



Test Report

Number: 2022-08-5319-06

NB-Number: 1513

Client: Armolan Europe GmbH
Alter Postweg 1
67346 Speyer
Deutschland

Commission: Impact test and classification of flat glass
with safety film according DIN EN 12600

Product: 4 mm float glass with film ARM safety 8 Mil (200 µm)

Number of pages 5

Underlying guidelines and test methods:

DIN EN 12600:2003-04 Pendulum test – Impact test method and classification for flat glass

Rohrbach, 06. November 2024


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The test results stated in this test report exclusively refer
to the specified test material.

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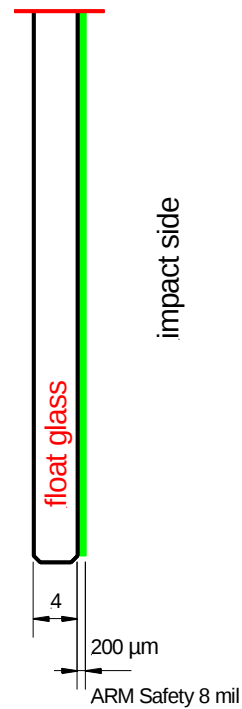
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1 Test material

Basic glass: Floatglass according DIN EN 572-2
Processed to: Flat glass with safety film
Test specimen: 5 Glass panes 876 x 1938 mm Nominal thickness 4 mm
Glass structure:



Sample numbers: 11 – 15
Sampling: by the client
Receipt of specimen: 06.09.2023

2 Test Equipment

Following test equipment was used:

- P085 – Digital Calliper MarCal 16 ER
- P124 – Test frame according DIN EN 12600:2003-04
- P125 – Double tyre impactor

The test equipment used is subject to test equipment surveillance.

3 Tests and results

3.1 Test

The test was executed in our laboratory according DIN EN 12600:2003-04 chapter 5 with the samples No. 11 – 15.



Fig. 1: Test frame with sample

4 mm float glass with ARM Safety 8 mil			
Drop height [mm]	Sample No.	Sample broken?	Breakage according 4a?
190	11	No	-
	12	Yes	Yes
	13	No	-
	14	No	-
450	11	No	-
	13	No	-
	14	Yes	Yes
	15	Yes	Yes
1200	13	Yes	No

3.2 Breakage behaviour

The breakage behavior corresponds to type B, which according to this standard is typical for a normally cooled glass with a film bonded to a surface.



Fig. 2: Sample 14 with breakage behaviour Type B

3.3 Classification

According to the test results, the tested product is classified as follows:

Type	Classification
4 mm float glass with ARM Safety 8 mil	2 (B) 2

---- End of test report ---