INSTITUTE FOR TESTING AND CERTIFICATION
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Division CSI - Centre of Civil Engineering

Notified Body No. 1023

REPORT OF ASSESSMENT OF PERFORMANCE

No. 755200247 / 2022

Product: **External aluminium door**

Model name: **R90 Series Side-hinged Door**

Applicant: **Foshan Wansley Industrial Co., Ltd.**
No. 11, Luocun Avenue North, Lutang Community,
Shishan Town, Nanhai District, Foshan,
Guangdong, China, 528226

Manufacturer: **Foshan Wansley Industrial Co., Ltd.**
No. 11, Luocun Avenue North, Lutang Community,
Shishan Town, Nanhai District, Foshan,
Guangdong, China, 528226

Assessed by: **Josef Vaněk**

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Number of pages: **14**

NOTIFIED BODY 1023 INSTITUTE FOR TESTING AND CERTIFICATION 3

Mgr. Jiří Heš
Representative of the Notified Body No. 1023

Introduction

External doors as construction products have to be assessed on the basis of relevant clauses of the Regulation (EU) No 305/2011. European standards after their becoming available are subsequently adopted as national standards. All the EN standards cited in this report were issued with the same number as the Czech standards designated ČSN EN 14351-1+A2:2018, etc. with equal requirements.

1. Product specification

External aluminium door, model name: R90 Series Side-hinged Door

More product specification below.

2. Assessment of and Verification of Constancy of Performance (AVCP)

2.1. Harmonized technical specification and the AVCP system

For the assessment and verification of constancy of performance (AVCP) of the external door with the essential requirements of the CPR the harmonized standard EN 14351-1:2006+A2:2016 *Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets* (without resistance to fire and/or smoke leakage characteristics) was adopted.

For this product the system 3 of the AVCP is laid down, which corresponds to Annex V, Section 1.4, of the Regulation (EU) No 305/2011. In this system, the initial type testing shall be performed by Notified Body, in compliance with the Annex ZA of the above mentioned standard („Clauses of this European Standard addressing the provisions of the Regulation (EU) No 305/2011"). The AVCP shall be based on the clauses ZA.2 (Table ZA.3b) of the mentioned standard.

2.2. Properties specifying the essential requirements

The compliance of the external door with the essential requirements of the ZA Annex of the EN 14351-1:2006+A2:2016 was assessed by evaluation of the following properties (the task of the notified body):

- **Resistance to wind load according to EN 12211, EN 12210**
- **Watertightness according to EN 1027 (method 1A), EN 12208**
- **Air permeability according to EN 1026, EN 12207**

Other properties such as acoustic performance, thermal transmittance and others were not required by the manufacturer. The manufacturer declares that the assessed product meets all requirements of Title VIII and Annex XVII of the Regulation (EC) No. 1907/2006 of the European Parliament and of the Council as amended.

2.3. Place and method of sampling

The sample was taken in the manufacturer's site by his representatives, subsequently sent and taken over in the testing laboratory of Intertek Testing Services Ltd., Shanghai, accredited test laboratory No. TL-394, Shanghai, China.

2.4. Sample description and identification

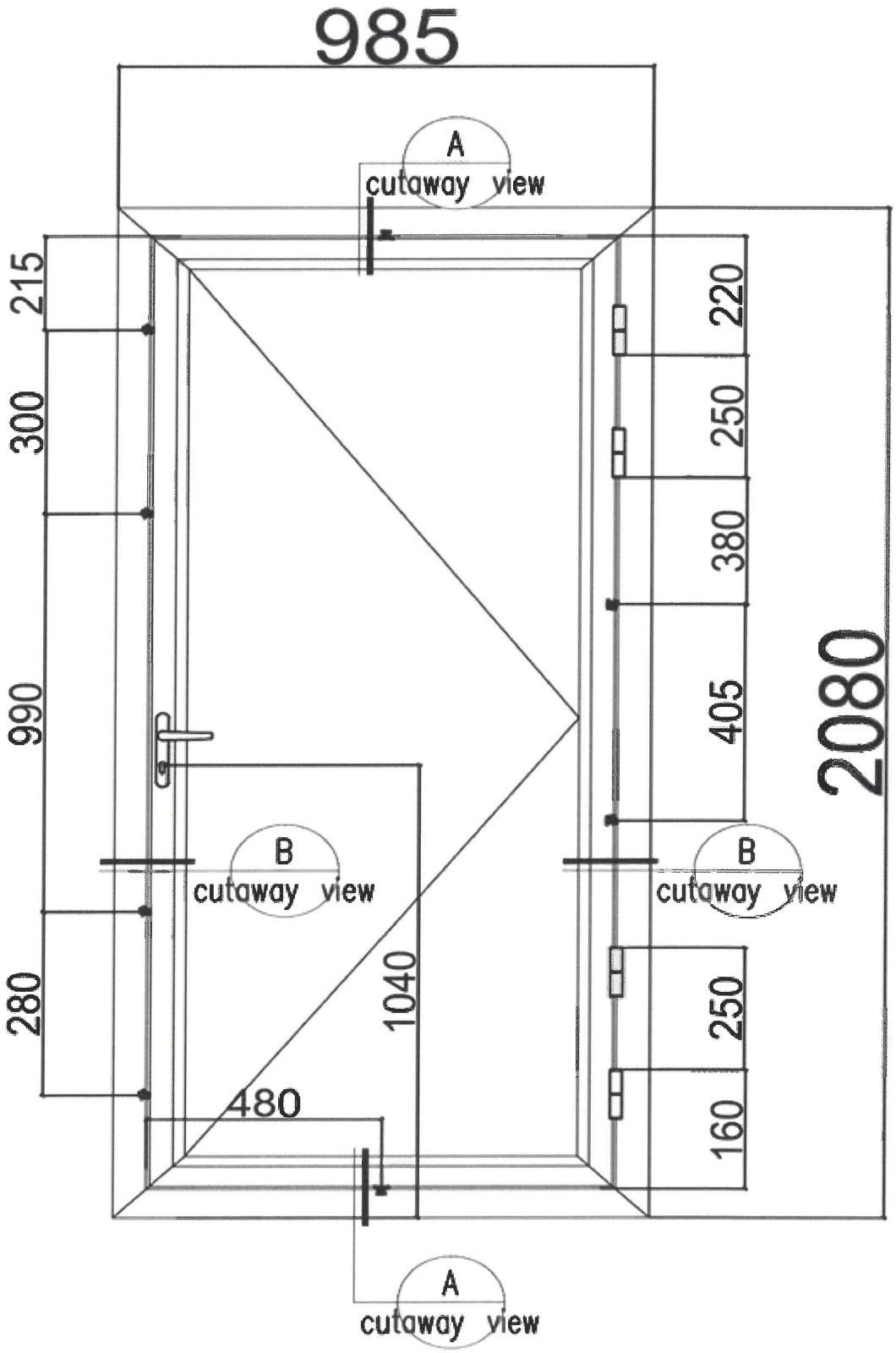
The manufacturer in co-operation with the Notified Body No. 1023, in accordance with the Art. 7.2.3 of the technical standard ČSN EN 14351-1+A2 has chosen following representative test specimen:

