



**inisma**  
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Laboratoire de Recherches et d'Essais

Association sans but lucratif



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## TEST REPORT N° 05/BE.64

N/Réf. : MCO/SEC/Glav. Bx/05/BE.64A  
V/Réf. : Email de Mr. Mertens du 16 mars 2005

Consisting of 5 pages  
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Charleroi 20<sup>th</sup> December, 2004

**REQUESTED BY :** GLAVERBEL GROUP BRUXELLES  
Chaussée de la Hulpe, 166  
B-1170 BRUXELLES

**REQUEST RÉFÉRENCE :** Email from Mr. Mertens

**SAMPLE DESCRIPTION :** Laminated safety glass

**SAMPLE NUMBER AND IDENTIFICATION :** 8 samples - CSEC2437

**PURPOSE OF THE REQUEST :** Test on safety glass in compliance with the requirements of the standard EN 12600 (Pendular test).

**SAMPLES RECEIVED ON :** March 16<sup>th</sup>, 2005      **TEST STARTING DATE :** March 23<sup>rd</sup>, 2005

**SPECIAL REMARKS :** \* BELTEST accredited tests

**This report concerns only the submitted samples.**

TEST ON SAFETY GLASS IN COMPLIANCE WITH  
THE REQUIREMENTS OF THE STANDARD EN 12600  
(Pendular test)

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Name of the applicant : GLAVERBEL GROUP BRUXELLES  
Chaussée de la Hulpe, 166  
B-1170 BRUXELLES

Commercial name of the product : **STRATOBEL 22.1 CODE 401-1**

Customer reference : **CODE 401-1**

Technical specifications

- Internal reference : CSEC2437
- Number of samples : 8 (878 x 1940 mm)
- Structural composition of the samples : see annex 1

Side to present to the impact : Indifferent

Integration of an electronic system or alarm component : none

Sampling : by the applicant

Samples compliance with the requirements : come within the requirements

Temperature in the test room : 22°C

Requested class : EN 12600

Drop height : 190 & 450 mm

Testing date : March 23<sup>rd</sup>, 2005

Conditioning time at that temperature : 7 days

Witness : Mr. Mertens and Mr. Longhi

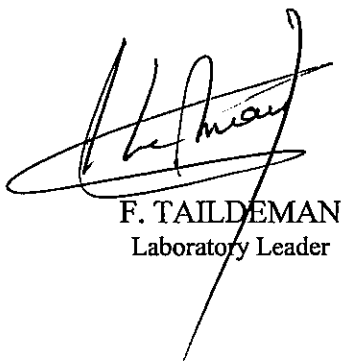
RESULT

TEST PIECE NUMBER	ACTUAL THICKNESS (mm)	DROP HEIGHT (mm)	INSPECTION OF THE TEST PIECE AFTER IMPACT
1	4.16	190	Intact
5	4.16	450	Intact
2	4.16	190	Intact
6	4.16	450	Broken with tearing of the PVB (15 mm)
3	4.15	190	Intact
7	4.15	450	Broken without tear
4	4.15	190	Intact
8	4.15	450	Intact

REMARK(S)

CONCLUSION

The tests carried out on the samples considered in this report gave results in compliance with the requirements of the EN 12600 (pendular test) standard for the safety **Classification 2B2**.



F. TAILDEMAN  
 Laboratory Leader



J.M. MALEMPRE  
 Leader Glazings and Components

ANNEX 1  
Composition of the tested samples  
CSEC2437

COMPONENTS	TYPE	NOMINAL THICKNESS	TREATMENT
First component	Float glass	1,90 mm	None
Second component	PVB	0,38 mm	None
Third component	Float glass	1,90 mm	None

**OFFICIAL ACKNOWLEDGEMENT**

**AUTHORIZED TESTS**

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

**Authorized by the Belgian organization for technical approval in building (UBAtc)**

- Glazing Appearance and geometry ;
- Photometric and energetic characteristics ;
- Coated glass durability
- Insulating glass performances ;
- Mirrors ;
- Impact resistance of security glazing;
- Dessicants for insulating glass ;
- Sealants for Insulating glass assembling ;
- Structural glazing sealants

**Authorized by the Belgian public federal service for transportation**

- Homologation tests of safety glazing for automotive( UN R.43 - CEE 92/22 and 89/173).

**Authorized by the Automotive Manufacturers Equipment Compliance Agency, Inc ( AMECA -  
Washington - U.S.A.)**

- Homologation tests of safety glazing for automotive( ANSI Z26.1 ).

**Authorized by the Ministry of International Trade and Industry ( MITI - JAPAN )**

- Specific Inspection Body – Ceramics section.