

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

TEST REPORT

Reference No. 75 35 00413/2014

Applicant: SUPERWOOD INDUSTRIES SDN BHD

24 KM, JALAN TUARAN, TELIPOK, TUARAN,

SABAH, MALAYSIA

Product: External wooden door,

type (model): TACOMA

Manufacturer: SUPERWOOD INDUSTRIES SDN BHD

24 KM, JALAN TUARAN, TELIPOK, TUARAN,

SABAH, MALAYSIA

Elaborated by: Dipl. Ing. Milan Kovář

Issued on: 20th June 2014

Reference No. 75 35 00413/ 2014

RNDr. Radomír Čevelik Representative of Notified Body No. 1023

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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 CSN 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):



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2.1 Representative Test Specimens Description

joints on strips (beads) and sealing are bottom-sealed)

(2) M4 Screw, Manufacturer. LEE TAT LEE ENTERPRISE SDN BHD (3) JCBC Screw, Manufacturer: LEE TAT LEE ENTERPRISE SDN BHD

(5) E seal, Manufacturer: LA GEEH HERR INDUSTRIAL COMPANY

A. Single side-hung external wooden door with two glazed parts, opening inwards, right, Tacoma type (model)

Manufacturer: SUPERWOOD INDUSTRIES	ntative test specimen (ID: S0910134•001)					
2 Window (door) system name / construction ty						
External wooden door with two glazed parts (Mo						
3 Specification of components and their manufamarking	acturing plans; fill in material and the manufacturer's					
- main profiles manufacturer, supplier: SUPPERWOOD SAWMILL (S) SDN BHD	Woody species, type and duality of glued joints, point design Frame dimensions B x H : 976 x 2185 mm Casement(s)dimensions b x h : 912 x 2140 mm					
- other profiles manufacturer, supplier:	Glazing beads, threshold profiles, rain cap (throating), marking					
LA GEEH HERR INDUSTRIAL COMPANY	Aluminium Threshold3					
- opening joint sealing (preformed gaskets, weather stripping) manufacturer, supplier: LA GEEH HERR INDUSTRIAL COMPANY SHARWIN FOAM INDUSTRIES(M) SDN BHD.	Interior (internal), exterior (external), central, threshold sealing Door seal, E seal, Threshold seal, plastic Polystyrene Foam					
-insulating glass (glazing), infill boards manufacturer, supplier:	Marking and composition of glazing and infill					
ORIENTAL INTERNATIONAL TRADING, HK PTE, LTD.	Triple glazing laminated tempered glass					
-sealing of glazing (glazing design)	Glazing design					
manufacturer, supplier:	E seal					
LA GEEH HERR INDUSTRIAL COMPANY SOON HING KITA SDN BHD.	Clear Silicon Gum- A3, Brand: "Super Seal"					
4 Building hardware (fittings) (marking and man	nufacturer): points hinge,					
-exit devices (bolts) and their operating (right, le espagnolette bolt, tilt flap Not applicable	ft casement, others): multi/one-point, push bolt,					
-hinges (auxiliary): (right, left casement, other),s	ort - turn, tilt and turn					
	× Hidden, Turn. Right Hinges:					
 locks: Panic building hardware (fittings), see Plastic guard, lock latch catch, latch catch, 6 poil LA GEEH HERR INDUSTRIAL COMPANY 						
5 Finish (surface treatment): Type, manufacture NC clear sealer (Brown Color), Inchem Brand, Ne ALKANA MALAYSIA SDN BHD.	r, supplier aw Paris (Paint): Bytl Cellulose (BC-01), Manufactures:					

(1) White silicon gum - RS 300, Brand: "Hardex", Manufacture: PAUMIN HARDWARE SDN BHD

(4) Clear Silicon Gum-A3, Brand: "Super Seal", Manufacturer: SOON HING KITA HARDWARE SDN BHD



