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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 2863-1

Including 3 pages + 1 annex

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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 :** 902-4- 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**

<u>Name of the applicant</u>	:	GLAVERBEL S.A. Chaussée de la Hulpe, 166 1170 BRUXELLES BELGIUM
<u>Commercial name of the product</u>	:	/
<u>Customer reference</u>	:	<b>902-4 (Thickness 5.8.5/2)</b>
<u>Technical specifications</u>	:	
- Internal reference	:	CSEC2863/1
- Number of samples	:	4 samples (1100 * 900 mm)
- Structural composition of the samples	:	See annex
<u>Side to present to the impact</u>	:	Indifferent
<u>Integration of an electronic system or alarm component</u>	:	None
<u>Sampling</u>	:	Under responsibility of the applicant
<u>Sampling information</u>	:	Traceability of the samples is under responsibility of the applicant.
<u>Witness</u>	:	None

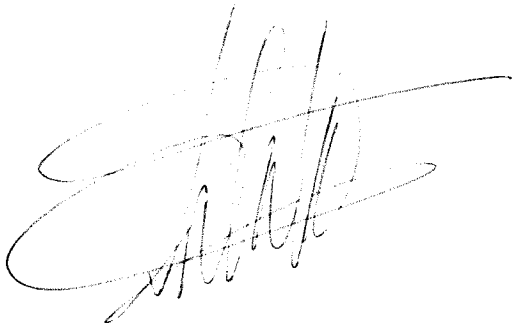
COMPLIANCE WITH THE REQUIREMENTS OF THE EN 356 STANDARD  
FOR FLAT SAFETY GLASS  
(class P1A to P5A)

On 3 samples  
Drop height : 3 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	18.93	1 <sup>st</sup> ball 2 <sup>nd</sup> ball 3 <sup>rd</sup> ball	Broken without tearing Broken without tearing Broken without tearing
2	19.13	1 <sup>st</sup> ball 2 <sup>nd</sup> ball 3 <sup>rd</sup> ball	Broken without tearing Broken without tearing Broken without tearing
3	18.99	1 <sup>st</sup> ball 2 <sup>nd</sup> ball 3 <sup>rd</sup> ball	Broken without tearing Broken without tearing Broken without tearing

**Conclusion**

The samples considered in this report are in compliance with the requirements of the EN 356 standard : **class P2A**



**D. LIBERT**  
Chief of Laboratory

Glazing & Components

**S. LANGE**  
Head of Department

## ANNEX

Composition of the tested samplesCSEC2863/1

COMPONENTS	TYPE	NOMINAL THICKNESS	TREATMENT	
			Physical	Chemical
1	Float glass	5 mm	-	-
2	PVB	0.38 mm	-	-
3	Float glass	8 mm	-	-
4	PVB	0.38 mm	-	-
5	Float glass	5 mm	-	-