

# IKATES, s.r.o. – Laboratory for glass and building products testing



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*Accredited testing laboratory No.1139*

*accredited by Czech Institute of Accreditation in Prague*

*for glass and selected building products testing*

## TEST REPORT

**No. : A – 109A / 2005**

Test item : **Thermally toughened safety glass**  
- **fragmentation test according to ČSN EN 12150-1**  
**modified according to EN 14428**

Client (address): AGC Flat Glass Europe  
Chaussé de La Hulpe 166, B 1170 Brussel, Belgium

Producer (address): AGC Processing Teplice a.s., člen AGC Group,  
Za Drahou 462, 416 74 Teplice, Czech Republic

Place of test performance : testing laboratory IKATES, s.r.o., Teplice

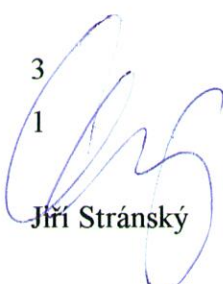
Date of sample receiving : 2005-06-15

Date of test performance : 2005-06-16

Date of issue : 2008-06-09

Number of pages : 3

Page No. : 1

Manager of testing laboratory :  Jiří Stránský



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**Standard classification of products :**

26.12.12

**Normative foundations :**

ČSN EN 572 (2004): Glass in building – Basic soda lime silicate glass products – Part 2: Float glass

ČSN EN 12150-1 (2000): Glass in building – Thermally toughened soda lime silicate safety glass – Part 1 : Definition and description

EN 14428 (2004): Shower enclosures – Functional requirements and test methods

**Sampling :**

To the fragmentation test were supplied test specimens of thermally toughened safety glass manufactured with horizontal process from clear float glass – intended use – shower enclosures:

- 1 pc. 876x1938 mm, thickness 4 mm
- 1 pc. 876x1938 mm, thickness 5 mm
- 1 pc. 876x1938 mm, thickness 6 mm

**Metrological provision of tests :**

Fragmentation test was performed using of 75 g hammer. Dimensions were measured with calibrated measuring devices of length.

**Test results :**

**Fragmentation test** (according to ČSN EN 12150-1 modified acc. to EN 14428)

Glass thickness (mm)	The longest particle (mm)	Particles count in square 50x50 mm (pcs.)
4	25	52
5	19	62
6	17	58

Note: Fragmentation pattern was caught on senzitized paper. This record is available for inspection in the testing laboratory.



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Nominal thickness (mm)	Real thickness (mm)	Overall bow (mm/m)	Local bow (mm)
4	3,92	0,75	0,20
5	4,87	0,50	0,15
6	5,88	0,15	< 0,05

**Expert viewpoint:**

requirement of EN 14428, cl.4.3.2 : min. particles count: 40

particles count (tested specimens): 52 to 62 pcs.

viewpoint: **in conformity**

**Statement :** Test results, given in this report, apply only to the tested items and does not replace other documents, e.g. administrative characters, issued from other bodies, according to particular regulations.

This report was re-issued based on request of original client in context of company name change from Glaverbel to AGC.

**Distribution list :**

2 x AGC Flat Glass Europe

1 x Laboratory for glass and building products testing IKATES, s.r.o. (archive)

**Test was performed by :**

*V Z. M. J. J. Stránský, Šnajdr*  
**Vladimír Diviš, Ing. Jiří Stránský, Jiří Šnajdr**

**Report was performed by :**

**For correctness and validity of report is responsible :**

*J. Stránský*  
**Jiří Stránský**

