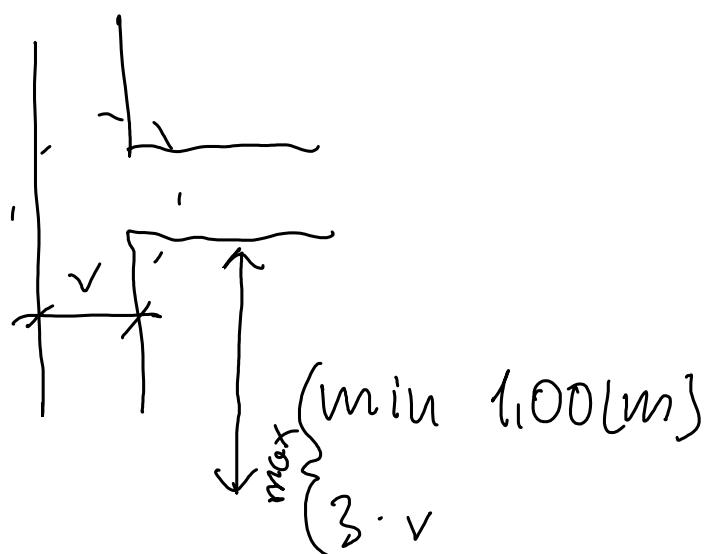
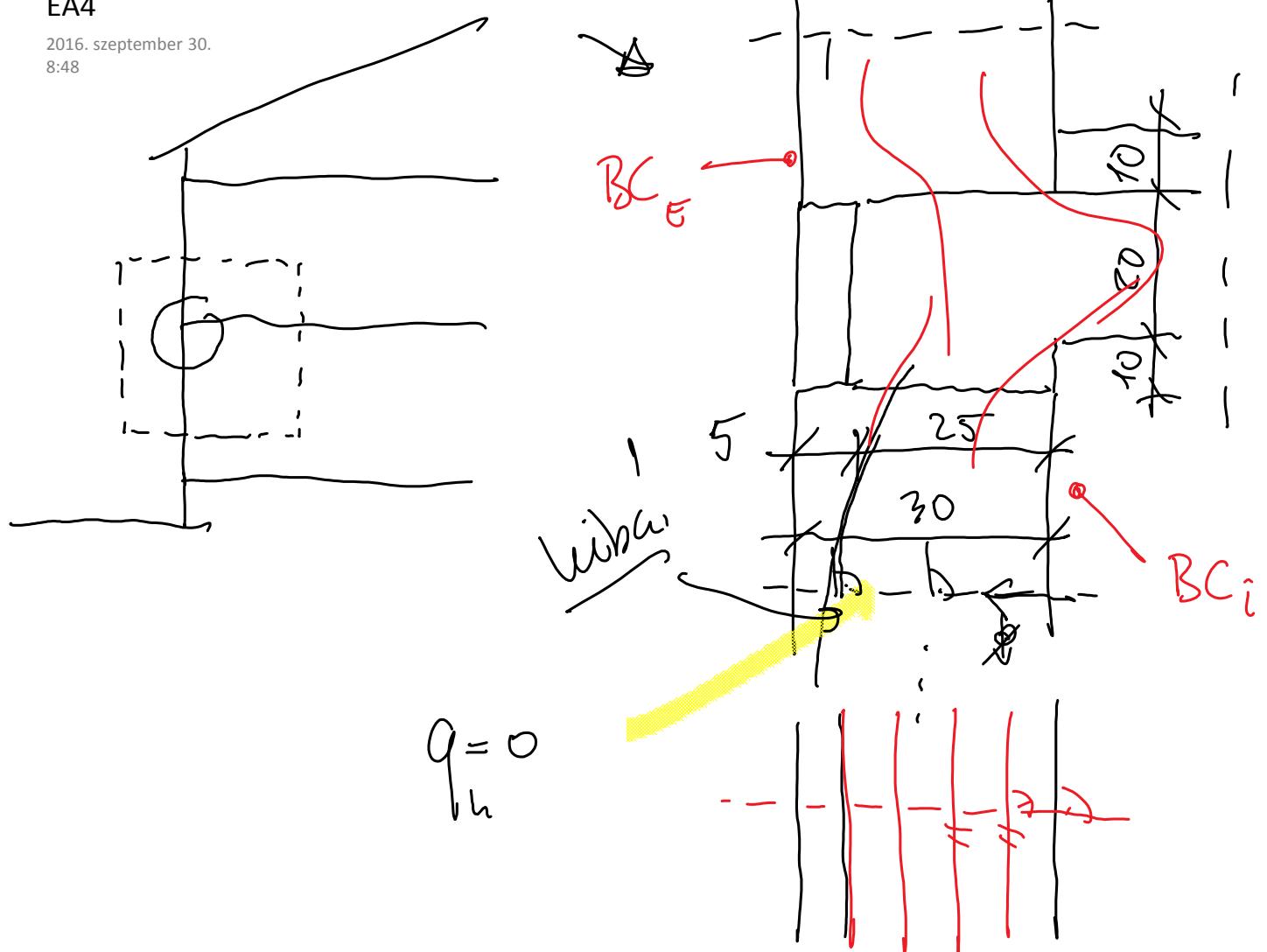


