

Classification Report

Energy Saving and Heat Retention

Test report 403 25652/1e *)



Customer **ELVIAL S.A.**
Aluminium Extrusion
26th km national road

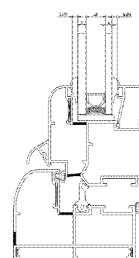
GR-61100 Thessaloniki-Kilkis

Basis:

EN ISO 12567-1 : 2000-09
Determination of thermal transmittance by hot box method – Part 1: Complete windows and doors
Corresponds to the national version of DIN EN ISO.

Product	Single-Window
System designation	el-2000 Benefit
External Dimensions (W x H)	800 mm x 1000 mm
(Frame) Material	Aluminium profile
Type of Opening	Turn Insulating glass unit, Single-Window Construction: <u>5/12/4</u> mm, Gas filling: Air Coating: no IR reflecting coating
Glazing	spacer aluminium
Specials	*) This test report is a translation of the test report 403 25652/1 dated 22 October 2002.

Representation



Instructions for use

This test report may be used to classify the thermal transmittance U_w .

Validity

The data and results given relate solely to the described, tested object.

Testing the thermal transmittance does not allow any statement to be made on further characteristics of the present structure which could define performance and quality.

Thermal transmittance



$$U_w = 5,0 \text{ W}/(\text{m}^2 \cdot \text{K})$$

Notes on publication

The ift Notice "Notes on the use of ift Test Reports" applies.

The cover sheet can be used as a summary.

Contents

The report contains 6 pages in total

- 1 Object
- 2 Procedure
- 3 Detailed results

ift Rosenheim
27. November 2002

Dr. Helmut Hohenstein
Director



pp. Hans-Jürgen Hartmann
Head of the Heat Insulation & Energy Technology Division

Classification report

Sound reduction of building elements

Test report 161 25651/3.0.0e^{*)}



Customer **ELVIAL S.A.**
Aluminium Extrusion
26th km national road

61100 Thessaloniki-Kilkis

Foundation

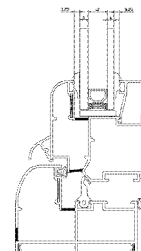
EN 20140-3 : 1995-01
Laboratory measurements of
airborne sound insulation of
building elements

EN ISO 717-1 : 1996-12
Acoustics – Rating of sound in-
sulation in buildings and of
building elements - Part 1: Air-
borne sound reduction

Similar to DIN EN 20140-3 and
DIN EN ISO 717-1

Specimen	Single-Window
System designation	el-2000 Benefit
Size (W x H)	800 mm x 1000 mm
Material	Aluminium profile
Opening	Turn
Glazing	5/12/4 mm
Specials	*) This test report is a translation of test report no. 161 25651/3.0.0 of 23 September 2002

Cross-section



Purpose

This test report prove the sound reduction for a building element.

Validity

The values given in this test report are only valid for the tested specimen described.

General conclusions for the construction and other functional details may not be drawn from this test report.

Information for use

Regulations for the use of test reports are given in the enclosed information sheet „Conditions and information for use of ift test reports for publication and commercial purposes“.

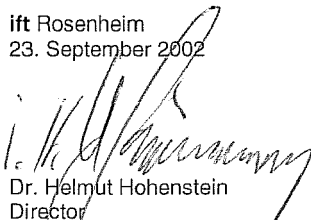
This report is a translation of the test report 161 25651/3.0.0 of 23. September 2002.

Weighted sound reduction index R_w
Spektrum-Adaption terms C and C_{tr}



$R_w (C; C_{tr}) = 36 (-2;-6) \text{ dB}$

ift Rosenheim
23. September 2002


Dr. Helmut Hohenstein
Director

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Contents

This test report includes 6 pages

- 1 Test specimen
 - 2 Test procedure
 - 3 Test results
- Data sheet (1 page)



DAP-PL-0808.01
DAP-ZE-2288.00
TGA-ZM-16-93-00
TGA-ZM-16-93-60

Nachweis
Luftdurchlässigkeit
Schlagregendichtheit
Widerstandsfähigkeit bei Windlast

Prüfbericht 102 25648



Auftraggeber **ELVIAL S.A.**
Aluminium Extrusion
26th km national road

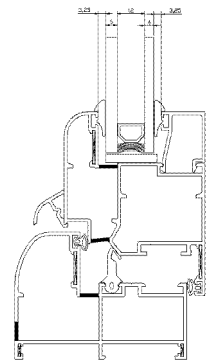
61100 Thessaloniki - Kilkis

Grundlagen

EN 1026 : 2000 – 06
EN 1027 : 2000 – 06
EN 12211 : 2000 – 06

EN 12207 : 1999 - 11
EN 12208 : 1999 - 11
EN 12210 : 1999 - 11

Schematische Darstellung



Produkt/Bauteil	Einfachfenster
Bezeichnung	el-2000 Benefit
Außenmaß (B x H)	800 mm x 1000 mm
(Rahmen) Material	Aluminium-Profil
Beschlag	Dreh

Verwendungshinweise

Dieser Prüfbericht dient zum Nachweis der Eigenschaften für Fenster nach prEN 14351.

Gültigkeit

Die Daten und Ergebnisse beziehen sich ausschließlich auf den geprüften und beschriebenen Probekörper.

Eine Übertragung ist möglich gemäß prEN 14351 Tabelle E.1 bei ähnlichem Format und Einhaltung des Flügelgewichts.

Witterungs- und Alterungsercheinungen wurden nicht berücksichtigt.

Veröffentlichungshinweise

Es gilt das ift-Merkblatt „Hinweise zur Benutzung von ift-Prüfberichten“.

Das Deckblatt kann als Kurzfassung verwendet werden.

Luftdurchlässigkeit



Klasse 4

Schlagregendichtheit



Klasse 3A

Widerstandsfähigkeit bei Windlast



Klasse C4

ift Rosenheim
11. November 2002

Dr. Helmut Hohenstein
Institutsleiter

i.V. Florian Sewald
Leiter Prüffeld Fenster & Fassaden

Inhalt

Der Nachweis umfasst insgesamt 7 Seiten

- 1 Gegenstand
- 2 Durchführung
- 3 Einzelergebnisse