A (ID: S221114007SHF.001): External aluminium door, model name: R90 Series Side-hinged Door

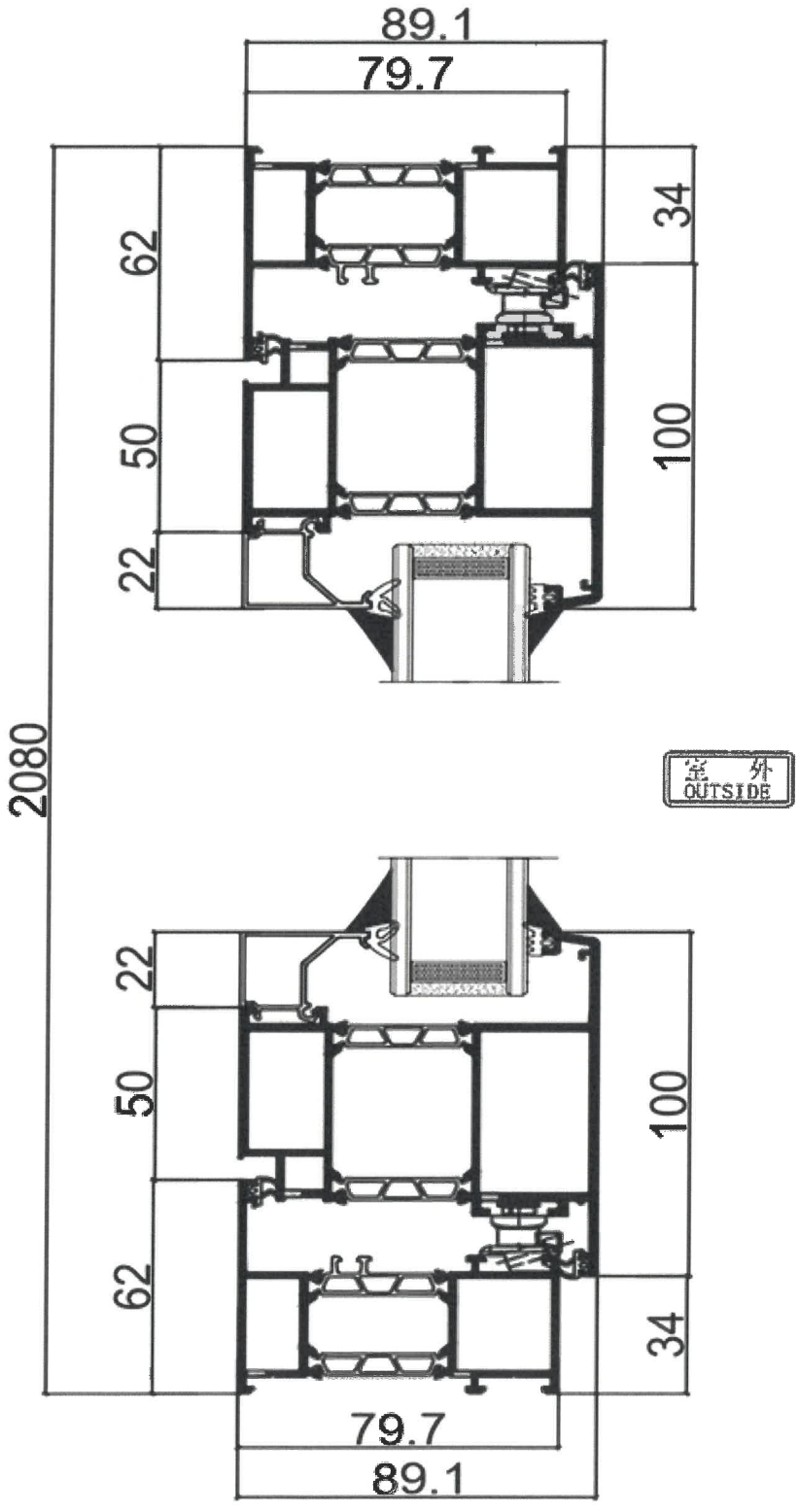
Table 1: Specification of the representative test specimen, 1pc, ID: S221114007SHF.001

