

Beschussamt Mellrichstadt

Lohstraße 5, D-97638 Mellrichstadt
Tel: +49 9776 7050-0, Fax: +49 9776 5457
e-mail: poststelle@ba-mel.bayern.de

Saint-Gobain Solar Gard LLC
4540 Viewridge Avenue
US-San Diego California 92123

Test Report

Testing of security glazing products against manual attack according to DIN EN 356 (steel ball drop test)

Report-No.....: 16G252F01#, Order No.: 7266
Test date.....: 6 September 2016
Tester.....: Niederle, Kalnischkies

Applicant.....: Bruxsafol Folien GmbH
Specimen designation.: IGU 4 mm toughened / annealed / Solar Gard
Armorcoat 10 mil clear
Manufacturer.....: Saint-Gobain Solar Gard LLC

Requirement.....: P2A

Description of the specimen in direction of attack (specification of the manufacturer):

4,00mm toughened glass
16,00mm air space
4,00mm annealed glass
0,25mm Solar Gard Armorcoat 10 mil clear

Calculated thickness of the sample [mm]: 24,25



Willner

Mellrichstadt, 7 September 2016

The test results relate only to the tested samples described in this test report.

This test report loses its validity, if any alteration or modification to the manufacturing process, materials and/or quality management system could impact the product conformity.

This test report is only valid with the correspondence of the report numbers on all pages and with the official seal.

Duplication in extracts of this report is only allowed with written approval of the Beschussamtes Mellrichstadt.

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Datas of the specimen No. 1:
Dimensions[mm]: 1100 x 900
Thickness[mm]: 24,3

Datas of the specimen No. 2:
Dimensions[mm]: 1100 x 900
Thickness[mm]: 24,3

Datas of the specimen No. 3:
Dimensions[mm]: 1100 x 900
Thickness[mm]: 24,3

Test conditions:

Class: P2A
Fall height[mm]: 3000 ± 50

Room temperature[°C]: 25
Humidity[%]: 50
Specimen temperature ..[°C]: 25

Conditioning of the specimen:

Minimum 12 hours at a room temperature of 23°C ± 5°C

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Results:

The requirements are met **Yes / No** = Y/N
Penetration = P
Stopping of the test = S
The sample was **p**ulled out of the **f**rame = PF

Sample No.	Impact No.	Result	Impact No.	Result	Impact No.	Result
1	1	Y	2	Y	3	Y
2	1	Y	2	Y	3	Y
3	1	Y	2	Y	3	Y

Summary:

Determined category of resistance:

- Sample No. 1: P2A
- Sample No. 2: P2A
- Sample No. 3: P2A

The tested security glazing products has obtained the classification
DIN EN 356 P2A.

This report consists of 3 pages.