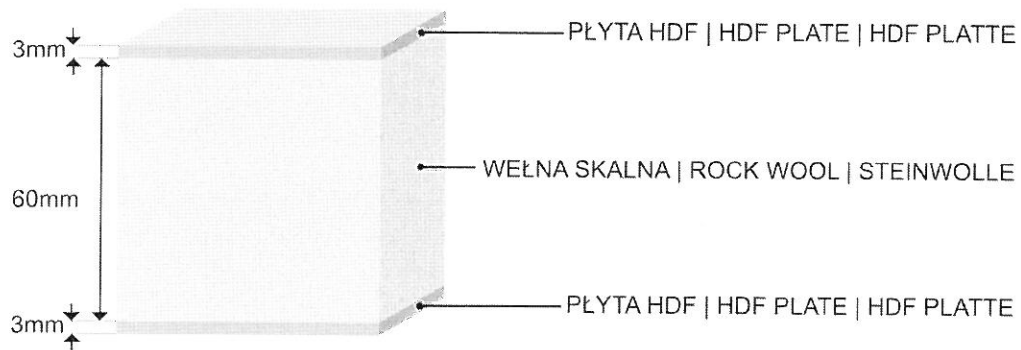


DECLARATION

Thermal transmittance for the center of the trap door in all fire resistant loft ladders with the trap door thickness of 66mm.



Thermal transmittance factor of the hard fibreboard

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

Thermal transmittance factor of the mineral wool

$$\lambda_{weln\ y\ min.}=0,036 \text{ W}/(\text{m}\cdot\text{K})$$

Thermal resistance for the partition

- for the fibreboard

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

- or the mineral wool

$$R_{weln\ y\ min.} = \frac{d_{weln\ y\ min.}}{\lambda_{weln\ y\ min.}} = \frac{0,06}{0,036} = 1,667 \frac{\text{m}^2 \cdot \text{K}}{\text{W}}$$

Thermal resistance-absorption:

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

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

Thermal transmittance factor k_0 for the partition wall without thermal bridges

$$U = \frac{1}{R_{si} + R_{hdf} + R_{mineral\ wool} + R_{hdf} + R_{se}} = \frac{1}{1,824} = 0,54 \frac{\text{W}}{(\text{m}^2 \cdot \text{K})}$$

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