2 Manufacturer: **Foshan Wansley Industrial Co., Ltd.**		
3 Window (door) system name / construction type (window, door, casement door): R90 series side-hinged door		
4 Specification of components and their manufacturing plans; fill in material and the manufacturer´s marking		
- main profiles **Manufacturer /Supplier:** Sihui Aoli Aluminum Co., Ltd.	**marking:** frame, sample dimensions (frame) **B** x **H**: 985mm x 2080mm	**marking:** casement (leaf), casement(s) dimensions: **b** x **h**: 916mm x 2012mm
- thermal break **Manufacturer /Supplier:** Foshan Qisheng Technology Co., Ltd.	**Manufacturer, supplier, marking,** thickness (mm):35.3mm Model: HK35.3B；HK35.3G；HK35.3； Material: PA66GF25 Nylon insulation strip；	**Manufacturer, supplier, marking ,** thickness (mm):35.3mm Model: HK35.3B；HK35.3G；HK35.3； Material: PA66GF25 Nylon insulation strip；
- other profiles **Manufacturer /Supplier:** Sihui Aoli Aluminum Co., Ltd.	**marking:** false mullion + cover, mullions and transoms, glazing bars, threshold profiles, casement weather mouldings (casement water bars)	
	glazing bars 43 mm	
- opening joint sealing (preformed gaskets, weather stripping) **Manufacturer /Supplier:** Jiangyin Haida Rubber and Plastic Co., Ltd.	**marking:** interior (internal) preformed gasket, design in the corners* into a groove design in the corners: continuously bent in the corners	**marking:** central preformed gasket, design in the corners* Glazing beads, with preformed gasket into a groove, cut in the corners
	marking: exterior (external) preformed gasket, design in the corners: continuously bent in the corners	**marking:** threshold preformed gasket (wiping on the leaf) -
- sealing of glazing **Manufacturer /Supplier:** Jiangyin Haida Rubber and Plastic Co., Ltd.	**marking:** external glazing, design in the corners* continuously bent in the corners	**marking:** glazing bead and preformed gasket * continuously bent in the corners
Insulating glass, infill **Manufacturer /Supplier:** Jiangmen Junfa Safety Glass Co., Ltd.	**marking** and composition of the glazing and infills Insulating glass thickness of 5 mm, composition: 27mm Argon, molecular sieve,aluminum profile, epoxy resin, butyl rubber	
5 Draining and decompression of casement /glazing groove (rebate)/: at the bottom of 3 openings 30mm*5mm output profile		
6 Draining and decompression of frame (opening joint): The bottom rubber strips were excised		
7 Building hardware (fittings) (type marking and manufacturer): Model:GS-TD; Manufacturer: Schlegel Giesse (GIESSE HARDWARE MENTAL CO.,LTD) Model:MZS20; Manufacturer: Guangdong Kinlong Hardware Products Co., Ltd.		
Exit devices (bolts) (right, left casement, others): number of perimeter points, operating way, auxiliary thrusts, special points Type: GS-TD: Left: 5x point + microventilation, operating by 2x handle with safety lock; Right:4x turn hinge, 2x point Top:1x point Bottom:1x point		
Hinges (right, left casement, other): sort (turn, tilt and turn) Type: GS-TD: Right:4x turn hinge		
8 Frame joints design and additional notes: Aluminum corner code connection, stainless steel bolts fixed； Internal glue injection		
9 Notice: *design of preformed gaskets in the corners: continuously bent, slit (notched), cut and glued		
10 Date and Place of Elaborating (Sampling), Signature:	QIU SHU YONG 11-11-2022 Dali Town, Foshan City, Guangdong Province, China	

Drawing 1: Specification of the representative test specimen, 1pc, ID: S221114007SHF.001

