Numerical analysis of the thermal behaviour of RHTNEP roof hatch

Using EN ISO 10077: Thermal performance of windows, doors and shutters - Calculation of thermal transmittance

- Part 1 (ISO 10077-1:2017): General
- Part 2 (ISO 10077-2:2017): Numerical method for frames

SUMMARY

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3.1.3. Materials

As described in Chapter 2.3. Additional material properties provided by the customer:

- EPDM λ_{EPDM} = 0,06 W/mK

An equivalent thermal conductivity was calculated for air filled cavities according to ISO 10077-2 / Clause 6

3.2. Results of the analysis

Thermal transmittance of the hatch: U_W = **0,202 W/m²K**

Thermal resistance of the window: R_W = **4,956 m²K/W**

Budapest, 13.01.2025

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