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Institut Interuniversitaire des Silicates, Sols et Matériaux  
Laboratoire de Recherches et d'Essais

Association sans but lucratif



N° d'accréditation : 32-Test  
selon ISO 17025

## **TEST REPORT : N° 2007B SEC 2863-3**

Including 3 pages + 1 annex  
Page 1/4

Mons, le March 12<sup>th</sup>, 2007

**REQUESTED BY :** GLAVERBEL S.A. - Site d'Athus  
Zone Industrielle du PED  
6791 ATHUS  
BELGIUM

**REFERENCE OF THE REQUESTED :** Order n° 45697425 from November 17<sup>th</sup>, 2006

**CONCERNED MANUFACTURER:** GLAVERBEL S.A.  
Chaussée de la Hulpe, 166  
1170 BRUXELLES  
BELGIUM


**NUMBER OF SAMPLES AND IDENTIFICATION :** 902-5 – See page 2

**PURPOSE OF THE REQUEST :** COMPLIANCE WITH THE REQUIREMENTS OF THE EN 356  
STANDARD FOR FLAT SAFETY GLASS (RESISTANCE  
AGAINST MANUAL ATTACK).

**SAMPLES RECEIVED ON :** February 8<sup>th</sup>, 2007

**TESTING DATE :** February 16<sup>th</sup>, 2007

**COMMENTS :** \* 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

- Name of the applicant : GLAVERBEL S.A.  
Chaussée de la Hulpe, 166  
1170 BRUXELLES  
BELGIUM
- Commercial name of the product : /
- Customer reference : **902-5 (Thickness 666/2)**
- Technical specifications
- Internal reference : CSEC2863/3
  - Number of samples : 4 samples (1100 \* 900 mm)
  - Structural composition of the samples : See annex
- Side to present to the impact : Indifferent
- Integration of an electronic system or alarm component : None
- Sampling : Under responsibility of the applicant
- Sampling information : Traceability of the samples is under responsibility of the applicant.
- Witness : None

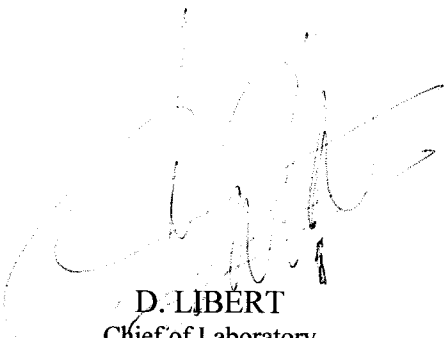
COMPLIANCE WITH THE REQUIREMENTS OF THE EN 356 STANDARD  
FOR FLAT SAFETY GLASS  
(class P1A to P5A)

On 3 samples  
Drop height : 6 m  
Testing date : March 16<sup>th</sup>, 2007  
Temperature in the test room: 19°C  
Conditioning time at that temperature: 8 days

Test piece number	Actual thickness (mm)	Number of impact	Inspection of the test piece after impact
1	18.27	1 <sup>st</sup> ball 2 <sup>nd</sup> ball 3 <sup>rd</sup> ball	Broken without tearing Broken with tearing of the PVB (50*10 mm) Broken with tearing of the PVB (40*10 & 40*70*30 mm)
2	18.28	1 <sup>st</sup> ball 2 <sup>nd</sup> ball 3 <sup>rd</sup> ball	Broken without tearing Broken without tearing Broken with tearing of the PVB (70*20 mm)
3	18.47	1st ball 2nd ball 3rd ball	Broken without tearing Broken without tearing Broken with tearing of the PVB (φ 110 mm)

**Conclusion**

The samples considered in this report are in compliance with the requirements of the EN 356 standard : **class P3A**



D. LIBERT  
Chief of Laboratory

Glazing & Components

S. LANGE  
Head of Department

## ANNEX

Composition of the tested samplesCSEC2863/3

COMPONENTS	TYPE	NOMINAL THICKNESS	TREATMENT	
			Physical	Chemical
1	Float glass	6 mm	-	-
2	PVB	0.38 mm	-	-
3	Float glass	6 mm	-	-
4	PVB	0.38 mm	-	-
5	Float glass	6 mm	-	-