



INSTITUTE FOR TESTING AND CERTIFICATION
T. BATI 299, 764 21 ZLÍN, CZECH REPUBLIC

TEST REPORT

Reference No. 75 35 00359/ 2009

Applicant: YIWU OURUI IMPORT & EXPORT LTD
BAIYANG INDUSTRIAL ZONE, WUYI
ZHEJIANG, CHINA

Product: External pedestrian steel door,
type (model): TN-G118, TN-G110, TN-D001
TN-D002, TN-G, TN-D

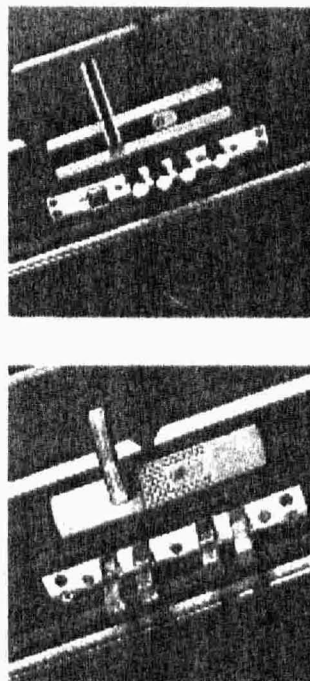
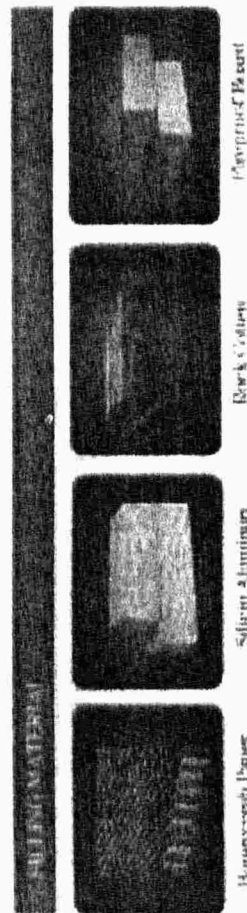
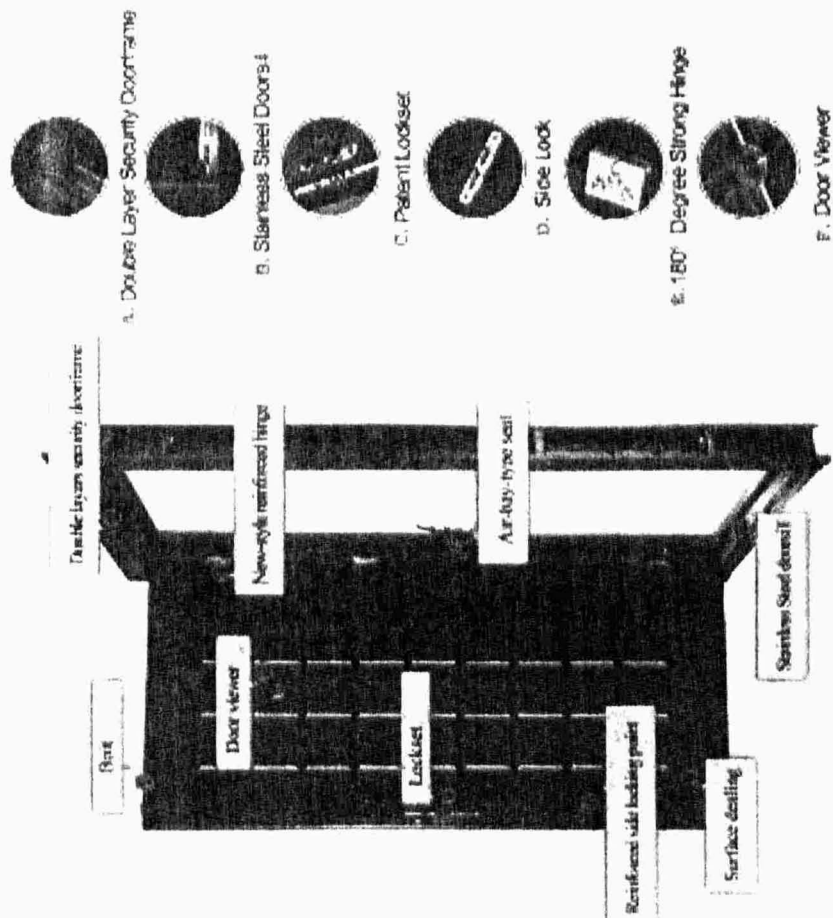
Manufacturer: ZHEJIANG TOPWIN DOORS CO., LTD
BAIYANG INDUSTRIAL ZONE, WUYI
ZHEJIANG, CHINA

Elaborated by: Dipl. Ing. Milan Kovář

Issued on: 11th. December 2009



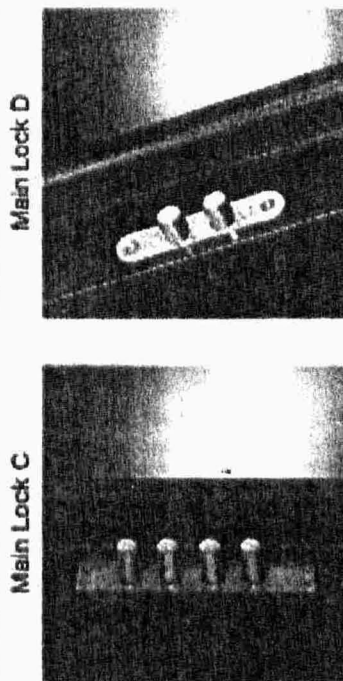
R. Radomír Čevelík
RNDr. Radomír Čevelík
Representative of Notified Body No. 1023



