

Evidence of Performance

Number	18-000714-PR02 (NW-K20-06-en-01)
Owner	ALUMINCO S.A. Megali Rahi 32011 Inofita Viotias Greece
Product	Metalprofiles with thermal break
Designation	System: W-4750
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 56 mm - 196 mm; Thickness of infill 44 mm / 84 mm; Edge cover of infill 12 mm / 14 mm; Thermal break; Material Polyamide 6.6 with 25 % glass fibre (PA 6.6 GF25); Length of bars 39 mm; Thickness of bars from - to 0.8 -1.7 mm; Surface treatment untreated; Inlay material in thermal break User specific – Neocoat EPS; Frame; Designation 4750-201 / 4750-215 / 4750-301 / 4750-239; Casement; Designation 4750-107 / 4750-105; Casement overlap profile; Designation 4750-502; Inlay material in glazing rebate User specific – PE foam 0,038; Mullion; Designation 4750-306 / 4750-303; Threshold; Designation 4750-920
Special features	Several test specimen with casement overlapping panel

Result

Calculation of thermal transmittance according to EN ISO 10077-2:2017-07



$$U_f = 1.2 \text{ W/(m}^2\text{K)} - 2.3 \text{ W/(m}^2\text{K)}$$

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

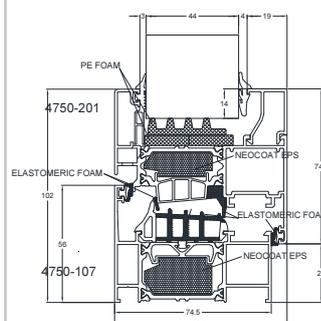


Till Stübgen, Dipl.-Ing. (FH)
Operating Testing Officer
Building Physics

Basis *)

Test report: 18-000714-PR02
(PB-K20-06-en-01)

Representation



Instructions for use

The results obtained can be used by the manufacturer for preparing the Declaration of Performance in accordance with the Construction Products Regulation 305/2011/EU. The provisions of the applicable product standard have to be observed.

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 results given relate solely to the tested/described specimen. This test/evaluation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality.

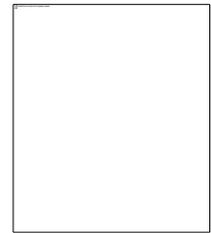
Notes on publication

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

Identity-Check



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ID: 9A5-36F33



Type list

Calculation of thermal transmittance according to EN ISO 10077-2:2017-07

Test results

Calculated thermal transmittance:

Sp-No.	Description	View width b_f in mm	Thickness of filling d_p in mm	U_f^* in $W/(m^2K)$
-01	4750-201_4750-107	102	44	1,3
-02	4750-201_4750-502_4750-201	153	44	1,4
-03	4750-215_4750-107	102	44	1,3
-04	4750-306	76	44	1,2
-05	4750-301_4750-201	122	44	1,4
-06	4750-107	56	44	1,2
-07	4750-201_4750-303_4750-201	196	44	1,3
-08	4750-239_4750-105	100	84	1,4
-09	4750-239_4750-920	80	84	2,3

*) Thermal transmittance calculated by using the radiosity-method. Rounded test results according to EN ISO 10077-2:2017-07.

The calculated values of the thermal transmittance can be used for profiles made of aluminium with lacquered or powder coated surface and with an untreated surface in the thermal break.