ift-Nachweis

Number	20-003465-PR05 (NW-K20-06-en-01)
Owner	ETEM COMMERCIAL AND INDUSTRIAL LIGHT METALS S.A. 1, Iroon Polytechniou Str., 190 18 Magoula Greece
Product	Metal profiles with thermal break
Designation	System: EW70
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 80 mm - 217 mm; Structural depth 70 mm; Thickness of infill 38 mm; Edge cover of infill 17 mm; **Thermal break:** Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25); Length of the bars 30 mm - 34 mm; Thickness of the bars 1.6 mm - 1.9 mm; Inlay material User specific - PIR35C5; Casement; Designation E4270200 / E4270201 / E4270220 / E4270221; Inlay material User specific - "Plamaframe"; Frame; Designation E4270100; Casement overlap profile; Designation E4270500 / E4270540; Mullion; Designation E4270300
Special features	

Result

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

$$U_f = 1.2\ \mathrm{W/(m^2K)} - 1.7\ \mathrm{W/(m^2K)}$$

ift Rosenheim
31.01.2023

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

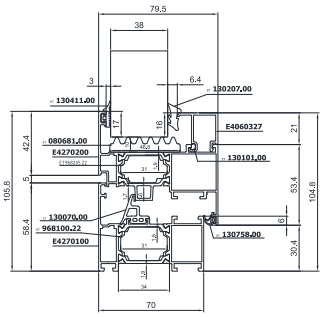
Till Stübben, Dipl.-Ing. (FH)
Operating Testing Officer
Building Physics

Basis *)

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

Test report: 20-003465-PR05 (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: A63-B764A

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	E4270220 - E4270540 - E4270220	168	38	1,6
-02	E4270221 - E4270540 - E4270221	210	38	1,4
-03	E4270300	80	38	1,2
-04	E4270200 - E4270100	106	38	1,7
-05	E4270201 - E4270100	127	38	1,5
-06	E4270200 - E4270300	128	38	1,5
-07	E4270201 - E4270300	149	38	1,4
-08	E4270200 - E4270300 - E4270200	175	38	1,6
-09	E4270201 - E4270300 - E4270201	217	38	1,5
-10	E4270200 - E4270500 - E4270200	156	38	1,7
-11	E4270201 - E4270500 - E4270201	198	38	1,5

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

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