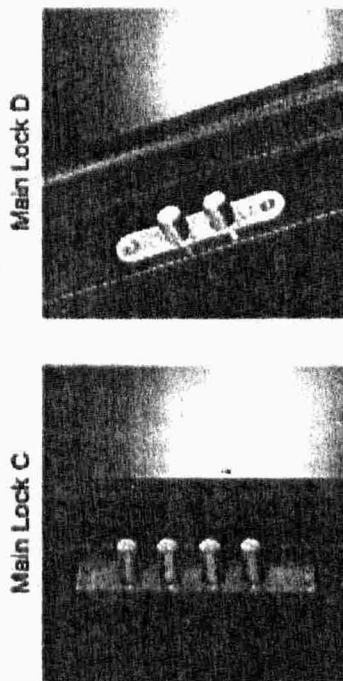
Main Lock A



Main Lock B



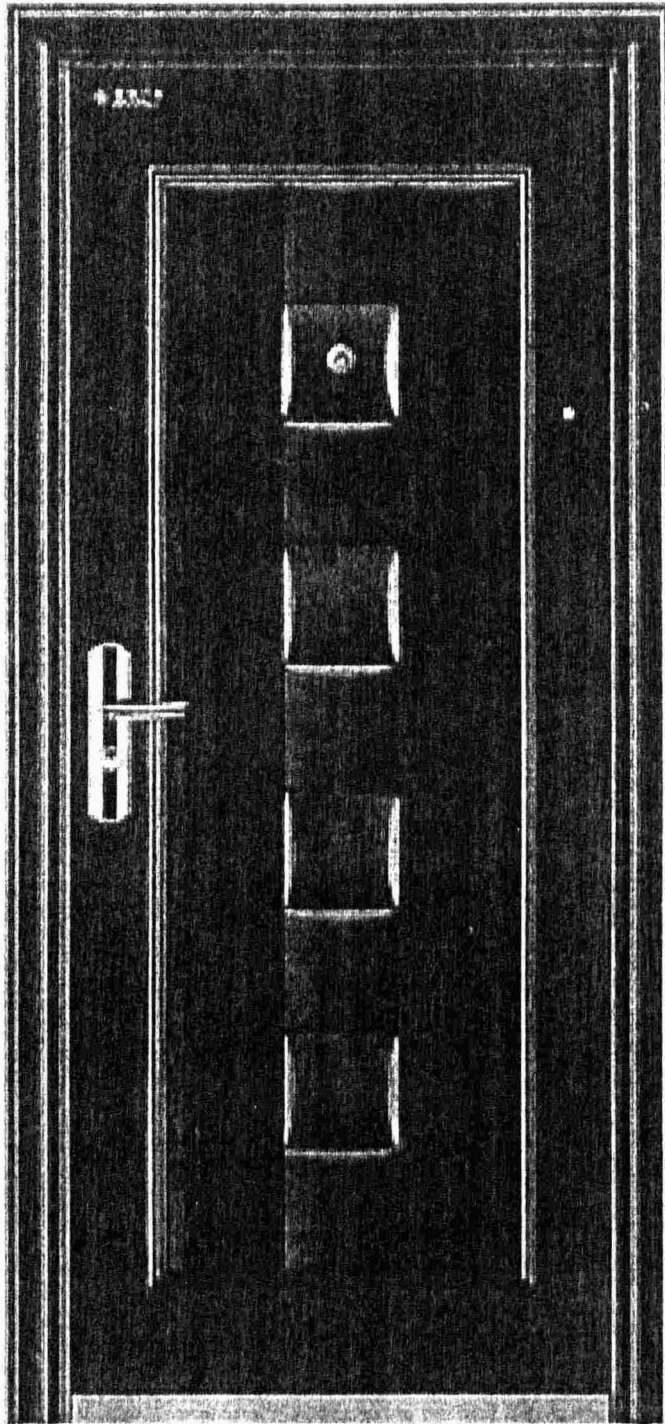
Main Lock C

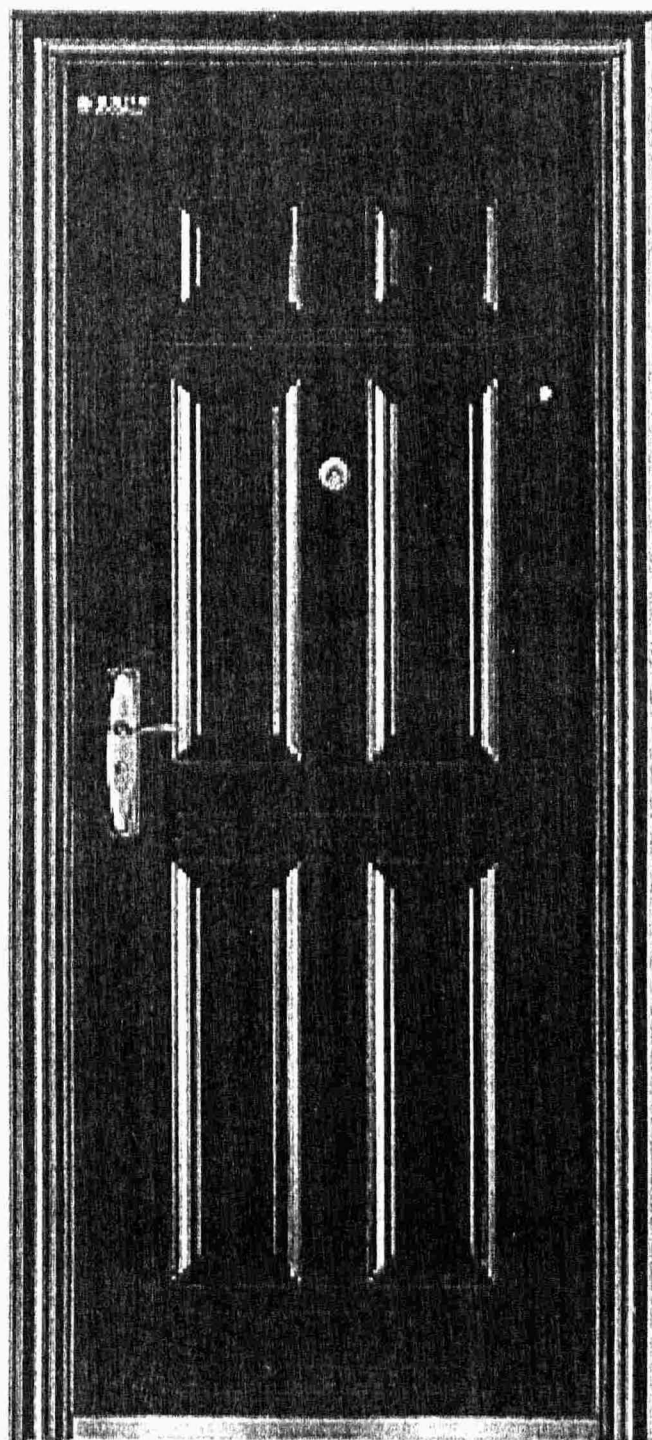


Main Lock D

