

Number	20-005154-PR01 (NW -02-K20-06-en-01)
Owner	ALCO Hellas S.A. Thesi Kirilo 19300 Aspropyrgos Greece
Product	Metal profiles with thermal break
Designation	System: Alousystem 21 SL
Details	Projected width from - to 92 mm - 114 mm ; Structural depth 91 mm ; Thickness of infill 22 mm ; Edge cover of infill 14 mm ; Thermal break: Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25) ; Surface treatment of profile untreated ; Length of the bars 20 mm - 22 mm ; Thickness of the bars 1.4 mm – 2.0 mm ; Casement; Designation TAS 1010 ; Frame; Designation TAS 1003 ; Additional profile; Designation AS 82
Special features	

Result

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



$$U_f = 3.8 \text{ W/(m}^2\text{K)} - 4.9 \text{ W/(m}^2\text{K)}$$

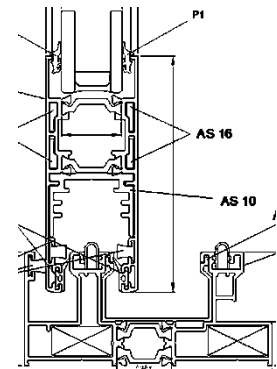
Basis *)

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

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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.

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

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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	Filling thickness d_p	U_f ¹⁾
		in mm	in mm	in $W/(m^2K)$
-03	TAS 1010 - TAS 1003 (internal)	114	23	3,8
-04	TAS 1010 - TAS 1003 (external)	114	23	3,9
-05	TAS 1010 - TAS 1010	92	23	4,9

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 untreated surface in the thermal break. The emissivity of low emissive layers must be ensured by a factory production control.