

Number	20-002462-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: ED75
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 81 mm - 182 mm; Structural depth 75 mm; Thermal break: Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25); Surface treatment of profile slightly oxidised; Length of bars from - to 17 mm – 39 mm; Thickness of bars 2 x 0.8 mm; 1.0 mm / 1.2 mm; 1.8 mm; Inlay material User specific – „PIR35C5“; Casement; Designation E5275201 / E5275202 / E5275203 / E5275204; Thickness of infill 50 mm; Edge cover of infill 17 mm; Inlay material User specific – „PLAMAFRAME“; Frame; Designation E5275101; Mullion; Designation E-75300; Threshold; Designation E5275802 / E-75805 ; Additional profiles; Designation E5275803 / E5275804 / E5275804A

Special features

Result

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



$$U_f = 1.1 \text{ W/(m}^2\text{K)} - 2.9 \text{ W/(m}^2\text{K)}$$

ift Rosenheim

23.01.2021



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



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

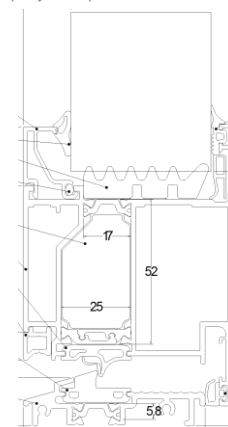
Basis *)

EN ISO 10077-2:2017-07

*) and corresponding national versions
e.g. DIN EN)Test report: 20-002462-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 test-ed/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: B2D-9A9D2

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/(m ² K)
-01	E5275201 - E5275101	154	50	2,0
-02	E5275201 - E5275802	108	50	2,7
-03	E5275201 - E-75805	108	50	2,6
-04	E5275201	108	50	2,6
-05	E-75300	81	50	1,1
-06	E5275201 - E5275202	182	50	2,0
-07	E5275203 - E5275101	154	50	1,9
-08	E5275203 - E5275802	108	50	2,4
-09	E5275203 - E-75805	108	50	2,8
-10	E5275203	108	50	2,9
-11	E5275203 - E5275204	182	50	1,9

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