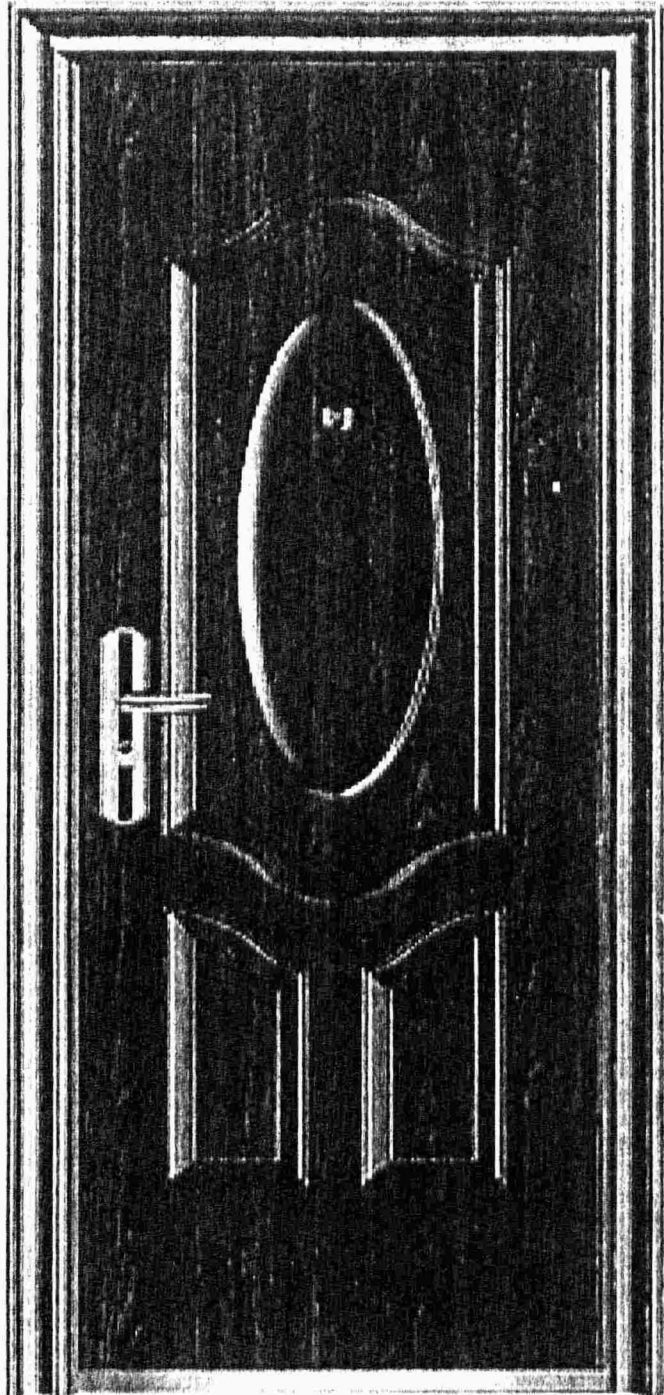
Side Lock 01

Side Lock 02





APPENDIX B Product Patterns





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Annex 2: Deflection measurement results