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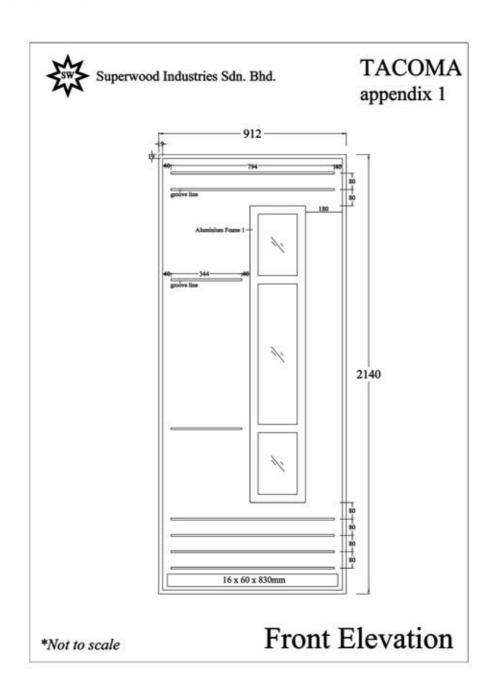
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2.2 Representative test specimen (A) structure sections and drawings

2.2.1 Representative test specimen A

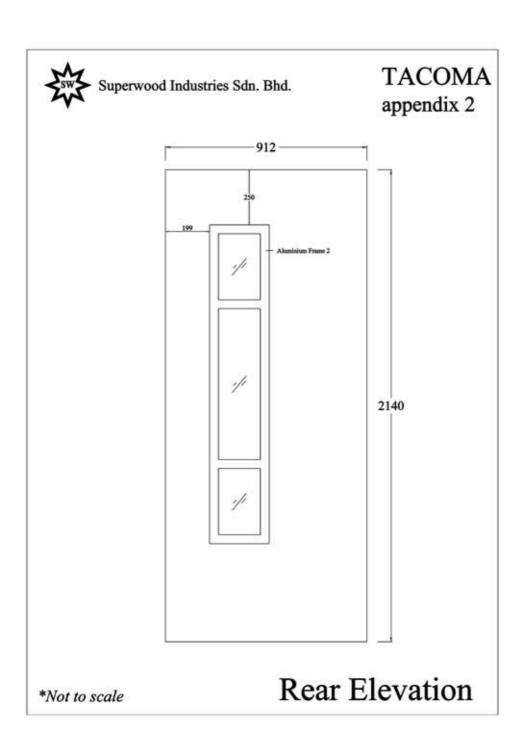




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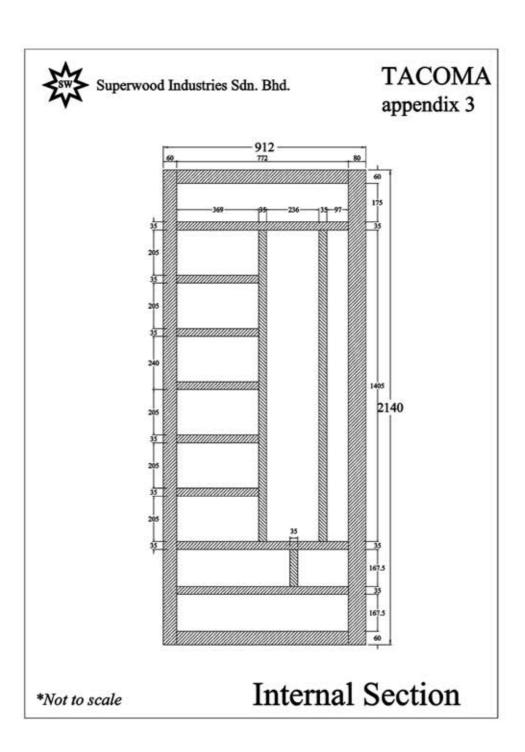




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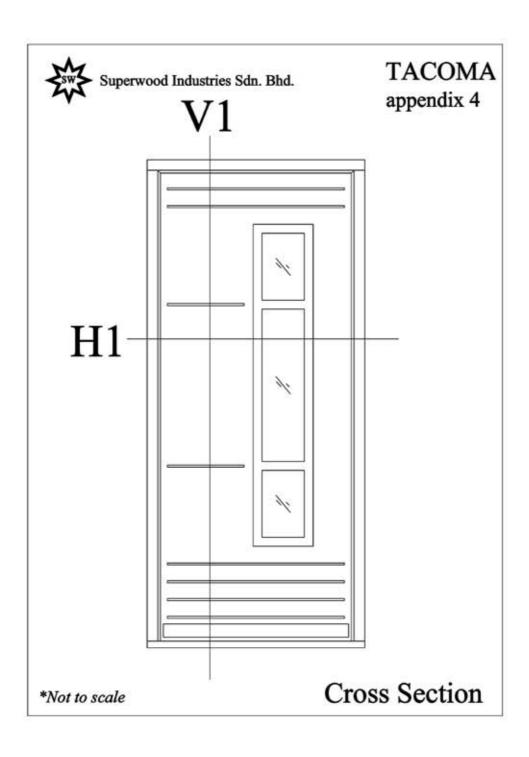




