

Linolie Døre og Vinduer ApS

Vestergade 33

VEMB-7570

Danmark

Determination of air permeability, watertightness and resistance to wind load

(1 appendix)

Test object

(see attached drawing and figures in appendix 1)

Manufacturer:

Linolie Døre og Vinduer ApS

Type:

6 x 14, outwards opening top hung wooden double window

Size:

600 x 1400 mm

Lock position of test object:

Latched, not locked

Condition on arrival:

No visible damage.

Date of arrival:

2022-11-08

Date of testing:

2022-12-05

RISE consecutive serial number:

2730

The test object was chosen by the client and delivered to RISE and mounted in the test rig by RISE.

Summary: Classification according to SS-EN 14351-1:2006 + A2:2016

Air permeability, SS-EN 1026:2016

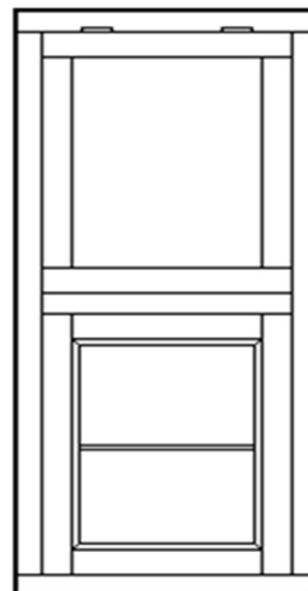
Class 4, SS-EN 12207:2017

Watertightness, SS-EN 1027:2016

Class E1200, SS-EN 12208:2000

Resistance to wind load, SS-EN 12211:2016

Class C3, SS-EN 12210:2016

**RISE Research Institutes of Sweden AB**

Postal address

Box 857
501 15 BORÅS
SWEDEN

Office location

Brinellgatan 4
504 62 Borås
SWEDEN

Phone / Fax / E-mail

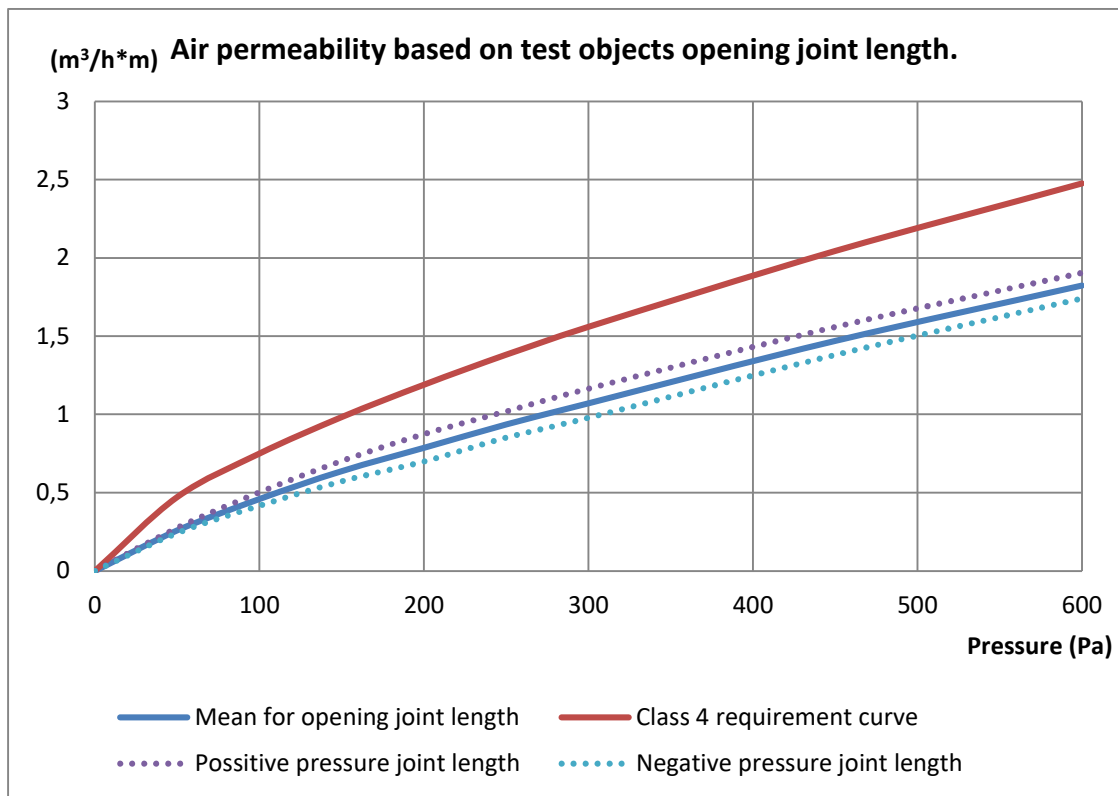
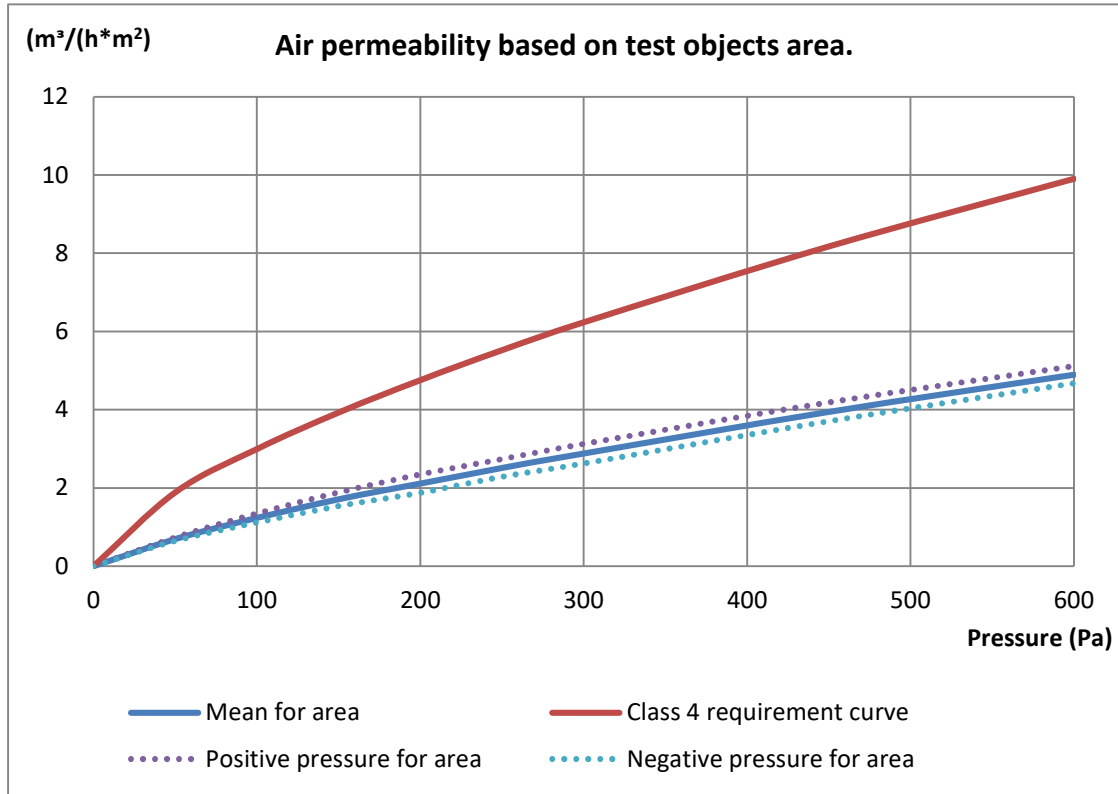
+46 10-516 50 00
+46 10 516 51 78
info@ri.se

