

# Beschussamt Mellrichstadt

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Bekaert Specialty Films LLC  
4540 Viewridge Avenue  
CA 92123 San Diego  
USA

## Test Report

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

Report-No.....: 09G327B01#, Order No.: 7301  
Test date.....: 15 September 2009  
Tester.....: Niederle

Applicant.....: Bruxsafol Folien GmbH  
Specimen designation.: Solar Gard Armorcoat 14 mil / P2A / Insuleted  
Glass Unit - Annealed Glass  
Manufacturer.....: Bekaert Specialty Films LLC

Requirement.....: P2A

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

6,00mm Annealed Glass  
16,00mm Air Space  
6,00mm Annealed Glass  
0,35mm Foile Solar Gard Armorcoat 14mil Clear / 8014 h.c.

Calculated thickness of the sample [mm]: 28,35

  
Willner 

Mellrichstadt, 17 September 2009

The test results are only valid for the samples described in this report.

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

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

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Report-No... ..: 09G327B01#  
Report part-No.:  
Test date.....: 15 Sept.2009

Datas of the specimen No. 1:  
Dimensions .....[mm]: 1100 x 900  
Thickness .....[mm]: 28,4

Datas of the specimen No. 2:  
Dimensions .....[mm]: 1100 x 900  
Thickness .....[mm]: 28,5

Datas of the specimen No. 3:  
Dimensions .....[mm]: 1100 x 900  
Thickness .....[mm]: 28,60

Test conditions:

Class .....: P2A  
Fall height .....[mm]: 3000 ± 50

Room temperature .....[°C]: 21  
Humidity .....[%]: 55  
Specimen temperature ..[°C]: 20

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 pulled out of the frame = PF

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

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

Sample No.	Impact No.	Result	Impact No.	Result	Impact No.	Result
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.