

Beispiel (A)

Wandlängen

$$l_{38} = (10,91 + 6,00) * 2 = 33,82\text{m}$$

$$l_{25} = 6,00 + 3,50 + 2,25 = 11,75\text{m}$$

Wandflächen

$$\begin{aligned} A_{38} &= 33,82 * 2,85 = & 96,39\text{m}^2 \\ &- 4 * 1,35 * 1,25 = & -6,75\text{m}^2 \\ &- 2,50 * 2,25 = & -5,63\text{m}^2 \\ &- 1,60 * 2,25 = & -3,60\text{m}^2 \\ & & \underline{80,41\text{m}^2} \end{aligned}$$

$$\begin{aligned} A_{25} &= 11,75 * 2,85 = & 33,49\text{m}^2 \\ &- 2 * 0,80 * 2,00 = & -3,20\text{m}^2 \\ & & \underline{30,29\text{m}^2} \end{aligned}$$

Ziegelbedarf

$$n_{1-38} = \frac{1}{0,25 * (0,238 + 0,012)} = \underline{16\text{Stk}/\text{m}^2}$$

$$n_{1-25} = \frac{1}{0,38 * (0,238 + 0,012)} = \underline{10,5\text{Stk}/\text{m}^2}$$

$$n_{Z-38} = 80,41 * 16 = 1287,6\text{Stk}$$

$$n_{B-38} = 1287,6 * 1,05 = \underline{1351\text{Stk}}$$

$$n_{Z-25} = 30,29 * 10,5 = 318\text{Stk}$$

$$n_{B-25} = 318 * 1,05 = \underline{334\text{Stk}}$$