

9-2

$$vnejší = 38 \text{ mm}$$

$$stěna = 2.5 \text{ mm}$$

$$\text{smalt} = 0.5 \text{ mm}$$

$$\lambda_2 = 0.6 \text{ W/mK}$$

$$\lambda_1 = 47 \text{ W/mK}$$

$$\dot{Q} = 2\pi L \frac{t_1 - t_{N+1}}{\underbrace{\sum \frac{1}{\lambda_i} \ln \frac{d_{i+1}}{d_i}}_{R_i}}$$

$$d_1 = 38 - 2 \cdot 2.5 = 33 \text{ mm}$$

$$d_2 = 38 \text{ mm}$$

$$d_3 = 38 + 2 \cdot 0.5 = 39 \text{ mm}$$

$$R_1 = \frac{1}{\lambda_1} \cdot \ln \frac{38}{33} = 0.0030617 \text{ m.K/W}$$

$$R_2 = \frac{1}{\lambda_2} \cdot \ln \frac{39}{38} = 0.043292 \text{ m.K/W}$$

$$\boxed{?} = \frac{R_1 + R_2}{R_1} = 15.4 \times \quad 15 \text{ krát větší odpor}$$