

Number	20-002462-PR01 (NW 01-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: ES70 (Glass thickness 28 mm)
Details	Material Aluminium alloy - painted - powder coated; Projected width from - to 48 mm - 220 mm; Structural depth 70 mm to 265 mm; Thermal break: Material Polyamide 6.6 with 25 % glass fibre (PA 66 GF25); Surface treatment of profile slightly oxidised; Length of the bars 16 mm - 28 mm; Thickness of bars 1.8 mm; Casement: Designation E6270201, E6270250, E6270350; Thickness of infill 28 mm; Edge cover of infill 14.7 mm to 15 mm; Frame: Designation E6270103, E6270104, E6270105, E6270130, E6270150; Additional profiles/ Adaptation profiles: Designation E6270107, E6270131, E6270250, E6270501, E6270510, E6270620, E6270650, E50901W1

Special features

Result

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



$$U_f = 2.3 \text{ W}/(\text{m}^2\text{K}) - 6.1 \text{ W}/(\text{m}^2\text{K})$$

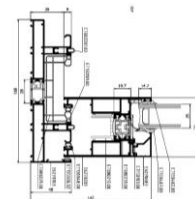
Basis *)

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

Test report: 20-002462-PR01 PB
01-K20-06-en-01

Representation

Representation of test specimen PK01



Further drawings see annex 1.

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. The classification will be valid as long as the product remains unchanged and the above bases have not changed.

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

23.02.2021



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



Stefan Junker, Dipl.-Ing. (FH)
Operating Testing Officer
Building Physics

Identity-Check



www.ift-rosenheim.de/ift-geprueft
ID: E0B-9B088

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 $W/(m^2K)$
-01	E6270103 / E6270201 / bottom / inner sash	142	28	3,1
-02	E6270103 / E6270201 / bottom / outer sash	142	28	3,5
-03	E6270103 / E6270201 / sideways / inner sash	142	28	3,0
-04	E6270103 / E6270201 / sideways / outer sash	142	28	3,2
-05	E6270103 / E6270201 / top / inner sash	142	28	3,1
-06	E6270103 / E6270201 / top / outer sash	142	28	3,3
-07	E6270201 / E6270201 / middlesection	113	28	3,8
-08	E6270250 / E6270250 / middlesection	54	28	5,9
-09	E6270104 / E6270201 / bottom / inner sash	142	28	3,1
-10	E6270104 / E6270201 / bottom / middle sash	142	28	3,6
-11	E6270104 / E6270201 / sideways / inner sash	142	28	3,0
-12	E6270104 / E6270201 / sideways / middle sash	142	28	3,5
-13	E6270104 / E6270201 / top / inner sash	142	28	3,1
-14	E6270104 / E6270201 / top / middle sash	142	28	3,6
-15	E6270105 / E6270201 / bottom / inner sash	142	28	3,0
-16	E6270105 / E6270201 / bottom / middle sash	142	28	2,7
-17	E6270105 / E6270201 / bottom / outer sash	142	28	3,4
-18	E6270105 / E6270201 / top / inner sash	142	28	3,1
-19	E6270105 / E6270201 / top / middle sash	142	28	2,8
-20	E6270105 / E6270201 / top / outer sash	142	28	3,2
-21	E6270105 / E6270201 / sideways / inner sash	142	28	3,0
-22	E6270105 / E6270201 / sideways / outer sash	142	28	3,2
-23	E6270201 / E6270201 / middlesection	220	28	2,8
-24	E6270130 / E6270201 / bottom / inner sash	133	28	4,5
-25	E6270130 / E6270201 / bottom / outer sash	133	28	5,0
-26	E6270130, E6270131 / E6270201 / bottom / inner sash	133	28	4,6
-27	E6270130, E6270131 / E6270201 / bottom / middle sash	133	28	6,1
-28	E6270130, E6270131 / E6270201 / bottom / outer sash	133	28	5,5
-29	E6270150 / E6270201 / bottom / outer sash	142	28	3,3
-30	E6270150 / -- / bottom / fixed inner glazing	48	28	2,3
-31	E6270150 / E6270201 / top / outer sash	142	28	3,1
-32	E6270150 / -- / top / fixed inner glazing	48	28	2,3
-33	E6270150 / E6270201 / sideways / outer sash	142	28	3,1
-34	E6270350 / E6270201 / middlesection	113	28	3,5

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