EA4

2016. szeptember 30.
8:48



I

pre - processing

- geometria
- alegágiellezők
- fizika
- percepciók
- kezdeti értékek
- numerikus... - háló
- diszkrétizáció



II

megoldás

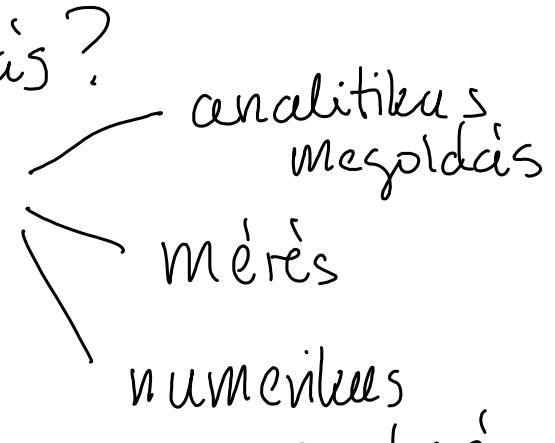


...

III

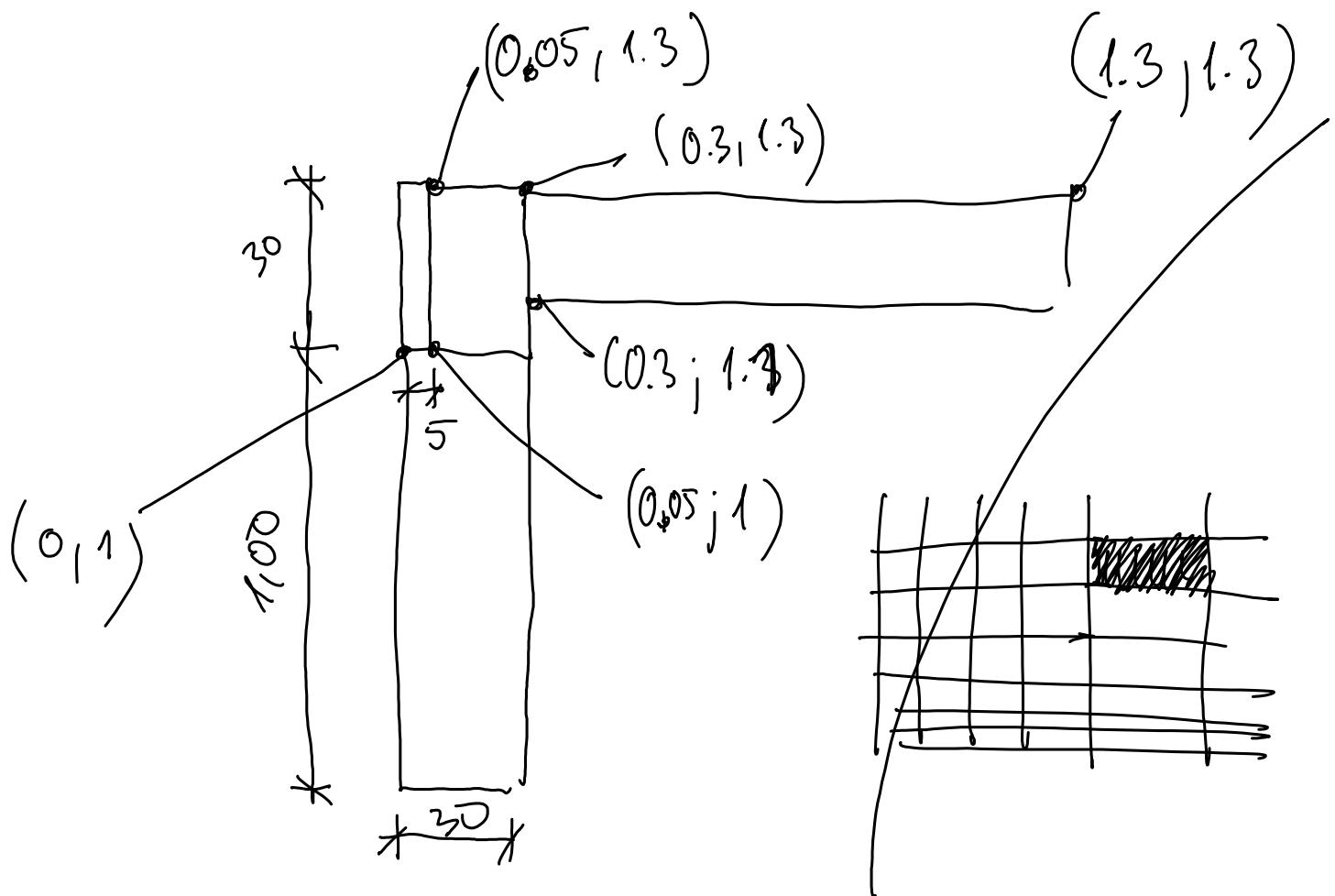
post - processing

- konvergencia?
- eredmények ellenőrzése
- plausibilitás?
- validálás



