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Including 3 pages + 1 annex (7 pages)

TEST REPORT : N°2021B COU 43185-1

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Mons, March 5th, 2021

REQUESTED BY : **SOLAR SCREEN INTERNATIONAL SA**
18 rue du Commerce
3895 Foetz
Luxembourg

REFERENCE OF THE REQUEST : Mail 17/02/2021

CONCERNED MANUFACTURER: **SOLAR SCREEN INTERNATIONAL SA**
18 rue du Commerce
3895 Foetz
Luxembourg

NUMBER OF SAMPLES AND IDENTIFICATION : **Solar 50C - See page 2**

PURPOSE OF THE REQUESTED : Determination of the photo-energetic properties
according to EN 15752-1:2014 (EN410:2011*- EN
12898:2019* - EN 673:2011*)

SAMPLES RECEIVED ON : 23/02/2021

TESTING DATE : 03/03/2021

REMARKS : * Test and/or sampling under accreditation
** Information given by the customer

DESCRIPTION OF THE SAMPLES

Concerned manufacturer**	:	SOLAR SCREEN INTERNATIONAL SA 18 rue du Commerce 3895 Foetz Luxembourg
Production site**	:	USA
Commercial name of the product**	:	Solar 50C
Customer's references**	:	/
Internal reference	:	COU 43185-1
Sampling	:	Under responsibility of the applicant
Sampling information	:	Traceability of the samples is under responsibility of the manufacturer. Date of production : /**
Class of film (EN 15752-1:2014 table 1)**	:	B
Type of film (EN 15752-1:2014 table 2)**	:	2
Low emissivity**	:	Yes
Glass Substrate**	:	Clear Float Glass
Normal emissivity of clear glass (ϵ_n)	:	0.89
Samples	:	
Number of samples	:	3 samples (100 x 100 mm)
Nominal Thickness	:	Glass 4 mm + film 40 μm **

** *Information given by the manufacturer*

PHOTO-ENERGETIC PROPERTIES

Instruments Description	For emissivity	For optical properties
Spectrophotometer	PerkinElmer SPECTRUM 100	PerkinElmer PE750
Type	Single Beam (FTIR)	Double Beam
Reflectance accessory	PerkinElmer	
Type of references	SnO ₂ Coated Glass	Primary surface Ag Mirrors
	Gold Mirror	Secondary surface Ag Mirrors
Measurement Responsible	DL	DL

Notes : Uncertainty calculated on emissivity measurement is ± 0.01

Reproducibility on emissivity measurement is estimated to ± 0.005

	REFERENCE CLEAR GLASS	GLASS + FILM FILM SIDE 2	IGU
Thickness	3.85 mm	3.90 mm	Film on side 4 4/15/4-90%Ar
U.V. range (280 – 380 nm)			
• Transmission τ_{uv}	56 %	0.83 %	0.67 %
Visible range (380 – 780 nm) – III D65/obs 2°			
• Transmission τ_v	90 %	41 %	38 %
• Reflection film side ρ_v	8 %	36 %	35 %
• Reflection opposite side ρ'_v	8 %	33 %	/ %
Solar range (300 – 2500 nm)			
• Transmission τ_e	86 %	32 %	29 %
• Reflection film side ρ_e	8 %	38 %	33 %
• Reflection opposite side ρ'_e	8 %	33 %	/ %
• Solar factor film side 2 g	0.87	0.40	0.50
• Total Solar Energy Rejected TSER	/	60 %	50 %
Shading Coefficient	/	0.47	/
Glare Reduction	/	54 %	/
UV Rejection UVR	/ %	99.17%	/
Thermal range (5000 – 50000 nm)			
• Emissivity ϵ_n	/	0.300	/
• Thermal coefficient U_g	/ %	4.2 W/m ² °K	2.2 W/m ² °K

D. LIBERT
Head of Department

Glazing and Components - INISMa