

VÝPOČET POŽIARNE OTVORENÝCH PLOCH

Veľkosti požiarne otvorených plôch je určený podľa STN 92 0201-4

$$S_{po} = S_{po1} + k_{10} \cdot S_{po2} + k_{11} \cdot S_{po3} \quad (1)$$

/ resp.

$$S_{po} = \frac{S_{po1}}{k_{11}} + \frac{k_{10} \cdot S_{po2}}{k_{11}} + S_{po3} \quad (2)$$

Podiel požiarne otvorených plôch k ploche obvodovej steny v % určený podľa STN 92 0201-4

$$p_o = \frac{S_{po}}{S_p} \cdot 100$$

Požiarny úsek:      Strana stavby:

|          |             |   |  |
|----------|-------------|---|--|
| N1.01/N2 | Predná      | $S_{po} = S_{po1} + k_{10} \cdot S_{po2} + k_{11} \cdot S_{po3}$<br><br>$S_{po} = 17,775 + 0,577 \cdot 68,475 + 0,835 \cdot 0$<br><br>$S_{po} = 57,28508 \quad m^2$<br><br>$p_o = \frac{57,29}{86,25} \cdot 100$<br><br>$p_o = 66 \quad \%$ | $S_{po1} = 17,775 \quad m^2$<br>$k_{10} = 0,577$<br>$S_{po2} = 68,475 \quad m^2$<br>$k_{11} = 0,835$<br>$S_{po3} = 0 \quad m^2$<br>$S_{po} = 57,29 \quad m^2$<br>$S_p = 86,25 \quad m^2$ |
|          | Bočná ľavá  | $S_{po} = S_{po1} + k_{10} \cdot S_{po2} + k_{11} \cdot S_{po3}$<br><br>$S_{po} = 28,72 + 0,577 \cdot 77,18 + 0,835 \cdot 0$<br><br>$S_{po} = 73,25286 \quad m^2$<br><br>$p_o = \frac{73,25}{105,9} \cdot 100$<br><br>$p_o = 69 \quad \%$   | $S_{po1} = 28,72 \quad m^2$<br>$k_{10} = 0,577$<br>$S_{po2} = 77,18 \quad m^2$<br>$k_{11} = 0,835$<br>$S_{po3} = 0 \quad m^2$<br>$S_{po} = 73,25 \quad m^2$<br>$S_p = 105,9 \quad m^2$   |
|          | Bočná pravá | $S_{po} = S_{po1} + k_{10} \cdot S_{po2} + k_{11} \cdot S_{po3}$<br><br>$S_{po} = 38,805 + 0,577 \cdot 68,595 + 0,77 \cdot 0$<br><br>$S_{po} = 78,38432 \quad m^2$<br><br>$p_o = \frac{78,38}{107,4} \cdot 100$<br><br>$p_o = 73 \quad \%$  | $S_{po1} = 38,805 \quad m^2$<br>$k_{10} = 0,577$<br>$S_{po2} = 68,595 \quad m^2$<br>$k_{11} = 0,77$<br>$S_{po3} = 0 \quad m^2$<br>$S_{po} = 78,38 \quad m^2$<br>$S_p = 107,4 \quad m^2$  |
|          | Bočná ľavá  | $S_{po} = S_{po1} + k_{10} \cdot S_{po2} + k_{11} \cdot S_{po3}$<br><br>$S_{po} = 11,2 + 0,612 \cdot 36,8 + 0,886 \cdot 0$<br><br>$S_{po} = 33,7216 \quad m^2$<br><br>$p_o = \frac{33,72}{48} \cdot 100$<br><br>$p_o = 70 \quad \%$         | $S_{po1} = 11,2 \quad m^2$<br>$k_{10} = 0,612$<br>$S_{po2} = 36,8 \quad m^2$<br>$k_{11} = 0,886$<br>$S_{po3} = 0 \quad m^2$<br>$S_{po} = 33,72 \quad m^2$<br>$S_p = 48 \quad m^2$        |

|       |   |  |
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| N2.01 | <p>Bočná pravá</p> $S_{\rho o} = S_{\rho o1} + k_{10} \cdot S_{\rho o2} + k_{11} \cdot S_{\rho o3}$ $S_{\rho o} = 11 + 0,612 \cdot 37 + 0,77 \cdot 0$ $S_{\rho o} = 33,644 \quad \text{m}^2$ $p_o = \frac{33,64}{48} \cdot 100$ $p_o = 70 \quad \%$ | $S_{\rho o1} = 11 \quad \text{m}^2$ $k_{10} = 0,612$ $S_{\rho o2} = 37 \quad \text{m}^2$ $k_{11} = 0,77$ $S_{\rho o3} = 0 \quad \text{m}^2$ $S_{\rho o} = 33,64 \quad \text{m}^2$ $S_p = 48 \quad \text{m}^2$  |
|       | <p>Zadná</p> $S_{\rho o} = S_{\rho o1} + k_{10} \cdot S_{\rho o2} + k_{11} \cdot S_{\rho o3}$ $S_{\rho o} = 40 + 0,612 \cdot 95 + 0,77 \cdot 0$ $S_{\rho o} = 98,14 \quad \text{m}^2$ $p_o = \frac{98,14}{135} \cdot 100$ $p_o = 73 \quad \%$       | $S_{\rho o1} = 40 \quad \text{m}^2$ $k_{10} = 0,612$ $S_{\rho o2} = 95 \quad \text{m}^2$ $k_{11} = 0,77$ $S_{\rho o3} = 0 \quad \text{m}^2$ $S_{\rho o} = 98,14 \quad \text{m}^2$ $S_p = 135 \quad \text{m}^2$ |