

Number	20-003557-PR02 (NW -02-K20-06-en-01)
Owner	ETEM COMMERCIAL AND INDUSTRIAL LIGHT METALS S.A. 1, Iroon Polytechniou Str., 190 18 Magoula Greece
Product	Facade profiles - metal
Designation	System: EF50 SG
Details	Material Aluminium alloy - anodised - painted - powder coated; Projected width 50 mm; Thickness of infill from - to 28 mm - 36 mm; Edge cover of infill 15 mm; Internal insulator: Material User specific - Plamaframe; Cross section (W x T) 20 mm x 26 mm; Mullion; Designation E8050102 / E8050109; Internal box height 64 mm / 249 mm; Transom; Designation E8050359 / E-85350; Internal box height 6 mm / 253 mm; Internal glazing gasket: Designation ET130470.00 / ET130480.00 / ET130463.00 / ET130474.00; Thickness 10 mm – 12 mm / 4 mm – 6 mm; External glazing gasket: Material Silicone with filler; Glazing; Glazing mounting profile (screw joint): Material Aluminium alloy; Cross section (W x T) 22 mm x 9 mm; Length 2 x 60 mm; Distance 250 mm
Special features	The thermal transmittance is determined by using characteristic lines according to ift test report 20-003557-PR02 (PB-02-K20-06-en-01)

## Result

Calculation of thermal transmittance based on ift-guideline WA-03engl/3:2005-02 and EN ISO 10077-2:2017-07 (Radiosity-Method) / EN ISO 12631:2017-07



$$U_{t,m} = 1.3 \text{ W/(m}^2\text{K)} - 1.6 \text{ W/(m}^2\text{K)}$$

ift Rosenheim  
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## Basis \*)

Based on ift-guideline WA-03engl/3:2005-02  
EN ISO 10077-2:2017-07  
EN ISO 12631:2017-07

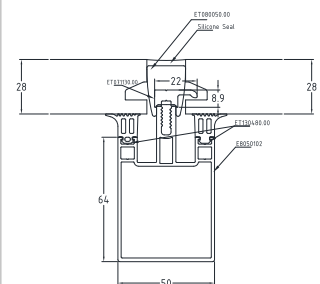
\*) and corresponding national versions  
e.g. DIN EN

Test report: 20-003557-PR02 (PB-01-K20-06-en-01)

20-003557-PR02 (PB-02-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](http://www.ift-rosenheim.de/ift-geprueft)  
ID: 2AA-E04D3

## 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 $d_p$	$U_{t,m}$ <sup>1)2)</sup>
		in mm	in mm	in W/(m <sup>2</sup> K)
-01	E8050109_ET130480.00 - 28 mm	50	28	1,6
-02	E8050109_ET130470.00 - 30 mm	50	30	1,6
-03	E8050109_ET130480.00 - 30 mm	50	30	1,5
-04	E8050109_ET130470.00 - 32 mm	50	32	1,5
-05	E8050109_ET130480.00 - 32 mm	50	32	1,5
-06	E8050109_ET130470.00 - 34 mm	50	34	1,5
-07	E8050109_ET130480.00 - 34 mm	50	34	1,5
-08	E8050109_ET130470.00 - 36 mm	50	36	1,5
-09	E8050102_ET130480.00 - 28 mm	50	28	1,5
-10	E8050102_ET130470.00 - 30 mm	50	30	1,5
-11	E8050102_ET130480.00 - 30 mm	50	30	1,5
-12	E8050102_ET130470.00 - 32 mm	50	32	1,5
-13	E8050102_ET130480.00 - 32 mm	50	32	1,4
-14	E8050102_ET130470.00 - 34 mm	50	34	1,4
-15	E8050102_ET130480.00 - 34 mm	50	34	1,4
-16	E8050102_ET130470.00 - 36 mm	50	36	1,4
-17	E8050359_ET130463.00 - 28 mm	50	28	1,6
-18	E8050359_ET130474.00 - 30 mm	50	30	1,6
-19	E8050359_ET130463.00 - 30 mm	50	30	1,6
-20	E8050359_ET130474.00 - 32 mm	50	32	1,6
-21	E8050359_ET130463.00 - 32 mm	50	32	1,5
-22	E8050359_ET130474.00 - 34 mm	50	34	1,5
-23	E8050359_ET130463.00 - 34 mm	50	34	1,5
-24	E8050359_ET130474.00 - 36 mm	50	36	1,5
-25	E-85350_ET130463.00 - 28 mm	50	28	1,4
-26	E-85350_ET130474.00 - 30 mm	50	30	1,4
-27	E-85350_ET130463.00 - 30 mm	50	30	1,4
-28	E-85350_ET130474.00 - 32 mm	50	32	1,4
-29	E-85350_ET130463.00 - 32 mm	50	32	1,4
-30	E-85350_ET130474.00 - 34 mm	50	34	1,3
-31	E-85350_ET130463.00 - 34 mm	50	34	1,3
-32	E-85350_ET130474.00 - 36 mm	50	36	1,3

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