

# Evidence of Performance

## Calculation of thermal transmittance and temperature factor

### Test Report

No. 18-004080-PR01

(PB-E01-06-en-01)



**Client**  
ROLKA A.B.E.E.  
3 KM P.E.O. Katerinhs  
Thessalonikis T.TH. 148  
60100 Korinos Pierias  
Greece

**Basis \*)**  
EN ISO 10077-2:2017-07  
EN ISO 10077-2:2012-02  
SG 06-mandatory  
NB-CPD/SG06/11/0832011-09  
EN ISO 13788:2012-12

**Product** Roller shutter box

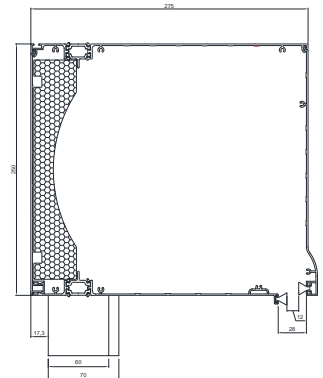
Designation Rolling shutter

Performance-relevant product details  
Material Aluminium alloys; Inlay material "Monopoly Graphite EPS 80"; Thermal conductivity in W/(mK) 0.031; View width in mm 250; Overall depth in mm 275; Outlet slit of the shutter box; Width  $e_{tot}$  in mm 28 (12 incl. brush seals); Air cavity in the shutter box slightly ventilated; Replacement panel; Material adiabatic / timber (500 kg/m<sup>3</sup>); Thickness in mm 60 / 70; Position, length  $l_{fr}$  in mm 17

Special features

\*)Correspond/s to the national standard/s (e.g. DIN EN)

### Representation



### Results

Calculation of thermal transmittance acc. to EN ISO 10077-2:2017-07 (Radiosity-Method)



$$U_{sb} = 1.3 \text{ W}/(\text{m}^2\text{K})$$

Calculation of temperature factor acc. to EN ISO 13788:2012-12 / EN ISO 10077-2:2017-07 (Radiosity-Method)



$$f_{Rsi} = 0.71$$

The temperature factor  $f_{Rsi}$  was calculated with an exterior temperature of -5°C and an interior temperature of 20°C.

### Instructions for use

The results obtained can be used as evidence in accordance with the above basis.

### Validity

The data and results given relate solely to the tested and described specimen. This test 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 contains a total of 5 page/s and annexe (5 pages).

ift Rosenheim

14.12.2018

Konrad Huber, Dipl.-Ing. (FH)  
Head of Testing Department  
Building Physics

Till Stübgen, Dipl.-Ing. (FH)  
Operating Testing Officer  
Building Physics