Table 4 – Test specimen A

Deflection meter (gauge) No.	Frontal displacement (deflection) values (mm)							
	Positive pressure +P1	Zero pressure P ₀	Frontal deflection F _p	Relative frontal deflection $F_{rp} = F_p/L$	Negative pressure -P1	Zero pressure P ₀	Frontal deflection F _p	Relative frontal deflection $F_{rp} = F_p/L$
2 - top	1.2	0.0	0.05	1/40000	0.9	0.0	0.10	1/20000
6 - middle	1.9	0.0			1.9	0.1		
3 - bottom	2.5	0.0			2.6	0.1		

L = 2000 mm



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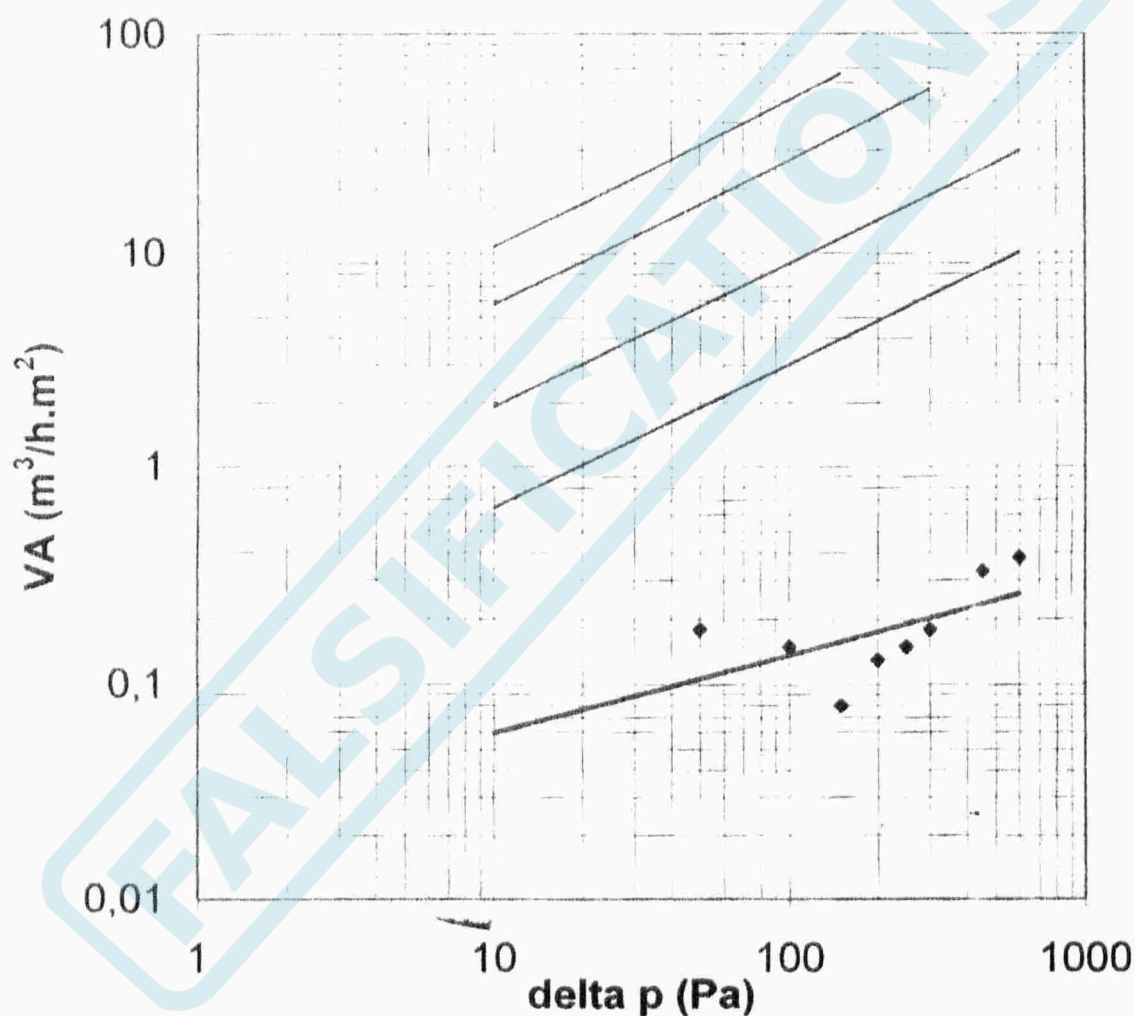
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Air permeability VA after wind load

test specimen A (VA1)



- VA1 ($\text{m}^3/\text{h} \cdot \text{m}^2$)
- VA (class1)
- VA (class3)
- VA1 regr. ($\text{m}^3/\text{h} \cdot \text{m}^2$)
- VA (class2)
- VA (class4)