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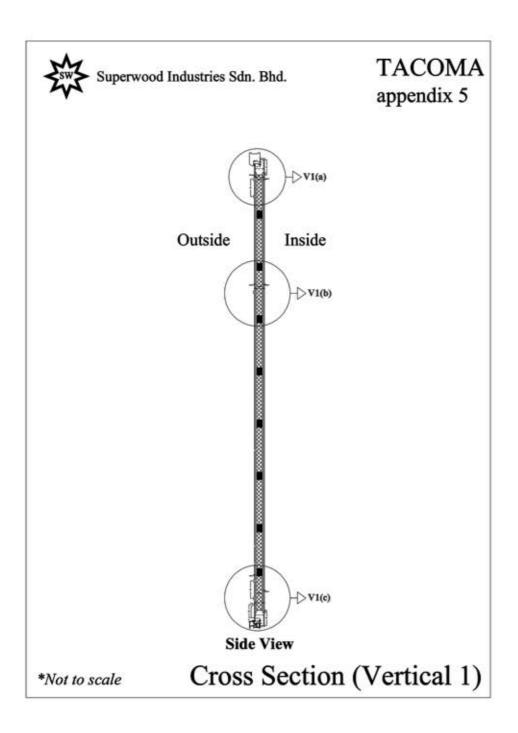


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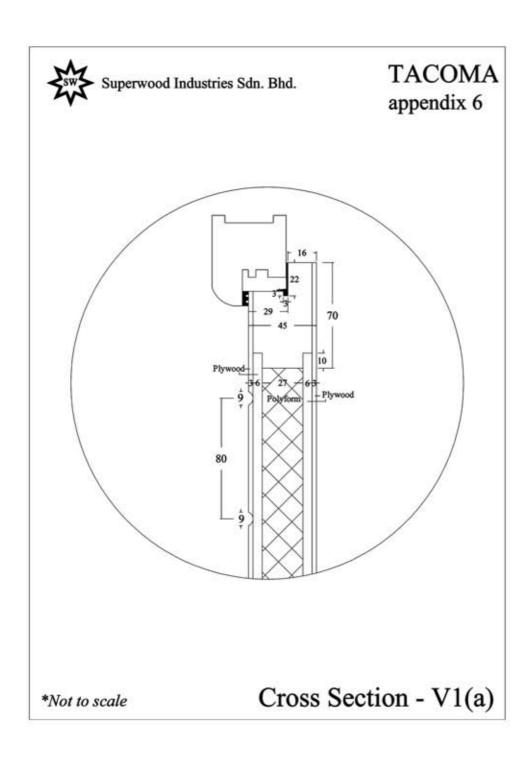




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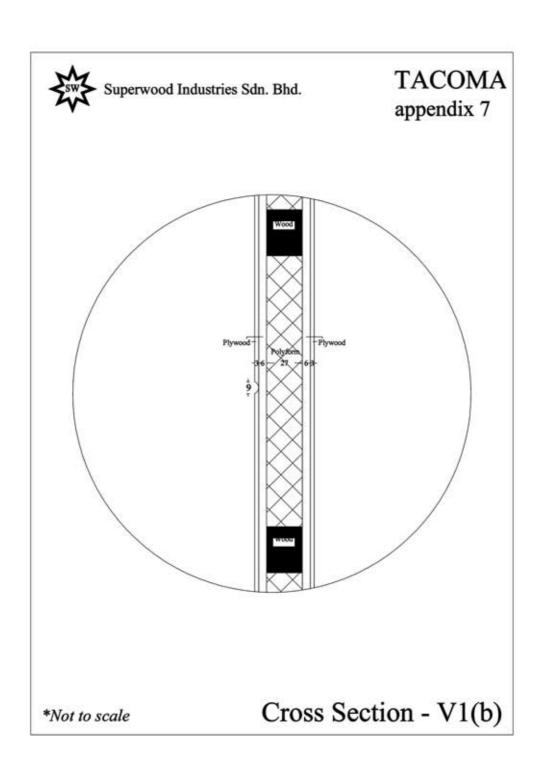




