering 037 træ 45/600	0,056, 0,044					

Vindue oppe uden træ

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UDEN LÆGTER VED VINDUE

$$\Psi_{C-E,D,*} = \frac{\Phi}{\Delta T} - \frac{\Phi_1}{\Delta T} - U_2 \cdot b_2 - U_3 \cdot b_3 = \frac{28,079}{30,000} - \frac{7,196}{30,000} - 0,128 \cdot 0,978 - 0,264 \cdot 2,102 = 0,016 \text{ W}/(\text{m} \cdot \text{K})$$

Material	λ [W/(m·K)]	Boundary Condition	q [W/m ²]	θ [°C]	R [(m ² ·K)/W]	ϵ
Air layer, unventilated, horizontal, thickness: 8 mm	0,059	Exterior, normal		-10,000	0,040	
Air layer, unventilated, upwards, thickness: 10 mm	0,067	Interior, heat flux, upwards		20,000	0,100	
Concrete, reinforced (with 1% of steel)	2,300	Interior, normal, horizontal		20,000	0,130	
EPDM (ethylene propylene diene monomer)	0,250	Symmetry/Model section	0,000			
Fuge 0,400	0,040					
GRP 0,223	0,223					
Isolering 050	0,050					
L isolering 032 træ 45/600	0,039, 0,051					
L isolering 037 træ 45/600	0,044, 0,056					
Oriented strand board (OSB)	0,130					
Panel	0,035					
Plywood 500 kg/m ³	0,130					
Polysulfide (1)	0,400					
Softwood (typical construction timber)	0,130					
Steel	50,000					
Unventilated air cavity	anisotropic Eps=0,9/0,9					
V isolering 037 træ 45/600	0,056, 0,044					