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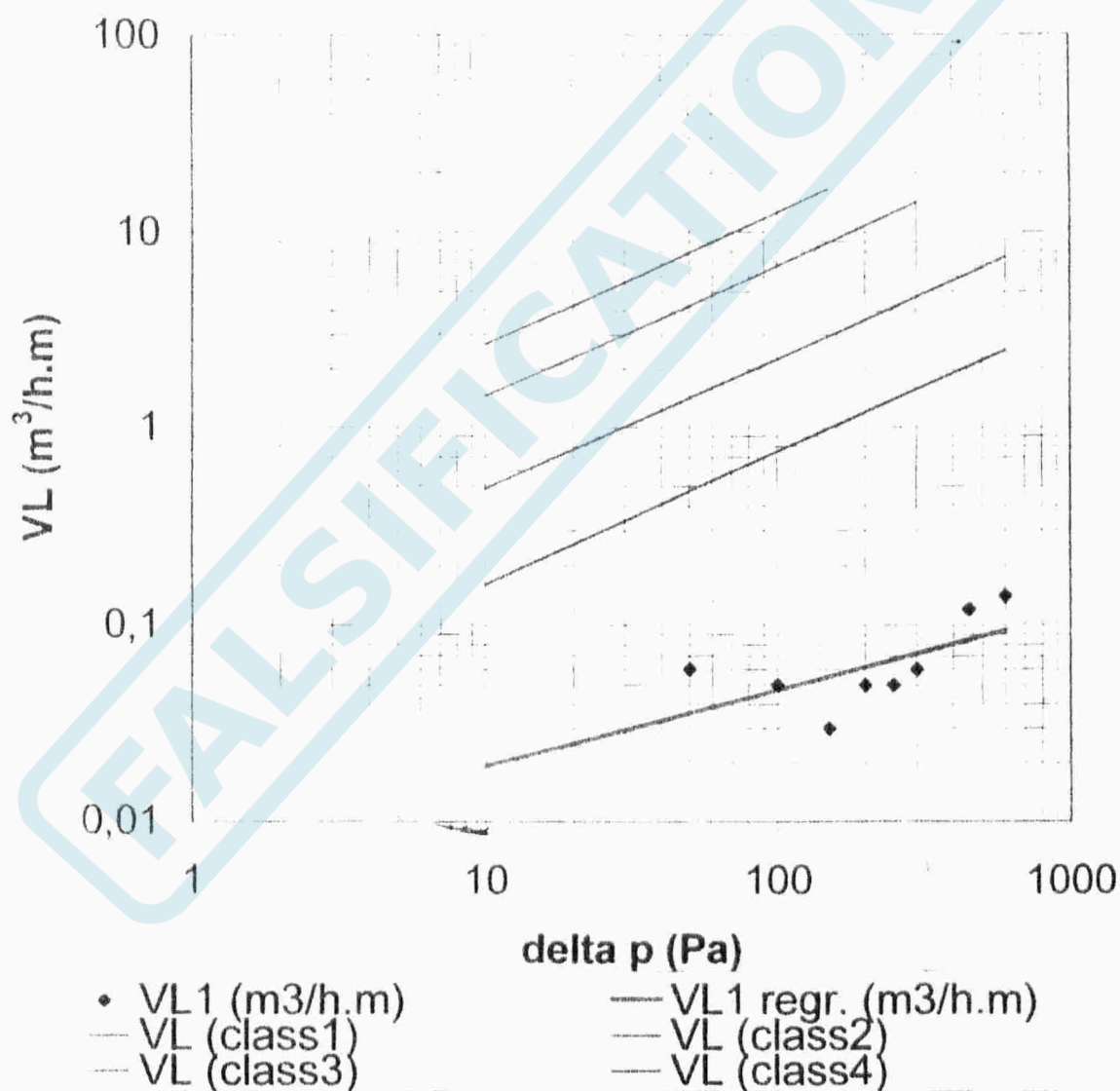
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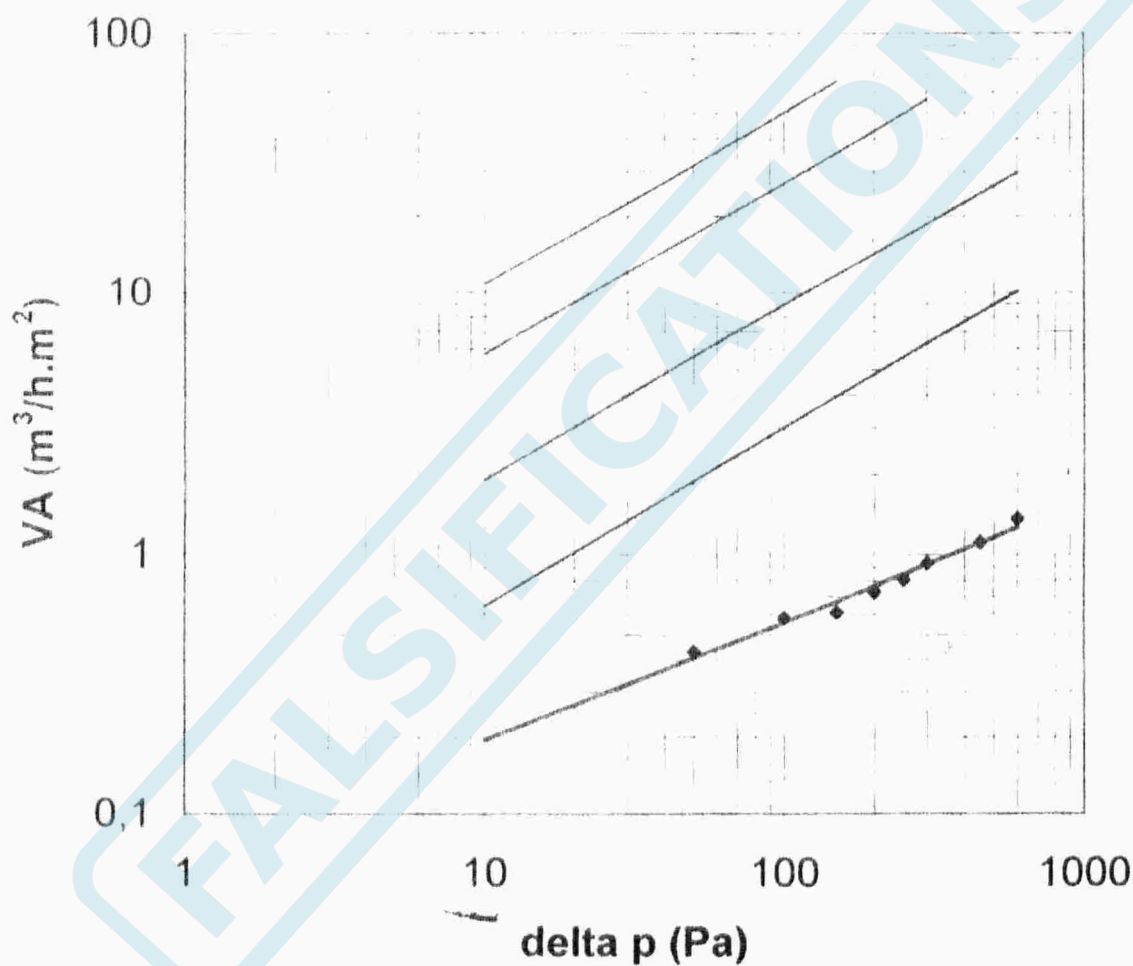
Air permeability VL after wind load