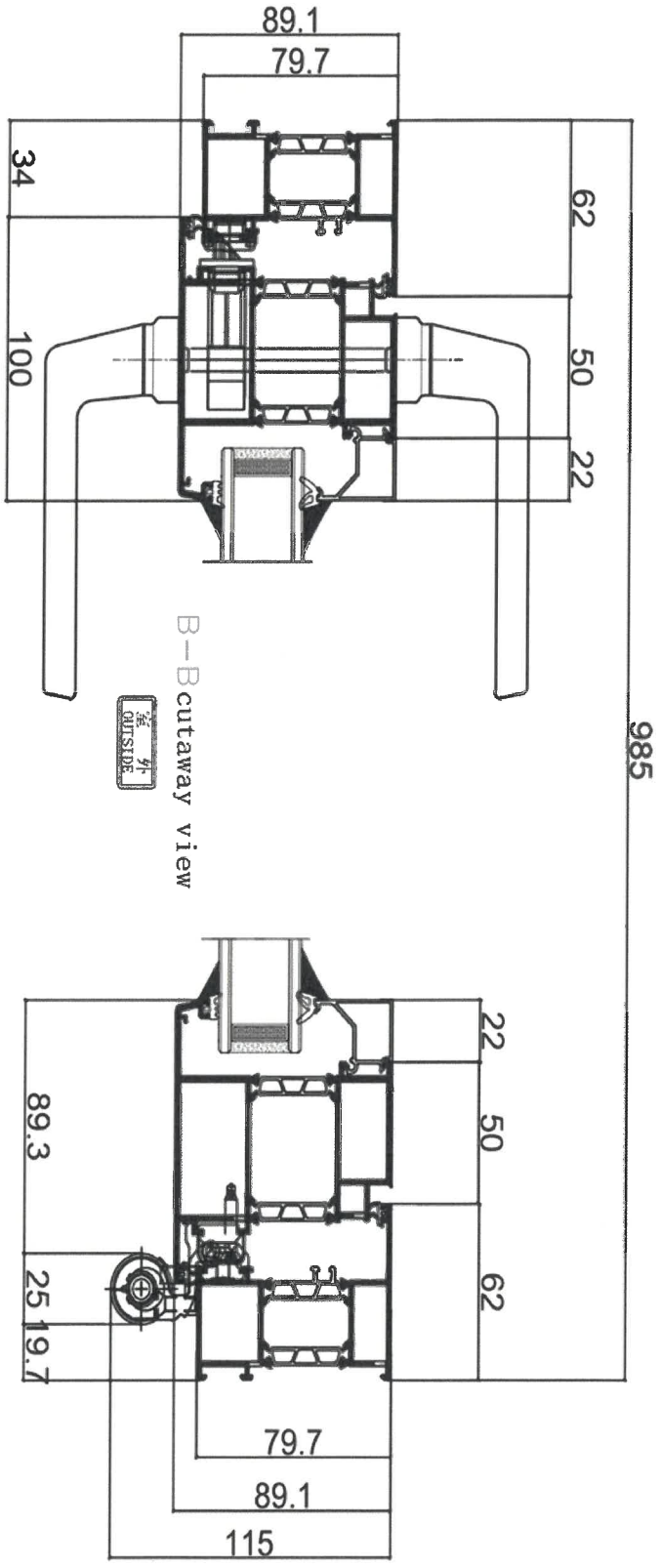


Drawing 2: Specification of the representative test specimen, 1pc, ID: S221114007SHF.001



A—A cutaway view

Drawing 3: Specification of the representative test specimen, 1pc, ID: S221114007SHF.001



2.5. Place and date of the tests

Intertek Testing Services Ltd., Shanghai, accredited test laboratory No. TL-394, Shanghai, China.

In connection with the current pandemic situation caused by the extension of SARS-CoV-2 (COVID-19) (hereinafter referred to as "coronavirus") and actions taken by individual countries, the possibility of compliance activities by conformity assessment bodies in the standard way has been significantly reduced.

In order to protect the personnel of conformity assessment bodies from spread of the coronavirus infection, to minimize negative impact on public health and economy and ensure adequate compliance procedures, the ITC issued on 2020-03-14 the so-called Precedential Decision of the Director of Certification Division No. 2020-03-14, which applies to audits in extraordinary circumstances.

Meeting provisions of this document, the testing was witnessed remotely by the representatives of the NB 1023, Mr. Josef Vanek. Testing was performed on 9th December 2022.

2.6. Test results

The results of determination of the performances are shown in Table 2, Table 3 and Annex 1 and Annex 2.

Table 2: Results of determination of air permeability and resistance to wind load

Test specimen	Reference air permeability at 100 Pa (before wind load) related to		Classification of air permeability related to the overall area / to the length of joints **Final classification of air permeability** (also with regard to pressure dependence of air permeability – see Annex 1)	Reference air permeability at 100 Pa (after wind load P1, P2) related to		Requirement for maximum air permeability (120 % of upper limit value) at 100 Pa for the **given class** (after wind load) related to		Repeated pressure test (P2) Safety test (P3)	Relative frontal deflection at P1 (mm) **(Final classification of resistance to wind load)**
	the overall area $m^3/(h.m^2)$	the length of joint $m^3/(h.m)$		the overall area $m^3/(h.m^2)$	the length of joint $m^3/(h.m)$	the overall area $m^3/(h.m^2)$	the length of joint $m^3/(h.m)$		
A	4.02	1.41	3/3 **3**	5.41	1.89	10.8 class 3	2.7 class 3	No damage	1/2608 1/20860 **(CE3333)**

Table 3: Results of determination of watertightness

Test specimen	Watertightness		**Final classification of watertightness**
	Limit of watertightness P_{max} (Pa)	Water penetration time	
A	1050 Pa	After 300 seconds at 1050 Pa, there was no water penetration.	**E1050**

Note: After passing the watertightness test at a pressure of 1050 Pa, the testing was stopped at the manufacturer's request. Testing at higher pressure was not required by the manufacturer.

3. Conclusion

Notified Body NB 1023 has carried out the assessment of performance in accordance with the paragraph 1.4 of Annex V to the Regulation (EU) No 305/2011, as amended for the product specified in the Art. 2.4 of this Report **and concluded that** all requirements of this paragraph of the above Regulation and the relevant harmonized standard have been met and this report may be issued as a basis for affixing CE marking to these products.

This Report is applicable only to products identically marked and named, such as those which were the subject to testing, provided that the products characteristics have not been changed or no significant changes in their production (materials, technology, manufacturing equipment, etc.) have been done.

