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Interuniversity Institute for Silicates, soils and Materials
Test and Research laboratory

Non-profit-making association



N° d'accréditation : 032-Test
selon ISO 17025

TEST REPORT : N° 2013B SEC 20237-2

Including 3 pages
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Mons, December 5th, 2013

REQUESTED BY :

GUARDIAN EUROPE S.À.R.L.
Zone Industrielle Wolser
L-3452 Dudelange
Luxembourg

REFERENCE OF THE REQUESTED :

Order HR007793

CONCERNED MANUFACTURER:

GUARDIAN CZESTOCHOWA
Wojciecha Korfanteo
42-200 Czestochowa
Poland

NUMBER OF SAMPLES AND IDENTIFICATION :

Lamiglass 44.2- 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 :

12/11/2013

TESTING DATE :

20/11/2013

COMMENTS :

* Test under accreditation



Notified body (Id.N°1174)
according to Regulation (EU) No 305/2011 - Construction products

Description OF THE SAMPLES

Manufacturer : **GUARDIAN EUROPE S.À.R.L.**
Zone Industrielle Wolser
L-3452 Dudelange
Luxembourg

Production site : **GUARDIAN CZESTOCHOWA**

Commercial name of the product : **Lamiglass 44.2**

Customer's references : /

Internal reference : SEC 20237

Sampling : Under responsibility of the manufacturer

Sampling information : Traceability of the samples is under responsibility of the manufacturer.

Number of samples : 6 samples (1100 * 900 mm)

Structural composition of the samples :

COMPONENTS	TYPE	NOMINAL THICKNESS	TREATMENT	
			Physical	Chemical
1	Clear Float glass	4 mm	-	-
2	Clear PVB	0.76 mm	-	-
3	Clear Float glass	4 mm	-	-

Integration of an electronic system or alarm component : None

Witness : None

TEST ON SAFETY GLASS IN COMPLIANCE WITH THE
REQUIREMENTS OF THE EN 356 STANDARD (2000)*
(class P1A to P5A)

On 3 samples

Drop height : 3.0 m

Testing date : 20/11/2013

Tested side : -

Temperature in the test room: 21°C

Test piece number	Actual thickness (mm)	Number of impact	Inspection of the test piece after impact
1	8.41	1	Broken without tearing
		2	Broken with tearing 80 mm
		3	Broken without tearing
2	8.41	1	Broken without tearing
		2	Broken with tearing 70 x 150 mm
		3	Broken with tearing 30 x 40 mm
3	8.38	1	Broken without tearing
		2	Broken with tearings 30-30 and 70 mm
		3	Broken with tearing 150 mm

Conclusion

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

D. LIBERT
Head of Department

Glazing and Components - INISMa