test specimen A (VL1)



Air permeability VA before wind load

test specimen A (VA1)



- VA1 (m3/h.m2)
- VA (class1)
- VA (class3)
- VA1 regr. (m3/h.m2)
- VA (class2)
- VA (class4)



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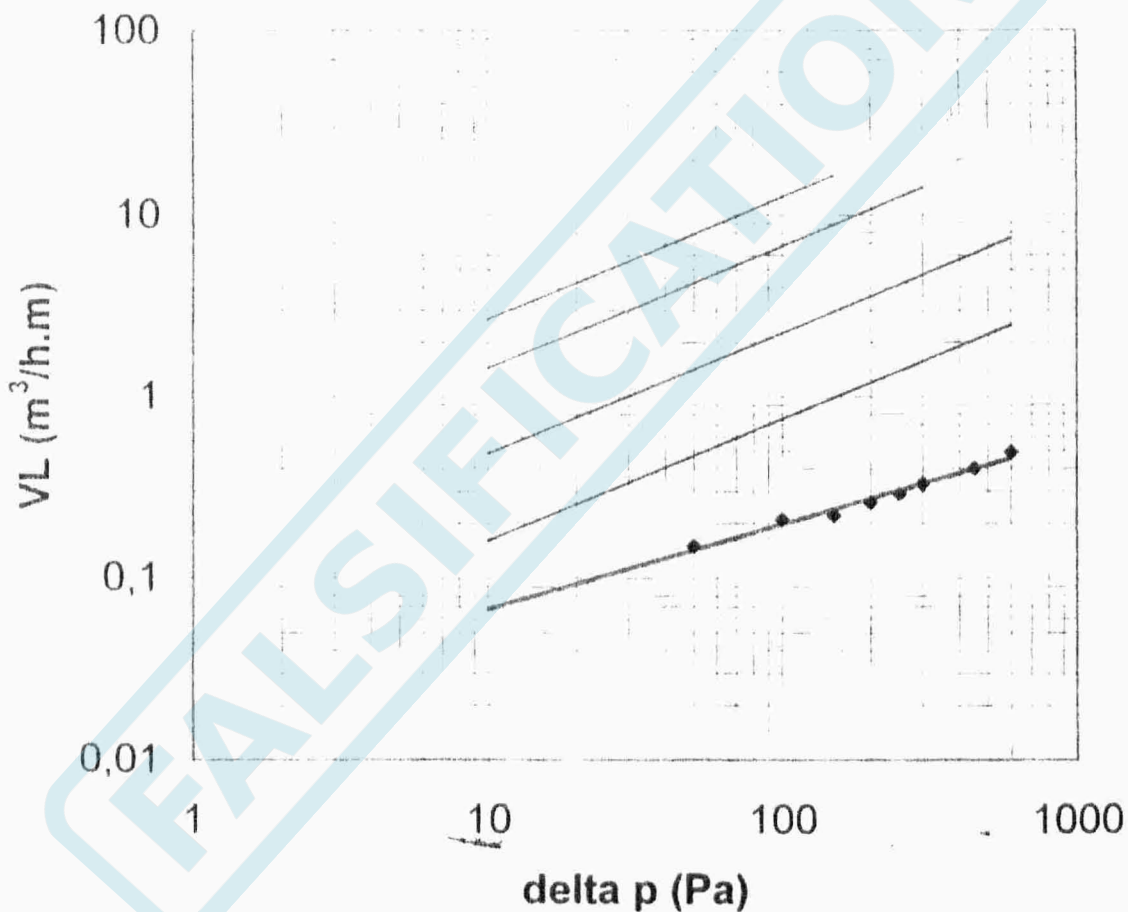
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Annex 1 Results and classification of air permeability

Air permeability VL before wind load

test specimen A (VL1)



• VL1 (m³/h.m)

— VL (class1)

— VL (class3)

— VL1 regr. (m³/h.m)

— VL (class2)

— VL (class4)



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doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics)