4. List of the documents used for the Test Report elaborating

- Application No. 755200247 for assessment of CE-marked construction products
- ČSN EN 14351-1+A2 (74 6075): Okna a dveře – Norma výrobku, funkční vlastnosti – Část 1: Okna a vnější dveře (Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets)
- Test Report No. 221114007SHF-001, elaborated by Intertek Testing Services Shenzhen Ltd., Shanghai Fengxian Branch, accredited test laboratory No. TL-394 in Shanghai, issued on 15th December 2022
- Manufacturer´s REACH declaration from 11th November 2022
- Specification of a representative test specimen

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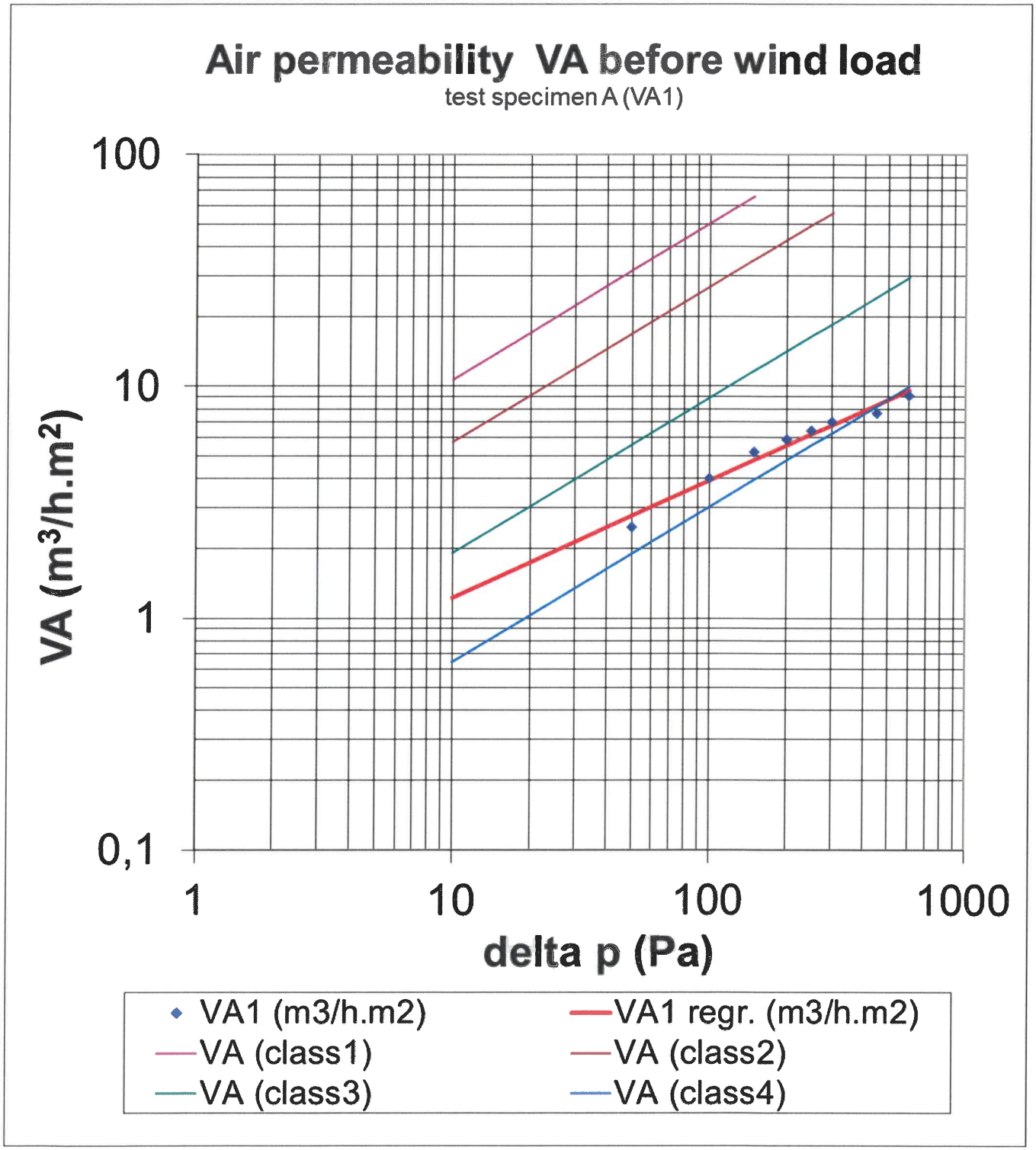
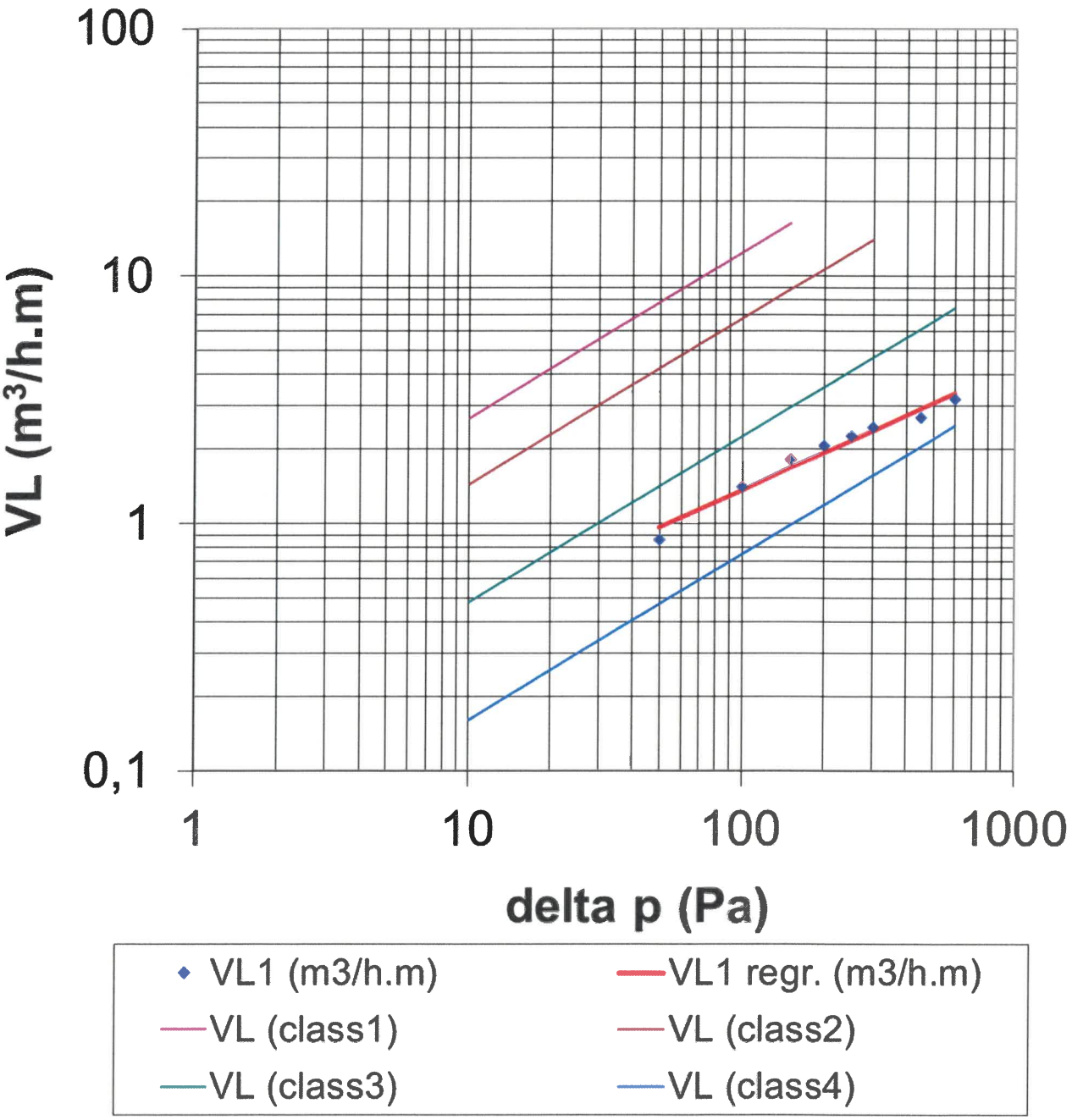
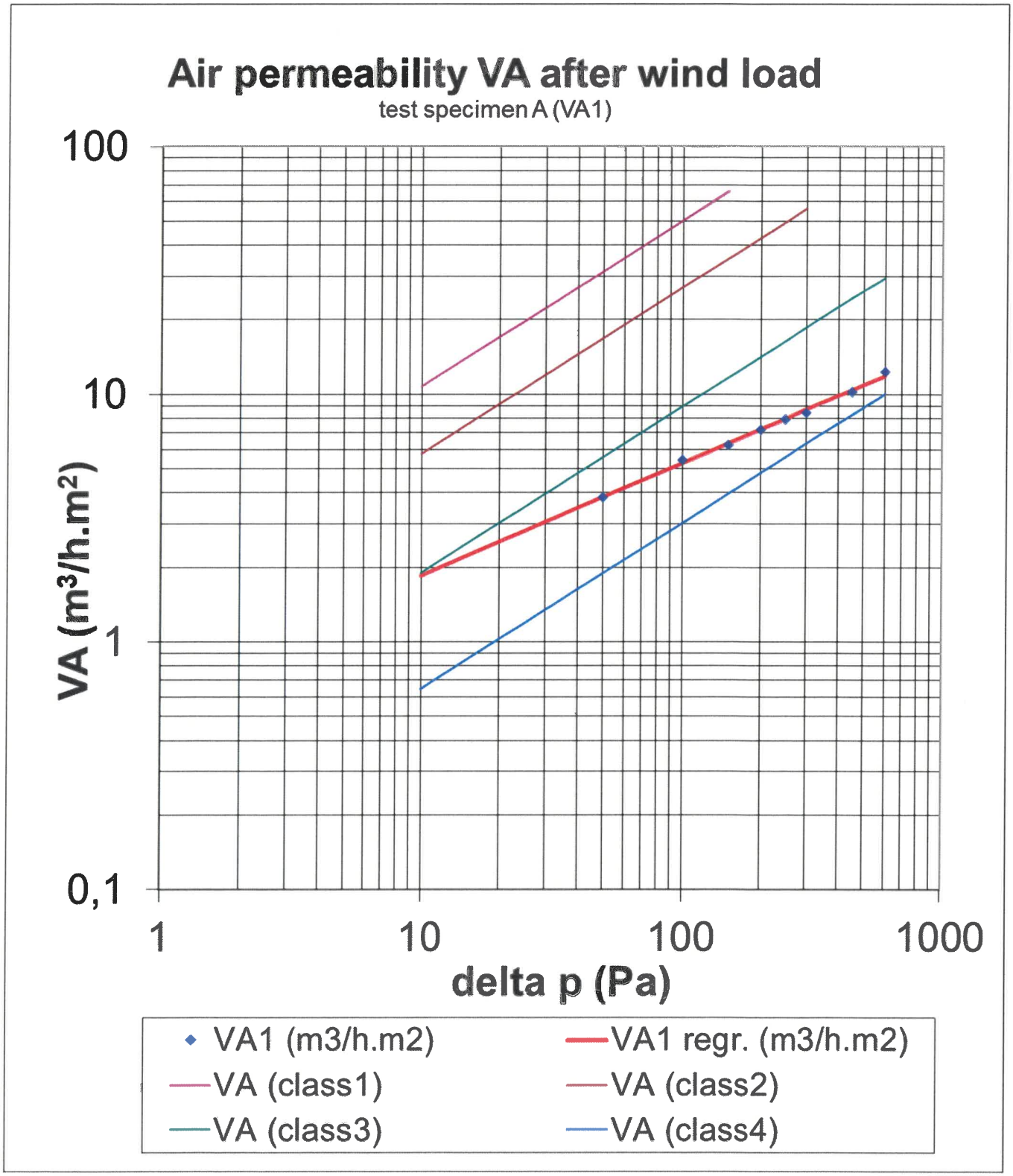
Annex 1: Results and classification of air permeability

