

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



Tolstého 186, 415 03 Teplice, Czech Republic

tel.: +420 417 503 093, tel./fax: +420 417 502 825

e-mail: [ikates@ikates.cz](mailto:ikates@ikates.cz) [www.ikates.cz](http://www.ikates.cz)



*Testing laboratory No.1139 accredited by Czech Accreditation Institute acc to. ČSN EN ISO/IEC 17025 for glass and selected building products testing*

## TEST REPORT

No. : 13A-1 / 2015

Test item : **Float glass 4 mm with polymer film Solar Gard AC 8 mil clear  
- ball drop test according to ČSN EN 356 P1A**

Client (address): Saint-Gobain Solar Gard NV  
Karreweg 18, B - 9870 Zulte, Belgium

Producer (address): Saint-Gobain Solar Gard NV  
4540 Viewridge Ave.  
San Diego CA 92123  
USA

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

Date of sample receiving : 2015-01-30

Date of test performance : 2015-02-11

Date of issue : 2015-02-16

Number of pages : 3 + annex

Page No. : 1

Manager of testing laboratory :   
Michal Hnilička



Results and/or informations out of accreditation range and subcontracts are in the test report identified. Copying and translating, using of report for other purposes (advertisement, extracts from the report) only with consent of the laboratory. Without consent of the laboratory can be the test report reproduced whole only.

<b>No. : 13A-1 / 2015</b>	<b>Number of pages : 3</b>
	<b>Page No. : 2</b>

**Normative foundations :**

ČSN EN 356 (2000): Glass in building – Security glazing – Testing and classification of resistance against manual attack

**Sampling :**

To the test EN 356 – P1A were used 3 pcs. samples of glass with safety film with dimensions 900x1100 mm:

**float glass 4 mm with polymer film Solar Gard AC 8 mil clear**

Note: Measured film thickness incl. adhesives: 0,24 mm; total thickness of glass with film: 4,1 mm.

**Metrological provision of tests :**

Calibrated measuring gauges of testing laboratory were used during testing. Testing equipment complies with requirements ČSN EN 356.

**Test results :**

**Ball drop test (ČSN EN 356, cl.8)**

float glass 4 mm with polymer film Solar Gard AC 8 mil clear		
Drop No.	Class	State after impact
1 / 1	P1A	glass breakage, no rupture of film
1 / 2		glass breakage, no rupture of film
1 / 3		glass breakage, rupture of film in length 60 mm, ball not passed through
2 / 1	P1A	glass breakage, no rupture of film
2 / 2		glass breakage, no rupture of film
2 / 3		glass breakage, no rupture of film
3 / 1	P1A	glass breakage, no rupture of film
3 / 2		glass breakage, no rupture of film
3 / 3		glass breakage, rupture of film in length 100 mm, ball not passed through

Note: Film is always positioned on the protected side.

**Classification: EN 356-P1A**

**Statement :** Test results, given in this report, apply only to the tested items and do not replace other documents, e.g. administrative character, issued by other bodies, according to particular regulations. The official version of the test report is in Czech language.



No. : 13A-1/ 2015	Number of pages : 3
	Page No. : 3

**Distribution list :**

1 x Saint-Gobain Solar Gard NV

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

**Test was performed by :**

  
  
**Michal Hnilička, Jiří Šnajdr**

**Report was prepared by :**

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

  
**Michal Hnilička**

————— end of the test report —————



PHOTODOCUMENTATION



AKREDITOVANÁ ZKUŠEBNÍ LABORATOR  
IKATES, s.r.o.  
Tolstého 186  
TERLICE  
416 03  
1139