numerikus
eredmény

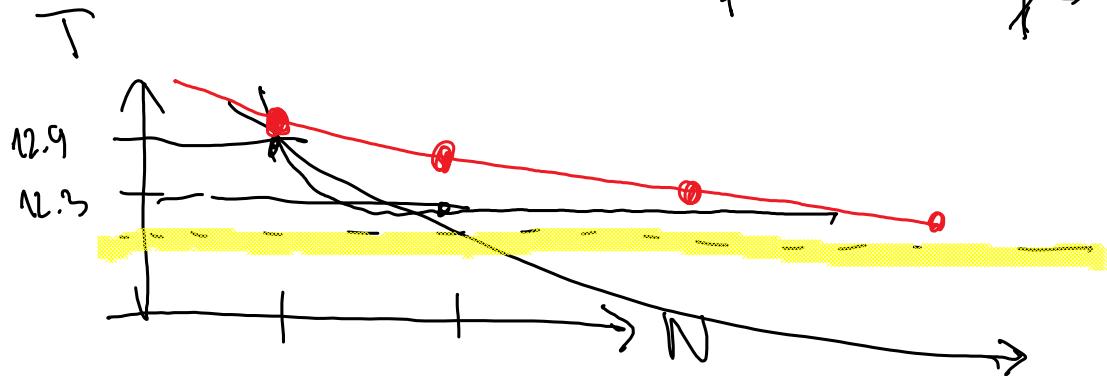
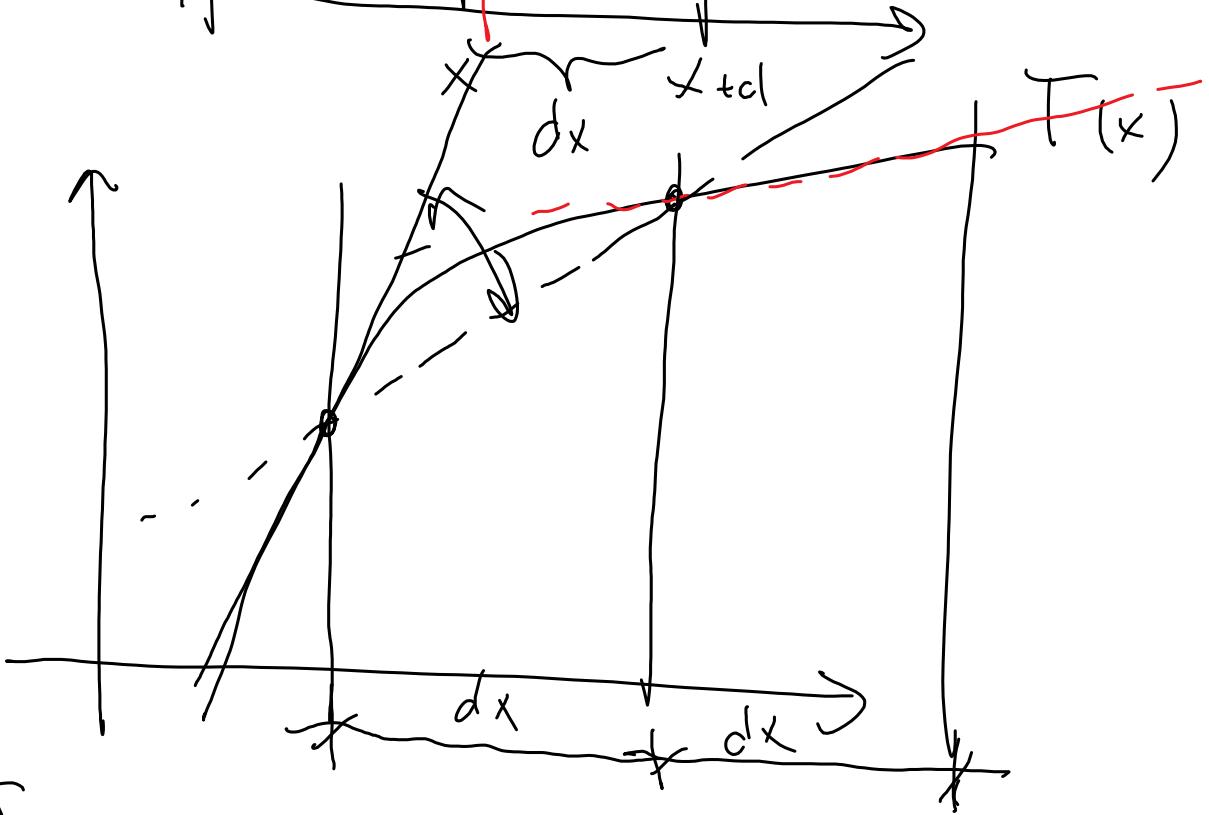
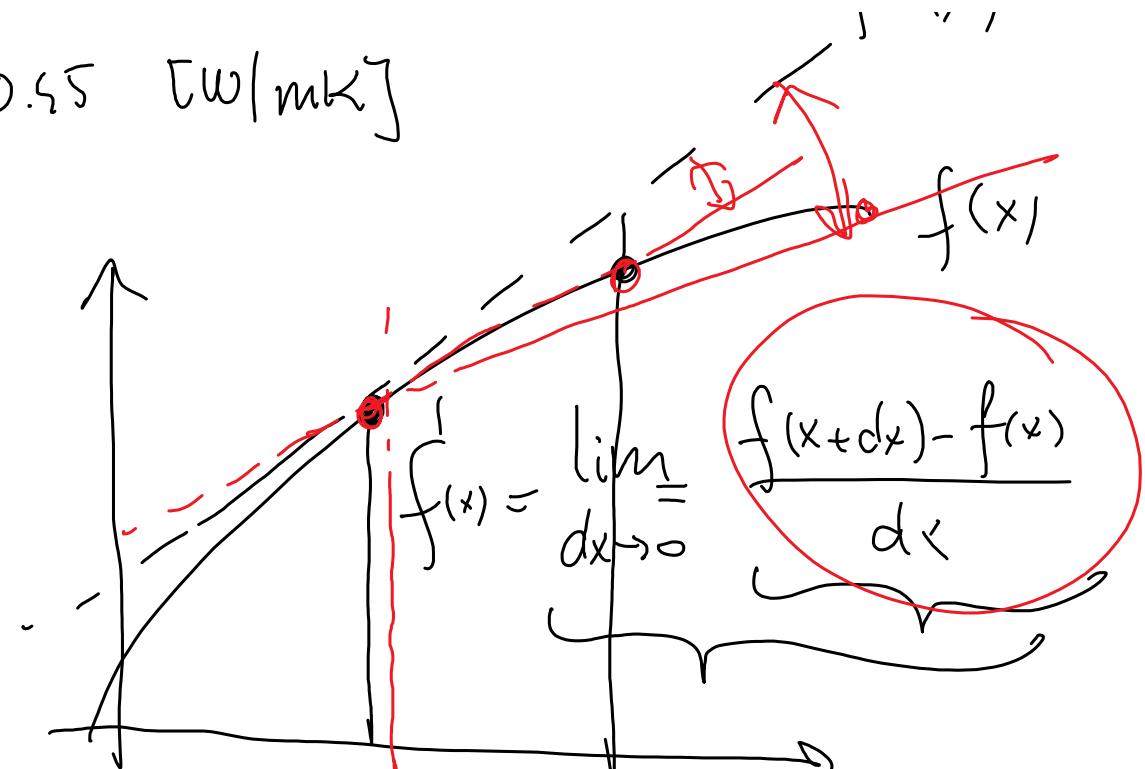
- kiitások → grafikus
→ numerikus output