- Test Report, reference No. AU09114013-3, elaborated by Intertek Testing Services Ltd., Shanghai JinQiao Branch, accredited test laboratory No. TL-394, Shanghai, China on 10th December 2009
- Manufacturer's REACH declaration
- Checklist for assessment of selected elements of maintained quality system and laboratory technical capacity according to requirements of the Standard EN ISO/IEC 17025 – General requirements for the competence of testing and calibration laboratories, worked out for Intertek Testing Services Ltd, Shanghai JinQiao Branch on 29. 6. 2009
- Specification of the test specimen representative



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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	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 $m^3/(h \cdot m^2)$	the length of joint $m^3/(h \cdot m)$		the overall area $m^3/(h \cdot m^2)$	the length of joint $m^3/(h \cdot m)$	the overall area $m^3/(h \cdot m^2)$	the length of joint $m^3/(h \cdot m)$		
A	0.58	0.21	4/4 4 (also with regard to pressure dependence of air permeability – see Annex 1)	0.15	0.05	3.6 (class 4)	0.90 (class 4)	No damage	1/40000 1/20000 (C2)

Table 3 – Results of determination of watertightness

Test specimen	Watertightness (method 1A)	
	Limit of watertightness P_{max} (Pa) (classification)	Water penetration time
A	100 (3A)	32 s at 150 Pa (water penetration at the bottom corner of threshold at the hinge edge of door)

5. A list of documents used to elaborate the Test Report

- Application No. 753500359 for conformity assessment of CE-marked construction products
- Government Order No. 190/2002, Collection of Laws, as amended
- ČSN EN 14351-1 (74 6075): Okna a dveře – Norma výrobku, funkční vlastnosti – Část 1: Okna a vnější dveře bez vlastností požární odolnosti a/nebo kouřotěsnosti (Windows and



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2.3. Sampling place and number of samples taken

The samples have been delivered by the applicant in the following scope:

- Single side-hung external pedestrian steel door, opening outwards, right, S6032 type (model) (1 pc)

The sample (test specimen) was registered under the registration (ID) number. S0911053 (on 15th November 2009) in the Intertek's test laboratory.

3. Place and date of testing

- Intertek Testing Services Ltd., Shanghai JinQiao Branch, accredited test laboratory No. TL-394, Shanghai, China (30th November 2009)

The testing was witnessed by the representative of the NB 1023, Milan Kovář

4. Test results

The results of determination of the properties are shown in Tables 2, 3 and Annexes 1, 2.



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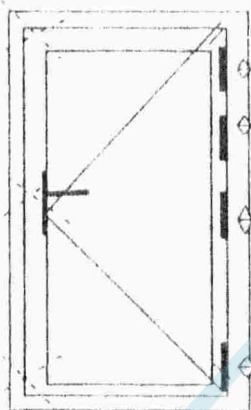
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Turn hinge

Deflection measurement place



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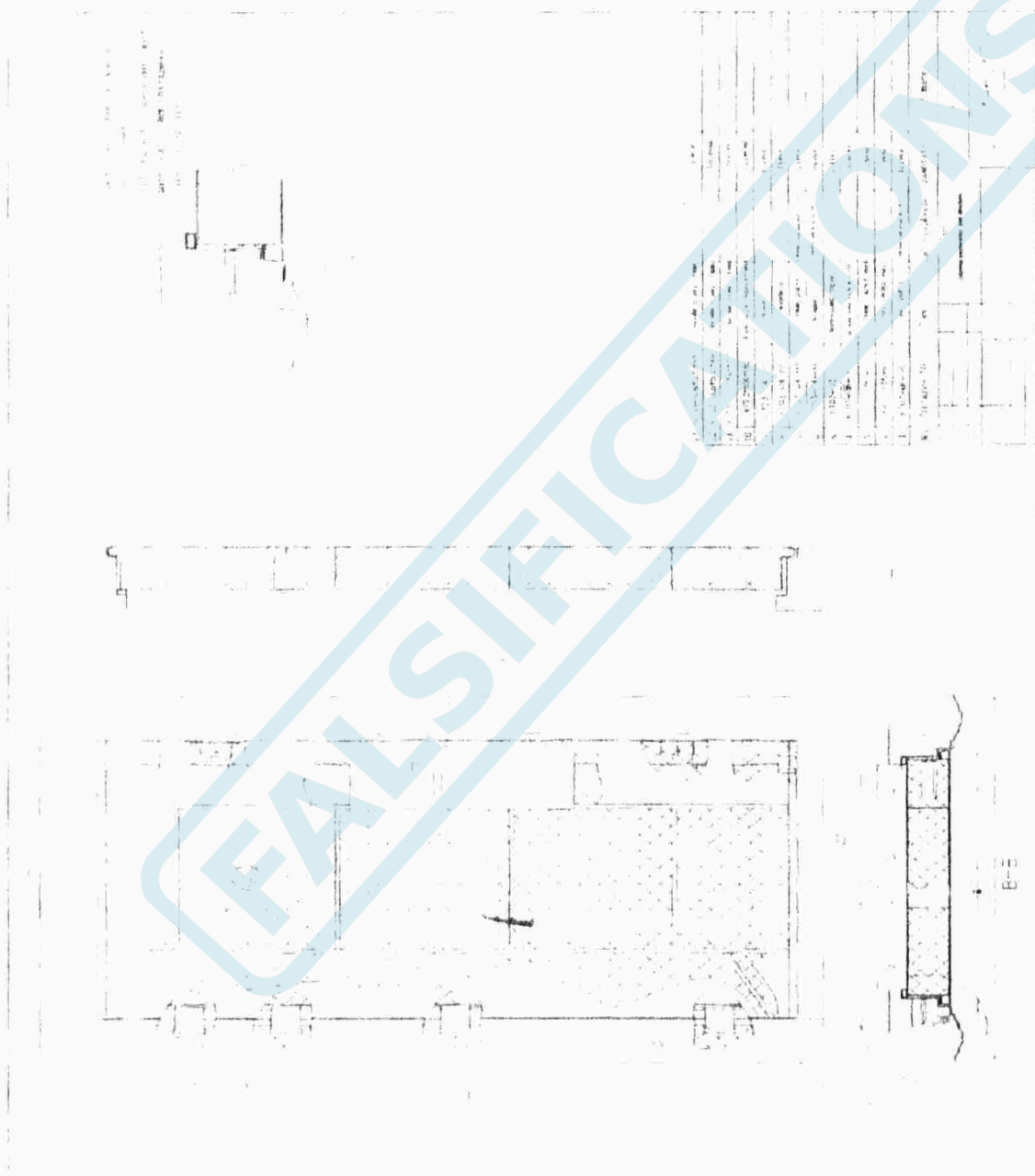
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2.2 Representative test specimen (A) structure sections and drawings

