

Evidence of Performance

Calculation of thermal transmittance

Test Report
No. 16-002433-PR01
(PB-K20-06-en-01)



Client
ALUMIL S.A.
Industrial Area
61100 Kilkis
Greece

Basis *)
EN ISO 10077-2:2012-02
EN ISO 6946:2007-12
SG 06-verpflichtend
NB-CPD/SG06/11/083 2011-09

Product
Thermal break metal profiles
Profile combination: casement-frame, frame,
casement-threshold, casement-mullion

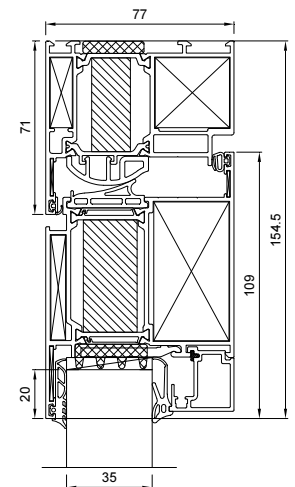
Designation SD77 Smart Doors

Performance-relevant product details
Material Aluminium alloys; Surface treatment powder coated or painted; View width B in mm 71 to 226; Thermal break; Material Polyamide 6.6 with 25% glass fibre; Surface in thermal break untreated; Inlay; Material "Kingspan Kooltherm K3"; Thermal conductivity in W/(mK) 0.021; Inlay foam in glazing rebate / to structure; Material "NO-MATEC XPE Profiles"; Thermal conductivity in W/(mK) 0.038; Casement; width x thickness in mm 76 to 129.5 x 77; Frame; width x thickness in mm 70 to 113 x 77; Threshold; width x thickness in mm 22 x 77; Mullion; width x thickness in mm 56 to 93 x 68 to 77; Panel; Construction in mm 3/40/2 to 3/72/2; Material Polyurethane rigid foam / "Neopor Plus EPS 100 THP"; Thermal conductivity in W/(mK) 0.024 / 0.030; Replacement panel; Edge cover in mm 0 to 22; Thickness in mm 35 to 77

Special features -/-

Representation

Test specimen PK01



Further drawings see annex.

Instructions for use

The results obtained can be used as evidence in accordance with the above basis.

Results

Calculation of thermal transmittance according to
EN ISO 10077-2:2012-02 and EN ISO 6946:2007-12



$$U_f = 0.9 \text{ to } 1.9 \text{ W/(m}^2\text{K)}$$

$$U_p = 0.32 \text{ to } 0.67 \text{ W/(m}^2\text{K)}$$

$$\Psi_p = 0.0020 \text{ to } 0.026 \text{ W/(mK)}$$

ift Rosenheim
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Validity

The data and results given relate solely to the tested and described specimen. This test does not allow any statement to be made on further characteristics of the present structure regarding performance and quality.

Notes on publication

The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies. The document may only be published in full.

Contents

The report contains a total of 24 page/s and annexe (24 pages).