

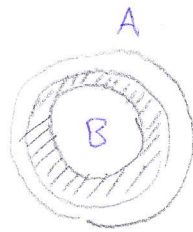
3-11

III. v. s. l.

$d_o = 30 \text{ mm}$

$d_i = 25 \text{ mm}$   
(stěna 2,5 mm)

$d_{ki} = 24 \text{ mm}$   
(kámen 0,5 mm)



$\lambda_1 = 47 \text{ W/m.K. (ocel)}$

$\lambda_2 = 1,7 \text{ W/m.K. (kot. kámen)}$

} CH1 - tabulky

$\alpha_A = 10000 \text{ W/m}^2 \cdot \text{K}$  (vnější stěna)

$\alpha_B = 4000 \text{ W/m}^2 \cdot \text{K}$  (vnitřní stěna)

$t_w = 100^\circ\text{C}$

$$K_L = \frac{\pi}{\frac{1}{\alpha_A \cdot d_o} + \frac{1}{2\lambda_1} \ln \frac{d_o}{d_i} + \frac{1}{2\lambda_2} \ln \frac{d_i}{d_{ki}} + \frac{1}{\alpha_B d_{ki}}}$$

$$K_L = \frac{\pi}{\frac{1}{10000 \cdot 0,030} + \frac{1}{2 \cdot 47} \ln \frac{30}{25} + \frac{1}{2 \cdot 1,7} \ln \frac{25}{24} + \frac{1}{4000 \cdot 0,024}}$$

$$K_L = \pi / \left\{ \begin{array}{l} \text{kond. pára} \\ 0,003333 \\ \text{ocel. stěna} \\ \cancel{0,03333} + 0,001940 + 0,01201 + \text{váleci voda} \\ \cancel{0,10417} + 0,01042 \end{array} \right\}$$

$K_L = 113,4 \text{ W/m.K}$

(Bez kotelního kamene by  $K_L = 205,7 \text{ W/m.K}$ )