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ALLEMANN GmbH - Holz
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Germany

Determination of resistance to wind load according to EN13241:2003+A2:2016 – Development testing

(1 appendix)

Test object

(see drawings and figures in appendix 1)

Client: ALLEMANN GmbH
Product name: Sliding door metal
Type of door: Sideways opening top hung garage door of metal/glass/wood,
250772 Pos 1, glazed upper section, pass door
Daylight size: Width 2450 mm, Height 3855 mm
Rise number: 2892

The door was supplied and installed by the client in the opening of an airtight chamber, with its exterior facing inwards towards the chamber, see description, figures and drawings in appendix 1.

Summary of classification

Resistance to wind load according to EN 12424:2000: Class 4, 1000 Pa

Test procedure

Resistance to wind load

The door was tested in an air pressure chamber. Before the test measures were taken to minimize air leakage in the door and its supporting construction. The air pressure in the test chamber was increased in steps in accordance with the different classes given in EN 12424:2000. The test was carried out in accordance with EN 12444:2000.

Test results

The bottom RHS edge of the sliding door, as seen from the inside face, hopped over the bottom corner guide rail mounted on the floor when testing for the class 5, 1100 Pa failure load of 1513 Pa, mainly due to considerable bending of the door vertically, and the RHS vertical door edge profile was permanently deformed after this, see figures 7-8 in appendix 1.

Classification according to EN 12424:2000: Class 4, 1000 Pa

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Accred. No. 1002
Testing
ISO/IEC 17025

Conditions of test

The test results refer only to the tested object.

Date of test:	2025-05-14 – 2025-05-15
Place of test:	RISE, Borås, House 2
Equipment used:	Test rig no. KWP04678 och measuring equipment 202429
Air tightening against the test rig:	Not possible, sliding door, plastic film used for exerting air pressure for wind load
Estimated error margin:	Air pressure difference $\pm 2 \text{ Pa} \leq 100 \text{ Pa}$, $\pm 2 \% > 100 \text{ Pa}$,
Management of measurement uncertainty:	No account of measurement uncertainty taken for classification
Accreditation includes:	Resistance to wind load according to EN 12424:2000
Test climate: (2025-05-14)	Air temperature 22,5 °C, RH 31,0 %, air pressure 991,9 hPa
(2025-05-15)	Air temperature 20,5 °C, RH 25,3 %, air pressure 994,5 hPa
Conditioning:	Laboratory climate after arrival at RISE

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RISE Research Institutes of Sweden AB Building physics & sustainable buildings - Building physics testing

Performed by



Richard Dawson
Appendix

Examined by



Börje Gustavsson