**Evidence of Performance**

**Thermal transmittance**

**Test report 432 31927/4e**

Translation of Test Report 432 31927/4 dated 7 August 2007

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**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 WITH ADDITIONAL THERMAL INSULATION
SPACER ET.080173.00

**Installation depth:** 74 mm to 274 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
Inserts: -
Metal surfaces of thermal break / Pressure plates: anodised / painted / powder-coated

**Infill panel**

Thickness: 19 mm, 34 mm
Installation depth: 15 mm

**Special features**

Isolator ET.080173.00 in thermal break,
Plug-on profiles / spacer profiles on internal section 6 mm between internal section and glazing gasket
External butyl strip

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**Thermal transmittance**

\[ U_f = 1.6 - 2.3 \text{ W/(m}^2\cdot\text{K)} \]

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.

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IFT Rosenheim
20 September 2007

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**Basis**

IFT Guideline WA-03/3
(February 2005) „Verfahren zur Ermittlung von \( U_f \)-Werten für thermisch getrennte Metallprofile aus Fassadensystemen” (Determination of the \( U_f \)-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

**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 26 pages.
1. Object
2. Procedure
3. Detailed results
   Annex