$\lambda, \dots, 0.55 \text{ TW/mK}$

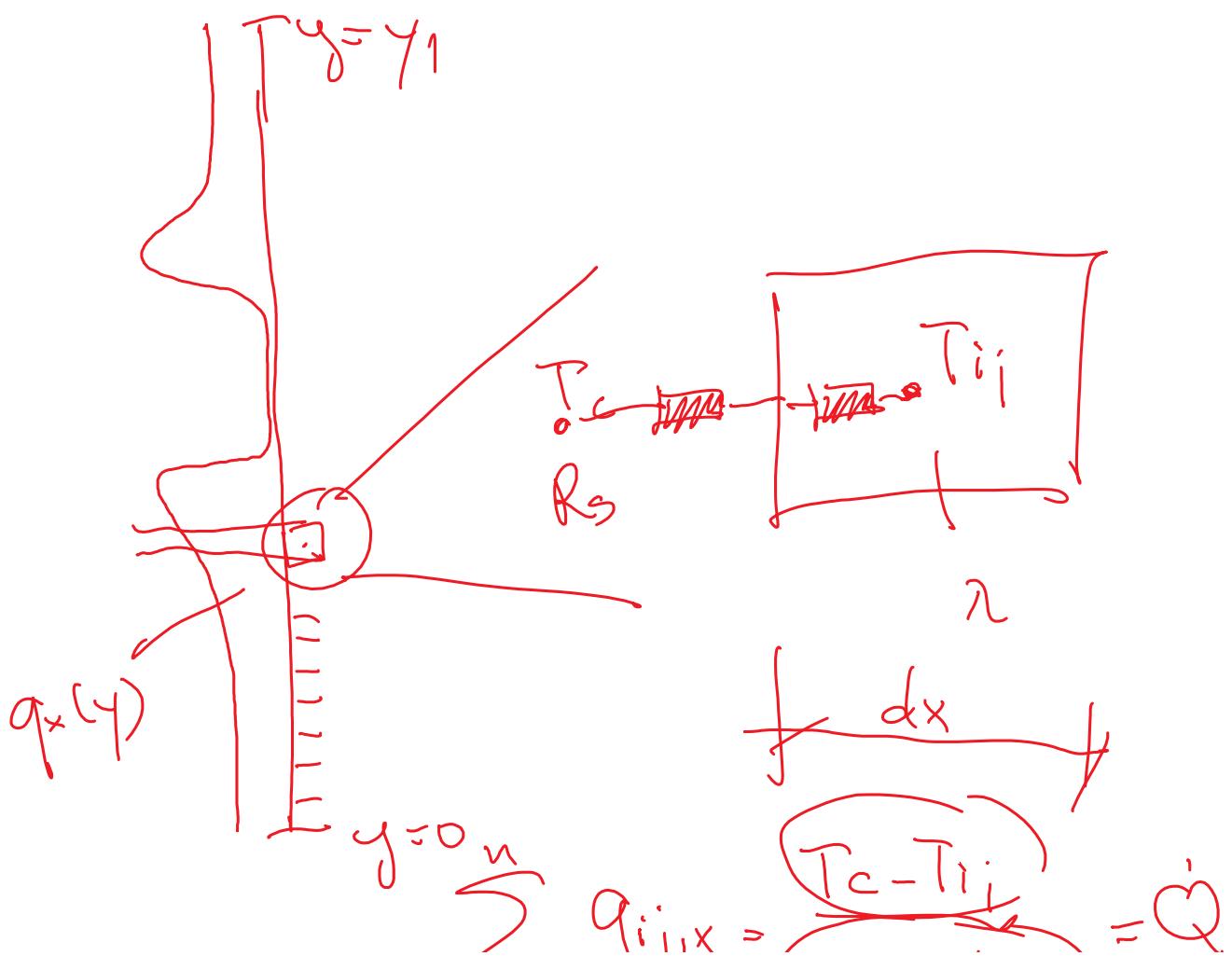
$f'(x)$

$$\lambda_{\text{brick}} = 0.55 \text{ TW/mK}$$



$$t_{200} \quad g_{00}$$

$$q = -k \frac{\Delta T}{L}$$



$$0 \sum_{i=0}^n q_{i,i,x} = \frac{1c - 11}{R_s + \frac{\alpha x}{2 \cdot \lambda}} = \dot{Q}$$

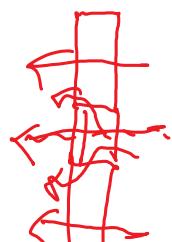
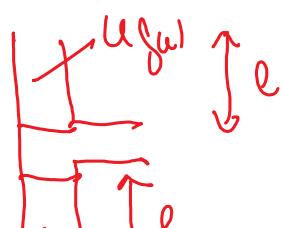
$\left[\frac{W}{m} \right]$

$$\int_{y=0}^{y_1} q_x(y) dy = \left[\dot{Q} \right] \left[\frac{W}{m} \right] = 73,3 \left[\frac{W}{m} \right]$$

