# ift-Nachweis

| | |
|---|---|
| **Number** | 20-002447-PR02 (NW-K20-06-en-01) |
| **Owner** | Europa Profil Aluminio S.A.<br>56th Klm National Highway<br>Athens - Lamia<br>32011 Innofita Viotas<br>Greece |
| **Product** | Metal profiles with thermal break |
| Designation | System: EOS 68 |
| Details | Material Aluminium alloy - painted - powder coated; Projected width from - to 92 mm - 246 mm; Structural depth 68 mm; Thickness of infill 36 mm; Edge cover of infill 14 mm; **Thermal break:** Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25); Surface treatment of profile slightly oxidised; Length of the bars 24 mm - 32 mm; Thickness of the bars 1.4 mm - 1.9 mm; Inlay material User specific – Neocoat EPS; Casement; Designation TH 58201 / TH 58206 / TH 58208 / TH 58213 / TH 58231; Inlay material User specific – Izoterm Plamaframe; Frame; Designation TH 58101 / TH 58102 / TH 58104 / TH 58108 / TH 58112; Threshold; Designation TH 58107; Casement overlap profile; Designation TH 58301 / TH 58331; Mullion; Designation TH 58405 / TH 58406; Additional profile; Designation TV 895 |
| Special features | |

**Result**

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

$$U_f = 1.3\ \text{W/(m²K)} – 2.0\ \text{W/(m²K)}$$

**ift** Rosenheim
22.02.2021

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

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

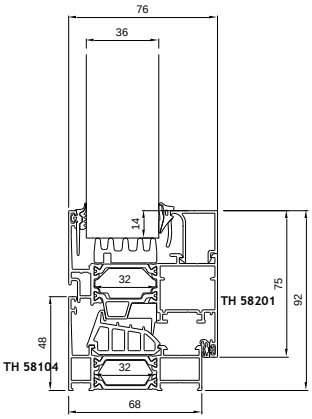
**Basis** *)

EN ISO 10077-2:2017-07
*) and corresponding national versions e.g. DIN EN)

Test report: 20-002447-PR02 PB-K20-06-en-01

**Representation**

Exemplary test specimen




**Instructions for use**

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

**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.

The data and detailed results given relate solely to the tested/described specimen.

This test does not allow any statement to be made on further characteristics of the present structure regarding performance and quality, in particular the effects of weathering and ageing.

**Notes on publication**

The ift-Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies. The document may only be published in full.

**Identity-Check**

www.ift-rosenheim.de/ift-geprueft
ID: 9A0-2F978



**ift** Rosenheim GmbH
Theodor-Gietl-Str. 7-9
D-83026 Rosenheim

Contact
Phone: +49 8031 261-0
Fax: +49 8031 261-290
www.ift-rosenheim.de

## Type list for calculations of thermal transmittance according to EN ISO 10077-2:2017-07

## Test result

Calculated thermal transmittance:

| Specimen No. | Description | Projected width $b_f$ in mm | Filling thickness $d_p$ in mm | $U_f$ [1] in W/(m²K) |
|---|---|---|---|---|
| -01 | TH 58104-TH 58201 | 92 | 36 | 1,9 |
| -02 | TH 58101-TH 58201 | 97 | 36 | 1,8 |
| -03 | TH 58102 | 58 | 36 | 1,5 |
| -04 | TH 58102-TH 58201 | 102 | 36 | 1,8 |
| -05 | TH 58102-TH 58213 | 110 | 36 | 1,9 |
| -06 | TH 58102-TH 58206 | 128 | 36 | 1,6 |
| -07 | TH 58102-TH 58208 | 131 | 36 | 1,7 |
| -08 | TH 58102-TH 58231 | 102 | 36 | 1,8 |
| -09 | TH 58112-TH 58206 | 150 | 36 | 1,5 |
| -10 | TH 58112-TH 58208 | 153 | 36 | 1,6 |
| -11 | TH 58201-TH 58107 | 84 | 36 | 2,0 |
| -12 | TH 58201-TH 58301-TH 58201 | 156 | 36 | 1,8 |
| -13 | TH 58206-TH 58301-TH 58206 | 208 | 36 | 1,6 |
| -14 | TH 58231-TH 58331-TH 58231 | 156 | 36 | 1,8 |
| -15 | TH 58405 | 78 | 36 | 1,4 |
| -16 | TH 58406 | 106 | 36 | 1,3 |
| -17 | TH 58201-TH 58405 | 122 | 36 | 1,7 |
| -18 | TH 58206-TH 58405 | 148 | 36 | 1,6 |
| -19 | TH 58201-TH 58406 | 150 | 36 | 1,6 |
| -20 | TH 58206-TH 58406 | 176 | 36 | 1,5 |
| -21 | TH 58201-TH 58405-TH 58201 | 166 | 36 | 1,8 |
| -22 | TH 58206-TH 58405-TH 58206 | 218 | 36 | 1,6 |
| -23 | TH 58201-TH 58406-TH 58201 | 194 | 36 | 1,7 |
| -24 | TH 58206-TH 58406-TH 58206 | 246 | 36 | 1,5 |
| -25 | TH 58201-TH58108-TV 895 | 102 | 36 | 1,8 |

[1] Calculated and rounded according to EN ISO 10077-2 using the radiosity method.

The calculated values of the thermal transmittance can be used for profiles made of aluminium with lacquered or powder coated surface and with an slightly oxidized surface in the thermal break. The emissivity of low emissive layers must be ensured by a factory production control.