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RC MONS : 130.828 - Enregistrement : 08/02/01

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Accreditation N° : 32-Test
according to ISO 17025

TEST REPORT N° 2010B COU 10081-2

Including 3 pages + 1 annex
Page 1/3

Mons, July 2nd, 2010

REQUESTED BY :

AGC Glass Europe - R&D Centre
2 rue de l'Aurore
B-6040 Jumet
Belgium

REFERENCE OF THE REQUEST :

Offer 15/06/2010 - Y. Sartenaer

CONCERNED MANUFACTURER:

AGC GLASS EUROPE
Chaussée de la Hulpe, 166
1170 BRUXELLES
BELGIUM

NUMBER OF SAMPLES AND IDENTIFICATION :

Matelux Artic White
See page 2

PURPOSE OF THE REQUESTED :

Initial Type Test
Determination of the photo-energetic properties
according to EN 1096-1.*

SAMPLES RECEIVED ON :

14/06/2010

TESTING DATE :

21/06/2010

REMARKS : * Test under accreditation



Notified body (Id.N°1174)
according to ART.18 of the « Construction Products Directive » CPD 89/106/EEC

DESCRIPTION OF THE SAMPLES

Concerned manufacturer	:	AGC Glass Europe - R&D Centre 2 rue de l'Aurore B-6040 Jumet Belgium
Production site	:	/
Commercial name of the product	:	Matelux Artic White
Customer's references	:	/
Internal reference	:	CCOU 10081-2
Sampling	:	Under responsibility of the applicant
Sampling information	:	Traceability of the samples is under responsibility of the manufacturer.
Class of Coating	:	B
Coating position	:	/
Low emissivity	:	yes
Glass Substrate	:	Clear Float Glass
Normal emissivity of clear glass (ϵ_n)	:	0.89
Samples	:	
Number of samples	:	30 (100 * 150 mm)
Nominal Thickness	:	4 mm

PHOTO-ENERGETIC PROPERTIES - EN 1096-1*

Instruments Description	For emissivity	For optical properties
Spectrophotometer	PerkinElmer SPECTRUM 100	PerkinElmer LAMDA 19
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

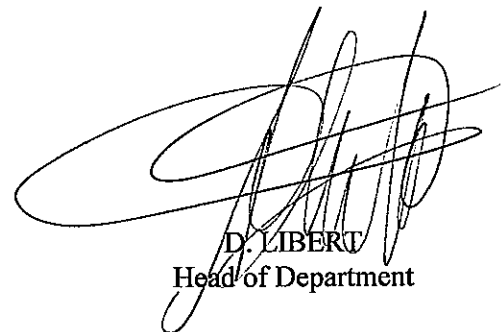
Reproducibility on emissivity measurement is estimated to ± 0.005

The glass is acid etched, the results are done with an uncertainty of around 5%

The measurement were realised with acid etched side toward luminous source (called coated side in the table)

10085-1: 3.85 mm

		COATED GLASS (EN 1096-1)	
U.V. range (280 – 380 nm)			
• Transmission	τ_{uv}	64.9	%
Visible range (380 – 780 nm) – III D65/obs 2°			
• Transmission	τ_v	76.7	%
• Reflection coated side	ρ_v	24.4	%
• Reflection opposite side	ρ'_v	17.4	%
Solar range (300 – 2500 nm)			
• Transmission	τ_e	81.5	%
• Reflection coated side	ρ_e	20.5	%
• Reflection opposite side	ρ'_e	14.8	%
• Solar factor	g	0.81	
Thermal range (5000 – 50000 nm)			
• Emissivity	ϵ_n	/	
• Thermal coefficient	U_g	/	



D. LIBERT
Head of Department

Glazing and Components - INISMa