

Number	24-001265-PR02 (NW-K20-06-en-01)
Owner	PROFILINK Ltd. 55 Nestor Abadzhiev Str. 4023 Plovdiv Bulgaria
Product	Metal profiles with thermal break
Designation	System: Orbis door system
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 105 mm - 204 mm; Structural depth 71 mm; Thickness of infill 44 mm / 48 mm; Edge cover of infill 18 mm; Thermal break: Material Low Lambda PA 66 GF25; Surface treatment of profile untreated; Length of the bars 18 mm - 26 mm; Thickness of the bars 1.3 mm - 1.8 mm; Inlay material User specific - "Kooltherm K15"; Casement; Designation 210002; Inlay material User specific - "Plamaframe"; Frame; Designation 210000; Threshold; Designation 210010; Casement overlap profile; Designation 210003
Special features	

Result

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



$$U_f = 1.8 \text{ W/(m}^2\text{K)} - 2.1 \text{ W/(m}^2\text{K)}$$

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Basis *)

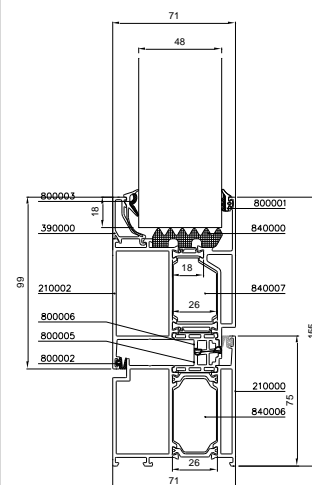
EN ISO 10077-2:2017-07

*) and corresponding national versions e.g. DIN EN)

Test report: 24-001265-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.

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ID: 4A4-B1510

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_r ¹⁾²⁾ in W/(m ² K)
-01	210002-210010	105	44	2,1
-02	210002-210003-210002	204	44	1,8
-03	210002-210000	155	48	1,8

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