

$$\check{Z} = 1 + 3 \cdot P \cdot (P + 1)$$

P = št. plasti

$$S = \frac{\pi \cdot d^2}{4} \cdot \xi = \frac{\pi \cdot d^2}{4} \cdot \frac{3}{4} \longrightarrow d^2 = \frac{16 \cdot S}{3 \cdot \pi} \longrightarrow$$

$$d = \sqrt{\frac{16 \cdot S}{3 \cdot \pi}} = 1,3 \cdot \sqrt{S}$$

$$d = 1,3 \cdot \sqrt{S}$$

$$m_{cu} = \gamma_{cu} \cdot S_{cu} \cdot l_{cu}$$

$$m_{al} = \gamma_{al} \cdot S_{al} \cdot l_{al}$$

$$\frac{m_{cu}}{m_{al}} = \frac{\gamma_{cu}}{\gamma_{al}} = \frac{8,9 \cdot 10^{-3}}{2,7 \cdot 10^{-3}} = 3,29$$

$$m_{cu} = 3,29 \cdot m_{al}$$

$$\frac{\rho_{cu}}{S_{cu}} = \frac{\rho_{al}}{S_{al}}$$

$$\frac{S_{al}}{S_{cu}} = \frac{\rho_{al}}{\rho_{cu}} = \frac{0,028}{0,017} = 1,65 \longrightarrow$$

$$S_{al} = 1,65 \cdot S_{cu}$$

$$\frac{S_{al}}{S_{cu}} = 1,65$$

$$\frac{\frac{\pi \cdot d_{al}^2}{4}}{\frac{\pi \cdot d_{cu}^2}{4}}$$

$$\frac{d_{al}^2}{d_{cu}^2} = 1,65$$

$$\frac{d_{al}}{d_{cu}} = \sqrt{1,65}$$

$$d_{al} = 1,28 \cdot d_{cu}$$