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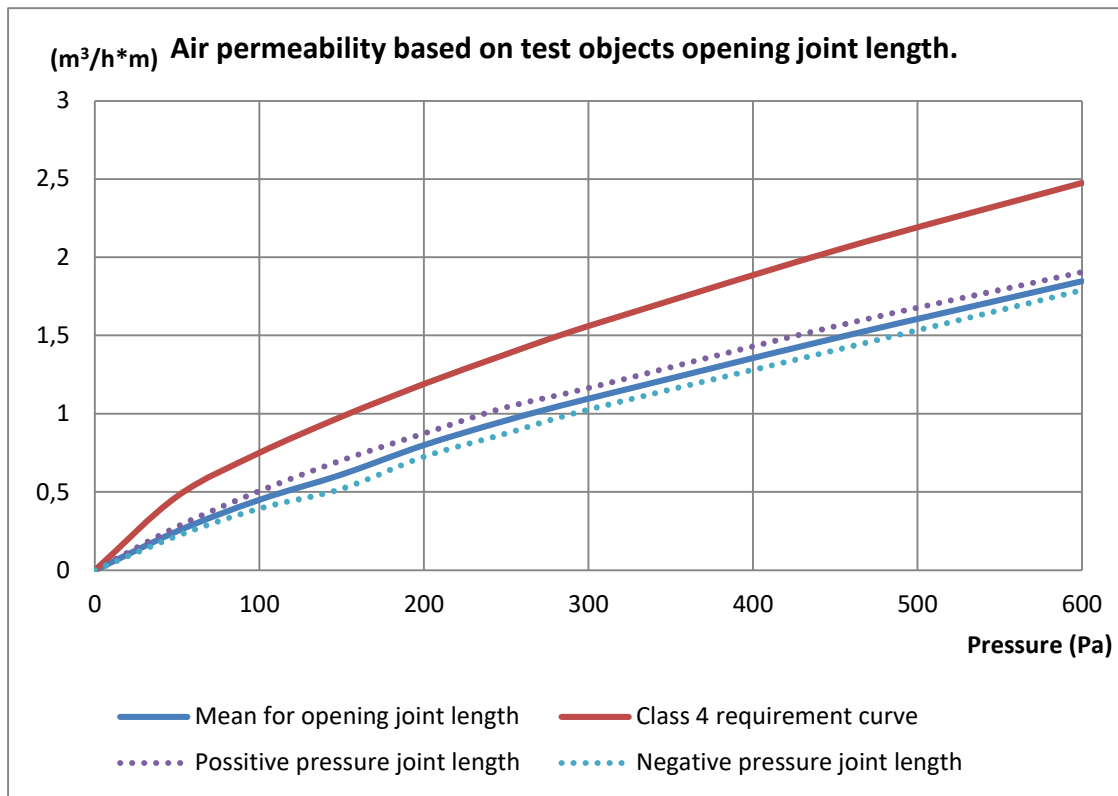
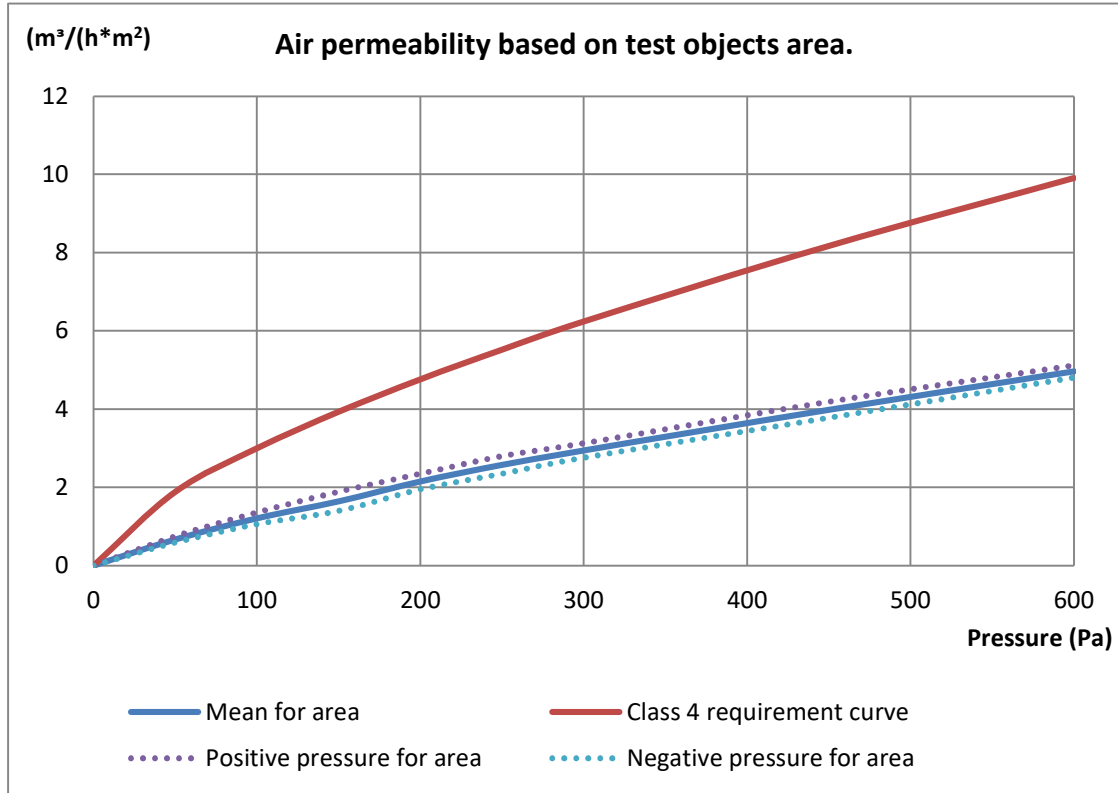
Accred. No. 1002
Testing
ISO/IEC 17025

