

Evidence of Performance

Calculation of thermal transmittance



Test Report
No. 14-000860-PR01
(PB-K20-06-en-01)

Client ELVIAL S.A. Aluminium Extrusion
25th Km national road Thessaloniki
61100 Kilkis
Greece

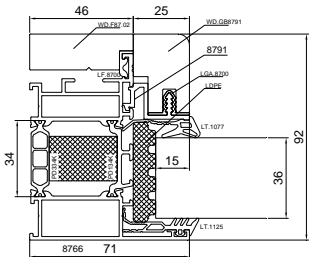
Basis *)
EN ISO 10077-2:2012-02
SG 06-verpflichtend
NB-CPD/SG06/11/083 2011-09
*) Correspond/s to the national standard/s
(e.g. DIN EN)

Product Thermal insulated metal profiles with timber facing
profile (inside)
Profile combinations: frame, casement-frame,
casement-overlap-casement, casement-overlap

Representation
Specimen 01

Designation System: Elvial XCLUSIVE 87

Performance-relevant product details Material Aluminium alloy; Surface treatment painted / powder-coated / anodized; Facing profile (inside); Material Lodgepole pine (PNCN); Thickness in mm 16 – 25; View width B in mm 71 – 164,5; Thermal break; Material Polyamide 6.6 with 25% glass fibre; Type of thermal break continuous bar / hollow chamber bar; Height of bars in mm 34; Distance of metal shells d in mm 29; Surface in thermal break untreated; Infill foam for thermal break; Material Expanded polystyrene "Monopoly EPS 200"; Thermal conductivity in W/(m K) 0,042; Infill foam for glazing rebate; Material Polyethylene foam; Replacement panel; Edge in mm 15; Thickness in mm 36



further specimens see annex

Special features -

Instructions for use

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

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 8 page/s and annex (4 page/s).

Results

Calculation of thermal transmittance according to
EN ISO 10077-2:2012-02



$$U_f = 1,3 - 1,6 \text{ W}/(\text{m}^2\text{K})$$

ift Rosenheim
15.05.2014

Konrad Huber, Dipl.-Ing. (FH)
Head of Testing Department
Building Physics

Maurice Mayer, Dipl.-Ing. (FH)
Operating Testing Officer
Computerassisted Simulation