$$\frac{\dot{Q}}{\Delta T} = \frac{73,3}{20} \Rightarrow 3,665 \left[\frac{W}{mK} \right] = L_{2D}$$

Termikus csatolási tényező

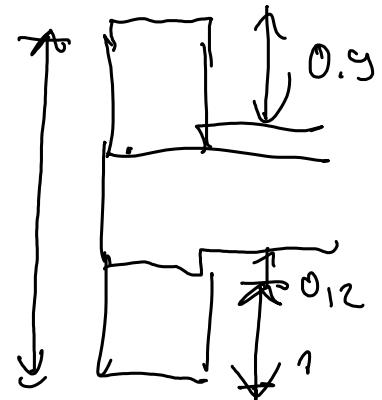
$$\left[\frac{W}{mK} \right] = U_{fal} \cdot C_{fal} + hiba = \left[\sum U \cdot l \right] + \left[\psi \right]$$





$$\psi_i = \underbrace{L_{2D}}_{\text{valös } 2D} - \underbrace{\sum u \cdot l_i}_{1D} \begin{bmatrix} w \\ \frac{w}{\mu k} \end{bmatrix}$$

$$3,665 - 1,195 \cdot 1.9 = \underline{\underline{1,395}}$$



$$\frac{1}{0.55} + 0.13 + 0.12 = 1,195$$