

THERMAL STUDY REPORT N°BV16-1235

3. RESULTS

3.1. Thermal transmittance of opaque panel U_p

	U_p (W/(m ² .K))
Composition of the opaque panel : <i>Internal facing 1,5 mm aluminum</i> <i>Extruded polystyrene insulation 47,5 mm</i> <i>External facing 1,5 mm aluminum</i>	0,75

3.2. Thermal transmittance of door frame U_f

Door frame	Projected width of the frame section (m)	U_f (W/(m ² .K))
Threshold	0,050	9,6
Top and side edges	0,072	3,6

3.3. Geometrical data

A_p (m ²)	1,8890
A_f (m ²)	0,4210
A_g (m ²)	0
l_g (m)	0

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3.4. Thermal transmittance of door U_D

Designation	U_p (W/(m ² .K))	U_r W/(m ² .K)	Overall dimensions 2,10 m (H) x 1,10 m (L) Thermal transmittance coefficient U_D en W/(m ² .K)
Monoblock door	0,75	4,3	1,4

Number	17-002327-PR02 (NW-C01-0203-en-01)
Owner	TEHNI A.E. 2nd km Xanthi - Pigadia 67100 Xanthi Greece
Product	Single external pedestrian doorset
Designation	System: TEHNI ES 40 Shipping name: TLS 50 Door
Details	Material Aluminium system with thermal break; Overall dimensions (W x H) 1100 x 2100 ; Closing condition: closed, fastened, latched and locked; Threshold: Designation E4800; System TEHNI ES 40; Material Aluminium system with thermal break; Lock: Designation 2089328, STV-F2060/50 92/8 M2 RS MC, 3 points Hook Lock
Special features	
Result	

Air permeability according to EN 12207:2016-12



Class: 2

Resistance to wind load according to EN 12210:2016-03



Class: C3/B3

Watertightness according to EN 12208:1999-11



Class: 1A

Basis *)

EN 14351-1:2006+A2:2016-09
) and corresponding national versions
e.g. DIN EN)

Test report: 17-002327-PR02 PB-C01-0203-en-01

Representation



Instructions for use

The Evidence ("Nachweis") can be used for preparing the Declaration of Performance in accordance with the Construction Products Regulation 305/2011/EU. The results obtained apply to the direct field of application determined in Annex E of EN 14351-1.

Validity

There is no time limit.
When using this document the up-to-dateness of above basis and the conformity of the product have to be observed.

Notes on publication

The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

ift Rosenheim
10.10.2017



Thomas Stefan, Dipl.-Ing. (FH)
Head of Testing Department
Building Component Testing



Frank Gruber
Operating Testing Officer
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Identity-Check



www.ift-rosenheim.de/ift-geprueft
ID: 029-637A5



TNO Quality Services BV
P.O. Box 6235
5600 HE Eindhoven
The Netherlands
Lab.no. 1750

Certificate

EN 1279-2

Glass Moisture Penetration

In accordance with TNO Quality Services B, it is hereby certified that

TEHNI PANTELOS S.A.
2nd klm Kimerion - Pigadion
Xanhti
P.O. Box 67100
GREECE

applies a management system in line with the above standard
for the following scope

**Manufacturing of Double Glasses, according to EN 1279-2
with Bostik Evo-Stik HIFLO sealant**

Date June, 21, 2007

Signature: M.J.R. Luppens
Project leader

Signature: A.J. Piers
Programme leader

Evidence of Performance

Burglar resistance



Test Report

No. 16-003711-PR02

(PB-C01-05-en-02)