Air permeability according to SS-EN 1026:2016 up to 600 Pa

Before wind load:



After wind load:



Classification according to SS-EN 12207:2017

	Before wind load	After wind load
Based on the test objects area	Class 4	Class 4
Based on the test objects joint length	Class 4	Class 4
Overall classification	Class 4	Class 4

The window meets the requirements for class 4 according to SS-EN 12207:2017 both before and after wind load.

Watertightness according to SS-EN 1027:2016 method B up to 300 Pa

No leakage noted.

Watertightness according to SS-EN 1027:2016 method A up to 1200 Pa

No leakage noted.

The window meets the requirements for class E1200 according to SS-EN 12208:2000.

Resistance to wind load according to SS-EN 12211:2016 class 3**Deflection test up to 1200 Pa**

Pressure, Pa	Deflection, mm	
	Left vertical casement (measuring length = 750 mm)	Right vertical casement (measuring length = 750 mm)
0	0,2	0,3
1200 positive pressure	0,3	0,4
1200 negative pressure	0,1	0,2

The maximum relative frontal deflection was 0,13 per mille (requirement: < 3.3 per mille according to SS-EN 12210:2016 class C)

Repeated pressure test from - 600 up to + 600 Pa and storm safety test up to 1800 Pa

No damage noted and the window was fully functional after testing.

The window meets the requirements for the overall wind load classification of class C3, according to SS-EN 12210:2016.

Conditions of test

The test results refer only to the tested object.

Equipment used:	Test rig no. 202206 and measuring equipment no. 200746, BX50631
Air tightening against the test rig:	On the test objects inside face
Estimated error margin:	Air pressure difference ± 2 Pa, air flow ± 5 % deformation (wind load) $\pm 0,1$ mm
Management of measurement uncertainty:	No account of measurement uncertainty taken for classification
Accreditation includes:	Air permeability according to EN 1026:2016 Watertightness according to SS-EN 1027:2016 Resistance to wind load according to SS-EN 12211:2016
Test climate:	Air temperature 18.3 °C, RH 27 %, air pressure 1004 hPa
Water temperature:	According to the standard
Conditioning:	Laboratory climate after arrival at RISE

RISE Research Institutes of Sweden AB Department Building and Real Estate - Building Envelopes and Building Physics

Performed by



Mihai Oglice

Examined by



Börje Gustavsson

Appendix 1



Figure 1: Inside face of the test object mounted in the test rig. Air tightening on inside face.

Appendix 1



Figure 2: View of the horizontal middle post frame member after watertightness test up to 1200 Pa.

Appendix 1



Figure 3: View of the upper horizontal frame member after watertightness test up to 1200 Pa.

Verifikat

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Vinduer ApS 1154165.

Huvuddokument

8 sidor

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Oglice (MO)

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Signerande parter

Mihai Oglice (MO)

RISE Research Institutes of Sweden AB

Org. nr 556464-6874

mihai.oglice@ri.se



Signerade 2022-12-20 10:51:16 CET (+0100)

Börje Gustavsson (BG)

borje.gustavsson@ri.se

+46 10 516 51 70



Signerade 2022-12-20 14:28:42 CET (+0100)

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