2.2.1 Representative test specimen A





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2.1 Representative Test Specimens Description

A Single side-hung external pedestrian steel door, opening outwards, right, TH-G118 type (model)

Table 1 – Specification of the A representative test specimen (ID: S0911053)

1 Manufacturer: ZHEJIANG TOPWIN DOORS.,LTD		
2 Window (door) system name / construction type (window, door, casement door): External pedestrian steel door, opening outwards / right door		
3 Specification of components and their manufacturing plans, fill in material and the manufacturer's marking		
- main profiles manufacturer, supplier: ZHEJIANG TOPWIN DOORS.,LTD	marking: frame, sample (frame) dimensions B x H: 960 x2100 mm	marking: casement (leaf), casement (s) dimensions b x h: 865 x2015 mm
- thermal break	Manufacturer, supplier, marking, thickness (mm): Nor applicable	Manufacturer, supplier, marking, thickness (mm): Not applicable
- other profiles manufacturer, supplier: ZHEJIANG TOPWIN DOORS.,LTD	marking: false mullion + cover, mullions and transoms, glazing bars, threshold profiles, casement weather mouldings (casement water bars), Stainless threshold	
- opening joint sealing (preformed gaskets, weather stripping) manufacturer, supplier: ZHEJIANG TOPWIN DOORS.,LTD	marking: interior (internal) preformed gasket, design in the corners* Rubber seal 13*7mm 12*2mm around the edge of door leaf	marking: central preformed gasket, design in the corners* Not applicable
	marking: exterior (external) preformed gasket, design in the corners* Not applicable	marking: threshold preformed gasket (wiping on the leaf) Not applicable
- sealing of glazing manufacturer, supplier:	marking: external glazing, design in the corners* Not applicable	marking: glazing bead and preformed gasket * Not applicable
Insulating glass, infill manufacturer, supplier:	marking and composition of the glazing and infills Not applicable	
4 Draining and decompression of casement /glazing groove (rebate)/: (e.g. at the bottom of 3 openings (5x30 mm) input profile, 2 openings (5x28 mm) with cover output profile; top external preformed gasket is 2x interrupted in the same length of 50 mm). Not applicable		
5 Draining and decompression of frame (opening joint): Not applicable		
6 Building hardware (fittings) (type marking and manufacturer):		
Exit devices (bolts) (right, left casement, others) number of perimeter points, operating way, auxiliary thrusts, special pointsAB lock Manufacturer: ZHEJIANG TOPWIN DOORS.,LTD		
Hinges (right, left casement, other): sort (turn, tilt and turn): Four invisible hinges,Manufacturer: ZHEJIANG TOPWIN DOORS.,LTD		
7 Frame joints design and additional notes: Not applicable		



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1. Assessment of conformity with essential requirements of the Government Order No. 190/2002, Collection of Laws as amended

External doors (pedestrian doorsets) as construction products are assessed on the basis of relevant clauses of the Construction Products Directive (CPD) - Council Directive 89/106/EEC from 21st December 1989 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products as amended by Council Directive 93/68/EC. The Directive has been implemented to the Czech legislative as the Government Order No. 190/2002 Collection of Laws.

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 etc. with equal requirements.

1.1 Conformity assessment procedure

The submitted product is assessed pursuant to Section 5, Subsection 1, letter b (system 3) of the Government Order No. 190/2002 (Collection of Laws) as amended.

The initial type testing was carried out according to the Annex ZA of the standard ČSN EN 14351-1.

1.2 Indicators specifying essential requirements

The initial type testing was carried out using the Intertek's (Chinese accredited test laboratory) testing facilities (witness-testing) according to the applicant's requirements covered the following range of relevant properties (ČSN EN 14351-1, table ZA.3b):

- 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
- Dangerous substances (manufacturer's REACH declaration)

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

The acoustic performance and thermal transmittance evaluation was not required by the manufacturer

2. Product specification

The manufacturer in co-operation with the Notified Body No. 1023, in accordance with the art. 7.2.5.1 of the technical standard ČSN EN 14351-1 has chosen following representative test specimen for initial type testing (ITT):