



Test Report

Number: 2022-08-5319-04

Client: Armolan Europe GmbH
Alter Postweg 1
67346 Speyer
Germany

Commission: Classification of glass with safety film according to DIN EN 356

Product: 6 mm annealed glass with ARM Safety clear 12 mil

Number of pages 4

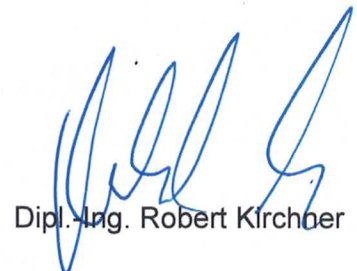
Underlying guidelines and test methods:

DIN EN 356: 2000-02 Glass in Building – Security glazing – Testing and classification of resistance against manual attack

Rohrbach, 19. February 2024



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Dipl.-Ing. Robert Kirchner

The test results mentioned in this test report exclusively refer to the test material as indicated in this report.

Reprinting this test report requires our written approval.

Publishing this test report – even only extracts – is strictly prohibited

Geschäftsführer [Dipl.-Ing. Michael Friedmann · Dipl.-Ing. Robert Kirchner · HRB Landau 3143]

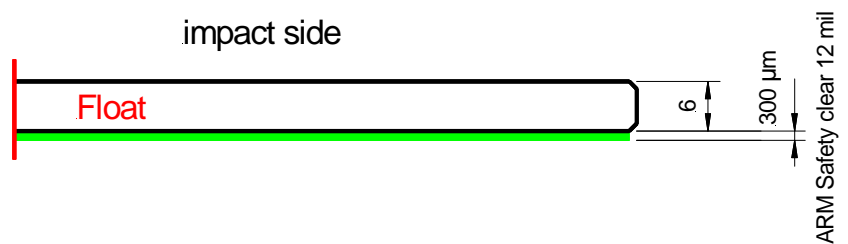
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1 Test Material

Basic material: Floatglass (annealed glass) according to DIN EN 572-2
Transformed to: Flat glass with safety film
Samples: 3 pc. Glass panes 1100 x 900 mm Nominal thickness 6 mm

Glass composition: 6 Float with ARM Safety clear 12 mil



Sample-ID: 34 - 36
Sampling By client
Receipt: 15. February 2024

2 Test Equipment

The following test equipment was used:

- P085 – digital calliper
- P023 – digital micrometre
- P126 – steel ruler
- P128 – temperature and humidity measuring device
- P141 – support apparatus DIN EN 356
- P143 – impactor DIN EN 356



The test equipment used is subject to test equipment surveillance.

3 Tests and Results

The tests were carried out on 15. February 2024 in our laboratories.

Room climate prevailed during the tests. The sample material was stored under these conditions for a sufficiently long time before testing.

The tests led to the following results:

Sample: 34	Category: P1A	Drop height: 1500 mm
Impact 1:	No damage	
Impact 2:	Breakage of glass, no penetration	
Impact 3:	Further damage, no penetration	
		
Sample: 35	Category: P1A	Drop height: 1500
Impact 1:	Breakage of glass, no penetration	
Impact 2:	Further damage, no penetration	
Impact 3:	Further damage, no penetration	
		
Sample: 36	Category: P1A	Drop height: 1500
Impact 1:	No damage	
Impact 2:	No damage	
Impact 3:	No damage	

4 Classification

The tested product is to be classified as follows:

Product	Class
6 mm Float glass with safety film ARM Safety clear 12 mil	EN 356 P1A