Evidence of Performance
Thermal transmittance

Test report 432 31927/1e
Translation of Test Report 432 31927/1 dated 7 August 2007

Client
ETEM S. A.
light metals industry
1 Iroon Polytechniou Str
19018 Magoula
Greece

Product
Thermal break metal profiles used in façade systems

Designation
E 85 2 SIDED STRUCTURAL GLAZING

Installation depth:
96 mm to 267 mm

Projected width:
50 mm

Material
Aluminium profile with thermal break

Structural profile sections / Cover plates:
Powder coated / painted

Finishes
Type: Isolator without overlaps, continuous
Material: Rigid PVC, screw fixings (stainless steel, Ø 5.5 mm) spaced at 300 mm, washers with rubber layer
Metal surfaces of thermal break / Pressure plates:
anodised / painted / powder-coated

Thermal break / thermal barrier:
Thickness: 27 mm, 31 mm

Infill panel:
Installation depth: 15 mm

Special features
External butyl strip

Thermal transmittance

\[ U_f = 2.1 - 2.6 \ \text{W}/(\text{m}^2 \cdot \text{K}) \]

The specified range of values refers to the profile combinations listed in tables 6 and 7 of this report. Values for other profile combinations of the system are determined using the linear regression in accordance with tables 8 and 9.

Linear thermal transmittance

\[ \Psi = 0.21 \ \text{W}/(\text{m} \cdot \text{K}) \] (aluminium spacer)

Linear thermal transmittance \( \Psi \) includes thermal transmittance of the edge seal with aluminium spacer for one glazing rebate area

ift Rosenheim
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Basis
ift Guideline WA-03/3 (February 2005) „Verfahren zur Ermittlung von \( U_f \)-Werten für thermisch getrennte Metalloflächen (Determination of the \( U_f \)-values of thermal break metal profiles used in façade systems)


Representation
See Annex

Instructions for use
This test report serves to demonstrate the thermal transmittance \( U_f \) of the tested system.

Validity
The data and results given refer solely to the described and tested specimen.
Testing the thermal transmittance 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 cover sheet can be used as abstract.

Contents
The report comprises a total of 23 pages.

1 Object
2 Procedure
3 Detailed results
Annex