ift-Nachweis



When using this document the upto-dateness of above basis and

the conformity of the product have

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

to be observed.

in full.

Number	20-000719-PR02 (NW 03-K20-06-en-01)	Basis *) EN ISO 10077-2:2017-07 *) and corresponding national versions e.g. DIN EN) Test report: 20-000719-PR02 (PB-K20-06-en-01) Representation Representative test specimen	
Owner	Europa Profil Aluminio S.A. 56th KIm National Highway Athens - Lamia 32011 Innofita Viotas Greece		
Product	Metal profiles with thermal break		
Designation	System: ESS 34	ти 12204	
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 42 mm - 182 mm; Structural depth 34 mm; Thermal break: Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25); Length of the bars in mm 12, 18, 20, 22, 24; Thickness of the bars in mm 1.4, 1.8 + 0.9; 2.0, 3.0; Surface treatment of profile Slight- ly oxidized; Casement; Designation TH 12204 / TV 12203 / TV 12205 / TV 12206; Thickness of infill 24 mm; Edge cover of infill 11 mm; Frame; Designation TH 12101 / TH 12102 / TH 12103 / TH 12104 / TH 12106 / TH 12109 / TH12113 / TH12114 / TH12116 / TH12117 / TH12118 / TV 2204; Additional pro- files; Designation TH 12310	Instructions for use The results obtained can be used as evidence in accordance with the above basis.	
Special features		Validity	
		There is no time limit.	

Result

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

 $U_f = 2.6 \text{ W/(m^2K)} - 4.2 \text{ W/(m^2K)}$

ift Rosenheim 30.04.2020

crucial Hul

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Testing and Calibration – EN ISO/IEC 17025 Inspection – EN ISO/IEC 17020 Product Certification – EN ISO/IEC 17065 Certification of Management Systems – EN ISO/IEC 17021





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	$U_{\mathrm{f}}^{(1)}$
		in mm	in mm	in W/(m²K)
-01	TH 12204 (internal)-TH 12113 (top)	122	24	4,2
-02	TH 12204 (internal)-TH 12113 (bottom)	109	24	3,1
-03	TH 12204 (external)-TH 12113 (top)	122	24	4,0
-04	TH 12204 (external)-TH 12113 (bottom)	109	24	3,4
-05	TH 12204 (internal)-TH 12114 (top)	122	24	4,2
-06	TH 12204 (internal)-TH 12114 (bottom)	109	24	3,3
-07	TH 12204 (centre)-TH 12114 (top)	122	24	3,6
-08	TH 12204 (centre)-TH 12114 (bottom)	109	24	2,9
-09	TH 12204 (external)-TH 12114 (top)	122	24	3,9
-10	TH 12204 (external)-TH 12114 (bottom)	109	24	3,4
-11	TH 12204 (internal)-TH 12118 (bottom)-TV 12203	110	24	2,6
-12	TH 12204 (internal)-TH 12117 (bottom)-TV 12205	110	24	2,6
-13	TH 12204 (internal)-TH 12116 (bottom)-TV 12205-TV 12203	110	24	2,6
-14	TH 12204-TH 12102 (bottom)	119	24	3,4
-15	TH 12204 (internal)-TH 12101 (bottom)	119	24	3,7
-16	TH 12204 (external)-TH 12101 (bottom)	119	24	3,7
-17	TH 12204 (internal)-TH 12106 (bottom)	119	24	3,7
-18	TH 12204 (centre)-TH 12106 (bottom)	119	24	3,3
-19	TH 12204 (external)-TH 12106 (bottom)	119	24	3,7
-20	TH 12204 (internal)-TH 12104 (bottom)-TV 12206	119	24	2,6
-21	TH 12204 (internal)-TH 12103 (bottom)-TV 12206-TV 12202	119	24	2,6
-22	TH 12204 (external)-TH 12109	119	24	3,1
-23	TH 12109	42	24	2,8
-24	TH 12204-TH 12204	89	24	3,1
-28	TH 12204-TH 12310-TH 12204	182	24	3,0
-29	TH 12204-TV 2204	110	24	2,9
-30	TH 12204-TV 12203-TV 2204	110	24	4,0
-31	TH 12204-TV 12206-TV 2204	110	24	2,6
-32	TH 12204-TV 12206-TV 12202-TV 2204	110	24	4,0
-33	TH 12204-TV 12205-TV 12203-TV 2204	110	24	3,9

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.