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 facade 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
Finishes	Structural profile sections / Cover plates: Powder coated / painted
Thermal break / thermal barrier	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
Infill panel	Thickness: 27 mm, 31 mm Installation depth: 15 mm
Special features	External butyl strip

Thermal transmittance

$U_f = 2.1 – 2.6$ W/(m² · 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

$\Psi = 0.21$ W/(m · K)
(aluminium spacer)

Linear thermal transmittance Ψ includes thermal transmittance of the edge seal with aluminium spacer for one glazing rebate area

ift Rosenheim
20 September 2007

Konrad Huber, Dipl.-Ing. (FH)
Assistant Head of Testing Department Thermal Insulation
ift Centre Glass, Building Materials & Building Physics

Klaus Specht, Dipl.-Ing. (FH)
Test Engineer
ift Centre Glass, Building Materials & Building Physics

Basis

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

EN ISO 10077-2 : 2003-10 Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames

EN 12412-2 : 2003-07 Thermal performance of windows doors and shutters - Determination of thermal transmittance by hot box method - Part 2: Frame

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

ift Rosenheim GmbH
Geschäftsführer:
Dipl.-Ing. (FH) Ulrich Sieberath
Dr. Jochen Peichl

Theodor-Gietl-Str. 7 - 9
D-83026 Rosenheim
Tel.: +49 (0)8031/261-0
Fax: +49 (0)8031/261-290
www.ift-rosenheim.de

Sitz: 83026 Rosenheim
AG Traunstein, HRB 14763
Sparkasse Rosenheim
Kto. 3822
BLZ 711 500 00

Notified Body Nr.: 0757
Anerkannte PÜZ-Stelle: BAY 18
DAP-PL-0808.99
DAP-ZE-2288.00
TGA-ZM-16-93-00
TGA-ZM-16-93-80