Client **TEHNI A.E.**
2nd km Xanthi - Pigadia
67100 Xanthi
Greece

Product	Burglar resistant Aluminium doorset RC 1
Designation	TLS 50 Door
Overall dimensions (W x H)	1,100 mm x 2,100 mm
(Frame) Material, System	Aluminium, powder coated, TEHNI ES 40
Attack side	Closing face according to EN 12519
Type of opening	Single leaf doorset
Glazing	without glazing
Hardware	3 points Hook Lock 2089328, STV-F2060/50 92/8 M2 RS MC, Wink Haus, double profile cylinder Series R6, Art 88. - 82R6, ISEO SERRATURE S.p.A. as per EN 1303 on position 7 class 5 and on position 8 class 2, long plate Europa FS SK3 / Erich Dieckmann GmbH as per DIN EN 1906 class 3 on position 7, 3 pieces of two piece hinges MBT 100 / MAKEDONIKI PANIDES, 2 pieces of wedge locking protection STV-SB F 20 - 19 MV MC-2524078 from Wink Haus
Installation	As per installation instructions by the client TEHNI A.E.
Special features	-/-

Basis

DIN EN 1627 : 2011
Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification

DIN EN 1628 : 2011

DIN EN 1629 : 2011

DIN EN 1630 : 2011

Replaced Test Report No. 16-003711-PR02 (PB-C01-05-en-01) dated 28.06.2017

Representation



Instructions for use

This test report serves to demonstrate the burglar resistance

Validity

The data and results refer solely to the tested and described specimen. The burglar resistance test does not allow any statement to be made on any further characteristics of the present structure regarding performance and quality.

In deviation from the tested design the following size modifications are permitted:
in width +10% and -20%
in height +10% and -20%

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 an abstract.

Contents

The report contains a total of 22 pages

- 1 Object
- 2 Procedure
- 3 Detailed results
- Annex 1 (7 pages)
- Annex 2 (2 pages)
- Annex 3 (3 pages)

Burglar resistance



RC 1 / RC 1 N

ift Rosenheim

10.11.2017

Konrad Querengässer, Dipl.-Ing. (FH)
Head of Testing Department
Security/Safety Testing

Simon Stüer
Operating Testing Officer
Security/Safety Testing

Risultato delle prove fonometriche eseguite, il giorno 28/05/2021, per la determinazione del potere fonoisolante di un portoncino di sicurezza.

Le caratteristiche del campione sono riportate nella descrizione allegata, fornita dal Committente, che costituisce parte integrante del presente rapporto prova.

Committente : TEHNI S.A. - PANTELOS

DATI DICHIARATI

Nome commerciale : TLS50

STRUMENTI DI MISURA

Sono stati utilizzati strumenti di misura della Bruel & Kjaer, conformi alle norme IEC 61672-1

MODALITA' DI PROVA

Il campione in esame, di superficie 9,80 m², è stata realizzata tra due camere riverberanti: la prima, emittente, ha un volume di 60,6 m³ la seconda, ricevente, ha un volume di 69,2 m³.

La prova è stata eseguita secondo le modalità dettate dalla **UNI EN ISO 10140**

RISULTATO DELLE MISURE

Rilievi ambientali di laboratorio: 18 °C - 50 % U.R.

f Hz	L1	L2	T2	Ri	CR
100	78,5	56,1	0,47	12,2	10,0
125	84,3	60,3	0,93	16,8	13,0
160	84,3	63,8	1,95	16,5	16,0
200	92,1	66,8	1,55	20,3	19,0
250	90,8	67,5	1,66	18,6	22,0
315	92,2	66,1	2,69	23,5	25,0
400	91,3	64,8	3,01	24,4	28,0
500	93,4	66,1	3,40	25,7	29,0
630	90,9	62,6	3,58	27,0	30,0
800	90,9	61,9	3,90	28,0	31,0
1000	90,2	59,0	3,69	30,0	32,0
1250	90,3	57,3	3,56	31,6	33,0
1600	90,6	56,5	3,60	32,8	33,0
2000	90,9	56,0	3,20	33,1	33,0
2500	88,9	53,6	2,41	32,2	33,0
3150	90,4	60,5	2,05	26,1	33,0



Rw (C;C_{tr}) = 29,0 (-3;-6) dB (500 Hz UNI EN ISO 717-1)

LO SPERIMENTATORE

Geom. Danilo Massi

LA DIREZIONE

Dot. Ing. Camillo Orsi