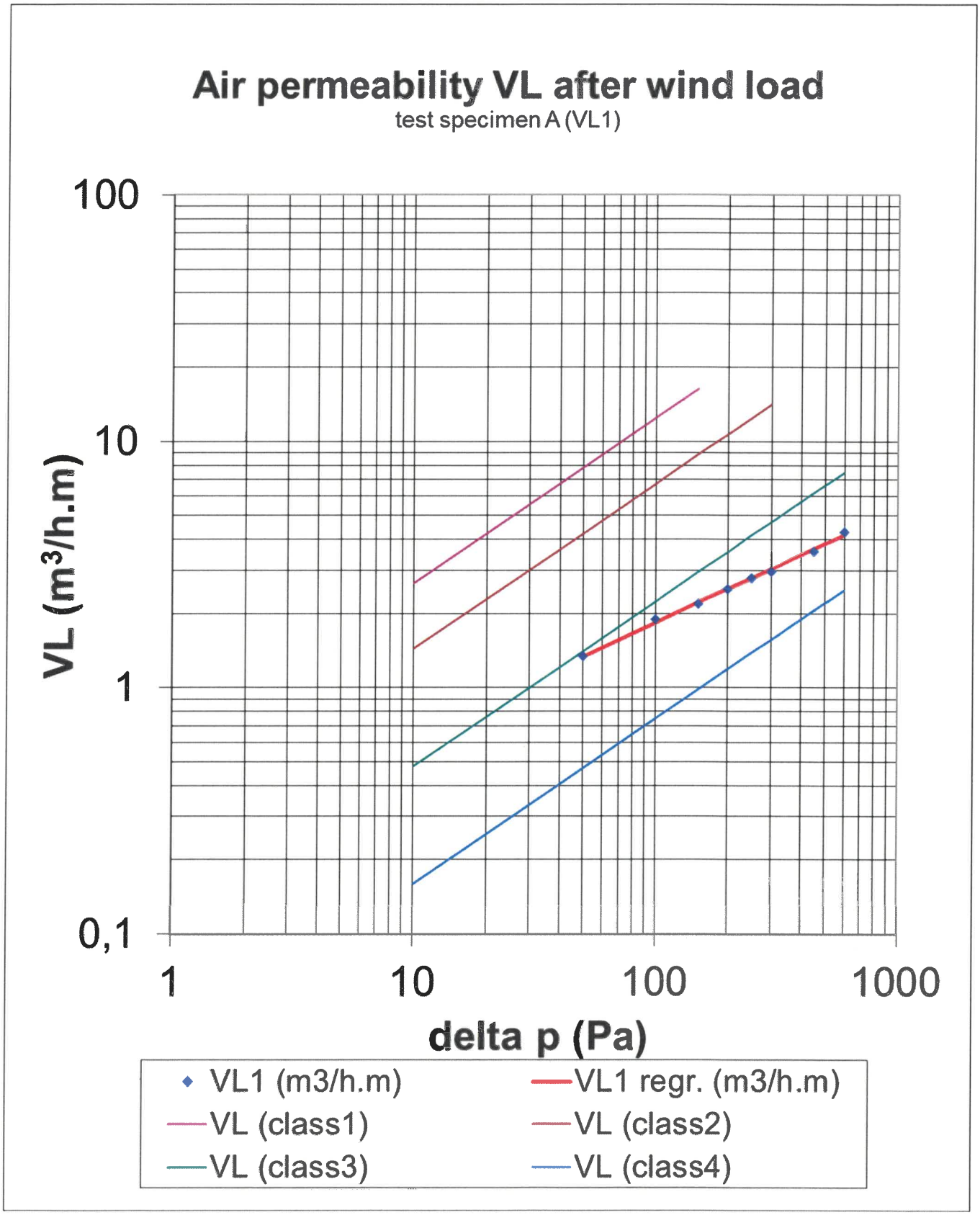


Air permeability VL before wind load

test specimen A (VL1)



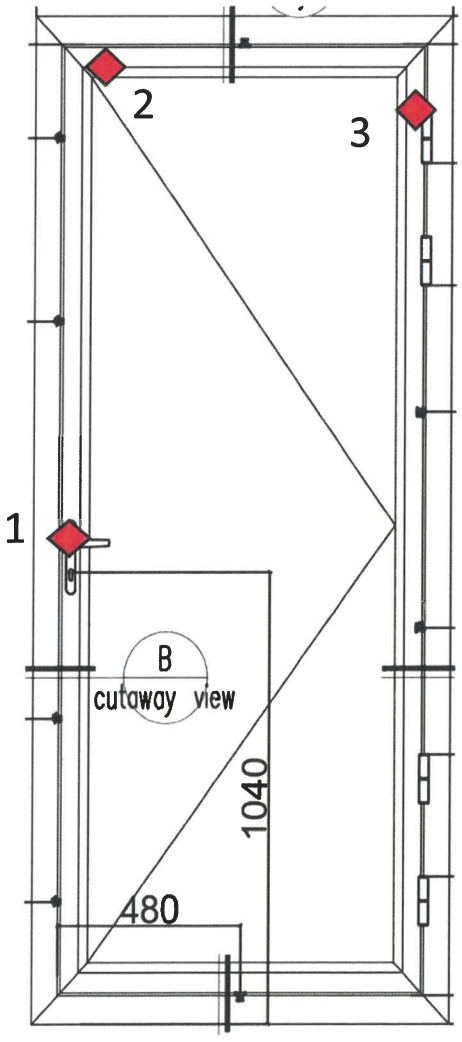

Air permeability VA after wind load
test specimen A (VA1)
100
10
1
0,1
VA (m³/h.m²)
1
10
100
1000
delta p (Pa)
VA1 (m3/h.m2)
VA1 regr. (m3/h.m2)
VA (class1)
VA (class2)
VA (class3)
VA (class4)


