

Including 3 pages + 1 annex

TEST REPORT : N° 2012B COU 15623-1c

Page 1/3

Mons, September 13th, 2012

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

REFERENCE OF THE REQUEST : Madame Marenne 26/04/2012

CONCERNED MANUFACTURER: **AGC GLASS EUROPE**
Chaussée de la Hulpe, 166
1170 BRUXELLES
BELGIUM

NUMBER OF SAMPLES AND IDENTIFICATION : Ultravision 60T
See page 2

PURPOSE OF THE REQUESTED : **Initial Type Test**
Determination of the photo-energetic properties
according to EN 1096-1.*

SAMPLES RECEIVED ON : 27/04/2012 and 07/09/2012

TESTING DATE : 02/05/2012 and 10/09/2012

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 Chaussée de la Hulpe, 166 1170 BRUXELLES BELGIUM
Production site	: Lodelinsart
Commercial name of the product	: Ultravision 60T M836 T58 P15
Customer's references	: Code 77310 M836 T58 P15 M864 T61 M864 T63
Internal reference	: CCOU 15623
Sampling	: Under responsibility of the applicant
Sampling information	: Traceability of the samples is under responsibility of the manufacturer.
Class of Coating	: C
Coating position	: 2
Low emissivity	: yes
Glass Substrate	: Clear Float Glass
Normal emissivity of clear glass (ϵ_n)	: 0.89
Samples	:
Number of samples	: 3 (90 * 70 mm)
Nominal Thickness	: 6 mm and 3 mm

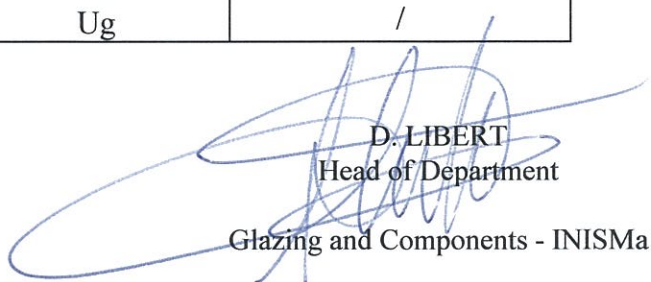
PHOTO-ENERGETIC PROPERTIES - EN 1096-1

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 Gold Mirror	Primary surface Ag Mirrors 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

15623-1: 5.82 mm

			COATED GLASS (EN 1096-1)	
U.V. range (280 – 380 nm)				
• Transmission	τ_{uv}		9.1	%
Visible range (380 – 780 nm) – III D65/obs 2°				
• Transmission	τ_v		68.5	%
• Reflection coated side	ρ_v		8.0	%
• Reflection opposite side	ρ'_v		8.8	%
Solar range (300 – 2500 nm)				
• Transmission	τ_e		31.9	%
• Reflection coated side	ρ_e		47.6	%
• Reflection opposite side	ρ'_e		34.9	%
• Solar factor	g		0.37	
Thermal range (5000 – 50000 nm)				
• Emissivity	ϵ_n		0.014	
• Thermal coefficient	U_g		/	


D. LIBERT
 Head of Department
 Glazing and Components - INISMa