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Laboratoire agréé : Voir circulaire 514-B/33 du 09/02/87 du
M.T.P.

et communiqués 514-B/33/1 et 2 du M.C.I.

TEST REPORT N° 2005B SEC 2600-2

N/Réf. : MCO/Glav Bx - SEC - 2600-2A

V/Réf. : Email from Mr. Nokerman - 27.10.2005

Consisting of 4 pages

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Mons, November 17th, 2005

REQUESTED BY : GLAVERBEL SA
Chaussée de la Hulpe, 166
B-1170 BRUXELLES (BOISFORT)
BELGIUM

REQUEST RÉFÉRENCE : Email from Mr. Nokerman – October 27th, 2005

SAMPLE DESCRIPTION : Laminated safety glass

SAMPLE NUMBER AND IDENTIFICATION : 4 samples – Stratobel 33-4
CSEC2600/2

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

SAMPLES RECEIVED ON : November 10th, 2005 **TEST STARTING DATE :** November 15th, 2005

SPECIAL REMARKS : * BELTEST accredited tests

This report concerns only the submitted samples.

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

<u>Name of the applicant</u>	: Glaverbel SA Chaussée de la Hulpe, 166 B-1170 BRUXELLES (BOISFORT) BELGIUM
<u>Commercial name of the product</u>	: Stratobel 33-4
<u>Customer reference</u>	: Code 801 - 1
<u>Technical specifications</u>	
- Internal reference	: CSEC2600/2
- Number of samples	: 4
- Structural composition of the samples	: see annex 1
<u>Side to present to the impact</u>	: Indifferent
<u>Integration of an electronic system or alarm component</u>	: None
<u>Sampling</u>	: By the applicant
<u>Samples compliance with the requirements</u>	: Within the requirements
<u>Temperature in the test room</u>	: 21°C
<u>Requested class</u>	: EN 356 - Class P3A
<u>Drop height</u>	: 6 m
<u>Testing date</u>	: November 15 th , 2005
<u>Conditioning time at that temperature</u>	: 4 days
<u>Witness</u>	: Mr. Nokerman and Mrs. Barlet

RESULTS

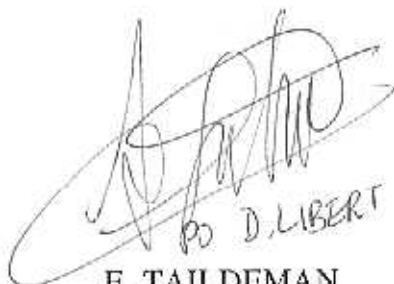
TEST PIECE Nr	ACTUAL THICKNESS (mm)	NUMBER OF IMPACT	INSPECTION OF THE TEST PIECE AFTER IMPACT
1	7.21	1 st ball 2 nd ball 3 rd ball	Broken without tearing Broken without tearing Broken without tearing
2	7.17	1 st ball 2 nd ball 3 rd ball	Broken without tearing Broken without tearing Broken without tearing
3	7.26	1 st ball 2 nd ball 3 rd ball	Broken without tearing Broken without tearing Broken without tearing

REMARK

None

CONCLUSION

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



F. TAILDEMAN
Laboratory Leader



J.M. MALEMPRE
Leader Glazings and Components

ANNEX 1

COMPOSITION OF THE TESTED SAMPLES

CSEC2600/2

COMPONENTS	TYPE	NOMINAL THICKNESS	TREATMENT
First component	Float glass	3.00 mm	None
Second component	PVB	1.52 mm	None
Third component	Float glass	3.00 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 "Eisenbahn – Bundesamt" (EBA – Deutschland)

- Optical properties – Safety glazing for railway vehicles