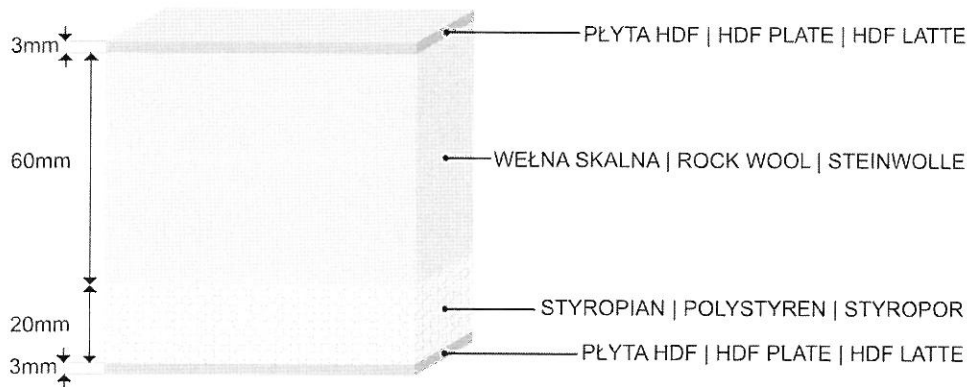


DECLARATION

Thermal transmittance for the center of the trap door in all fire resistant loft ladders with the trap door thickness of 86mm.



Thermal transmittance factor of the polystyrene- foamy polystyrene

$$\lambda_{\text{polystyrene}} = 0,04 \text{ W/(mK)}$$

Thermal transmittance factor of the hard fibreboard

$$\lambda_{\text{hdf}} = 0,18 \text{ W/(m}\cdot\text{K)}$$

Thermal transmittance factor of the mineral wool

$$\lambda_{\text{mineral wool}} = 0,036 \text{ W/(m}\cdot\text{K)}$$

Thermal resistance for the partition

- for the polystyrene

$$R_{\text{polystyrene}} = \frac{d_{\text{polystyrene}}}{\lambda_{\text{polystyrene}}} = \frac{0,02}{0,04} = 0,5 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

- for the fibreboard

$$R_{\text{hdf}} = \frac{d_{\text{hdf}}}{\lambda_{\text{hdf}}} = \frac{0,003}{0,18} = 0,017 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

- for the mineral wool

$$R_{\text{mineral wool}} = \frac{d_{\text{mineral wool}}}{\lambda_{\text{mineral wool}}} = \frac{0,06}{0,036} = 1,667 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

Opory przejmwania ciepła:

$$R_{\text{si}} = 0,10 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

$$R_{\text{se}} = 0,04 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

Thermal transmittance factor k_0 for the partition wall without thermal bridges

$$k_0 = \frac{1}{R_{\text{si}} + R_{\text{hdf}} + R_{\text{wełny min.}} + R_{\text{styropianu}} + R_{\text{hdf}} + R_{\text{se}}} = \frac{1}{2,324} = 0,43 \frac{\text{W}}{\text{m}^2 \cdot \text{K}}$$

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