Air permeability VL after wind load
test specimen A (VL1)
100
10
1
0,1
VL (m³/h.m)
1
10
100
1000
delta p (Pa)
VL1 (m3/h.m)
VL1 regr. (m3/h.m)
VL (class1)
VL (class2)
VL (class3)
VL (class4)

Annex 2: Deflection measurement results

Table 4: Resistance to wind load – measurement results

Deflection meter (gauge) No.	Frontal displacement (deflection) values (mm)							
	Positive pressure $+P_1$	Zero pressure P_0	Frontal deflection F_p	Relative frontal deflection $F_{rp} = F_p / L$	Negative pressure $-P_1$	Zero pressure P_0	Frontal deflection F_p	Relative frontal deflection $F_{rp} = F_p / L$
1	3.0	< 0.1	0.8	**1/2608**	1.4	0.1	< 0.1	**< 1/20860**
2	2.6	< 0.1			0.7	0.1		
3	0.6	< 0.1			0.5	< 0.1		



(1, 2, 3 are location of gauges)
L1 = 1010 mm
L2 = 916 mm
L3 = 160 mm

Figure 1: Fixing and measurement points

Annex 3: Test sample

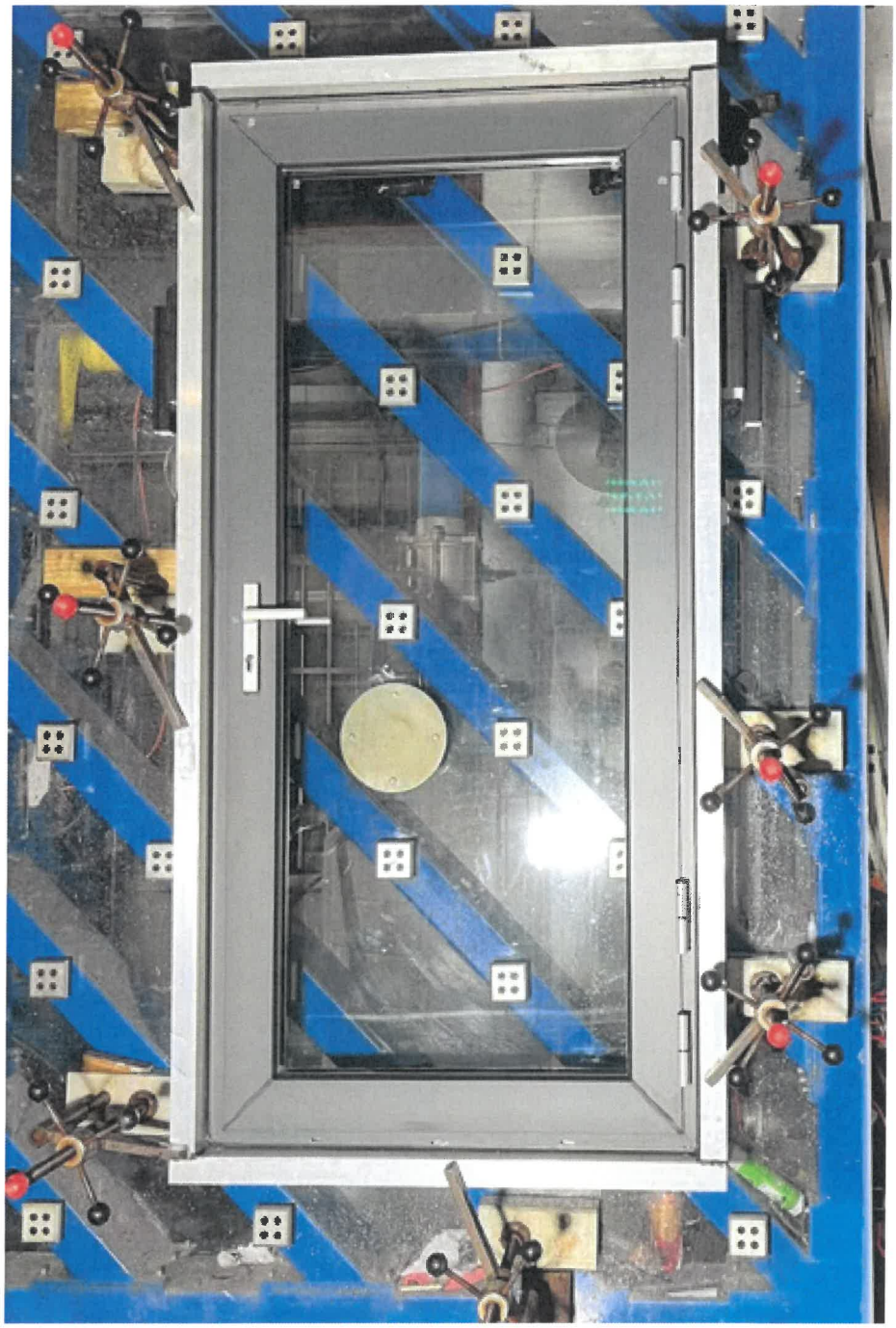


Figure 2: Test sample

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