# **Evidence of Performance**

Thermal transmittance

Test Report 432 35908/1e

Translation of Test Report 432 35908/1 dated 15 September 2008



Client

# **ALUMIL - MILONAS ALUMINIUM INDUSTRY S. A.**

Industrial Area

61100 Kilkis Greece

		Thermal break metal profiles originating from facade sys-
Pro	duct	tems
Doolana	n+i.o.n	M50 Energy

Designation M50 Energy

Installation depth approx. 106 mm to 255 mm

Projected width 50 mm

Material Aluminium profile with thermal break

Structural profile sections/cover cap:

Surface powder coated/coated

Type: continuous shapes

Material: uPVC and polyethylene foam (density: 25 - 35 kg/m<sup>3</sup>) / connections (stainless steel, Ø 5.5 mm) with

grommets (Ø 16 mm) at intervals of 200 mm

Metal surfaces of thermal break/pressure plate: plate fin-

ished, untreated surfaces Thickness: 20 - 40 mm

Installation depth: 15 mm

Special features

Thermal break

/ thermal barrier

## Thermal transmittance



 $U_{\rm t.m} = 1.0 - 1.8 \text{ W/(m}^2 \cdot \text{K)} *$ 

The specified range of values refers to the profile combinations listed in table 8 and 9 of this report. The  $U_{\rm t.m}$ -values for other profile combinations of the system are determined using the linear regression in accordance with table 10 and 11. osenhein

Anerkannte Prüfsteile im bauaufsichtlichen Verfahren zur Bestimmung des Wärmedurchgangs-

ift Rosenheim 08 December 2008

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### Basis

ift Guideline WA-03/3 (2005) "Verfahren zur Ermittlung von U<sub>f</sub> -Werten für thermisch getrennte Metallprofile aus Fassadensystemen"

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: Frames

# Representation

see Annex

#### Instructions for use

This test report serves to demonstrate the thermal transmittance  $U_{\rm t,m}$  of the tested profile system

### Validity

The data and results given relate solely to the tested and described profile system.

Determination of thermal transmittance does not allow any statement to be made on any further characteristics of the construction submitted regarding performance and quality.

### **Publishing notes**

The ift-Guidance Sheet 'Conditions and Guidance for the use of ift-test reports

The cover sheet can be used as abstract.

## Contents

The test report comprises a total of 23 pages

- Object
- Procedure
- Detailed results Annex

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