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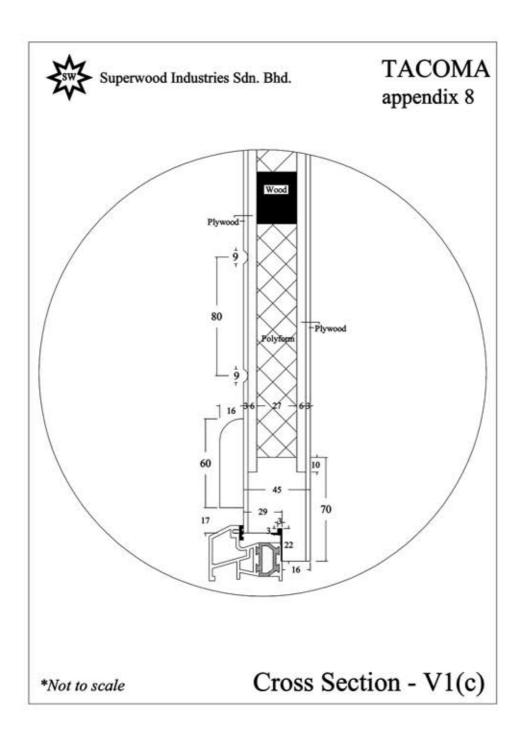




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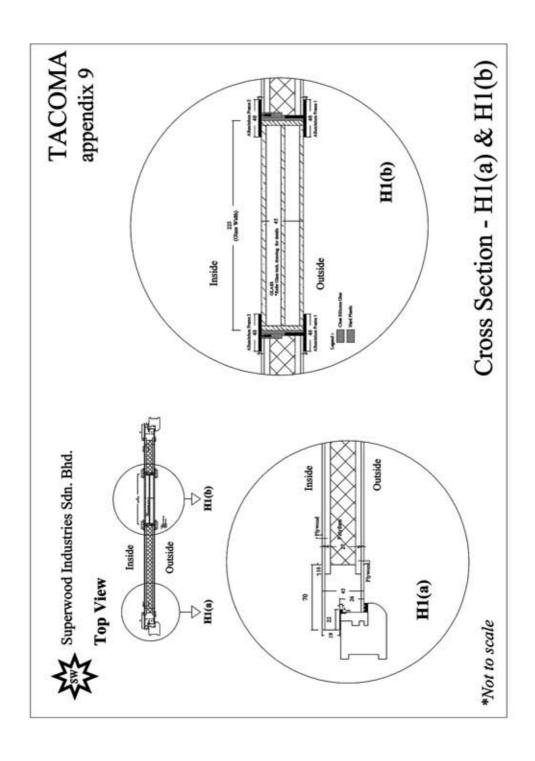




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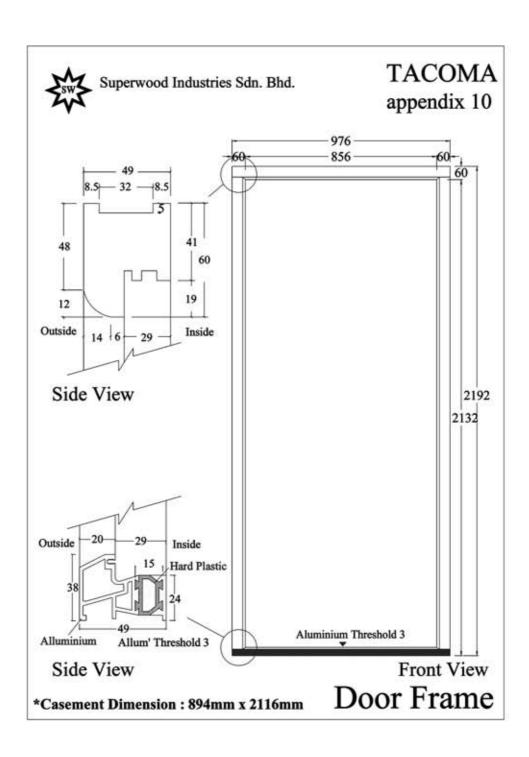




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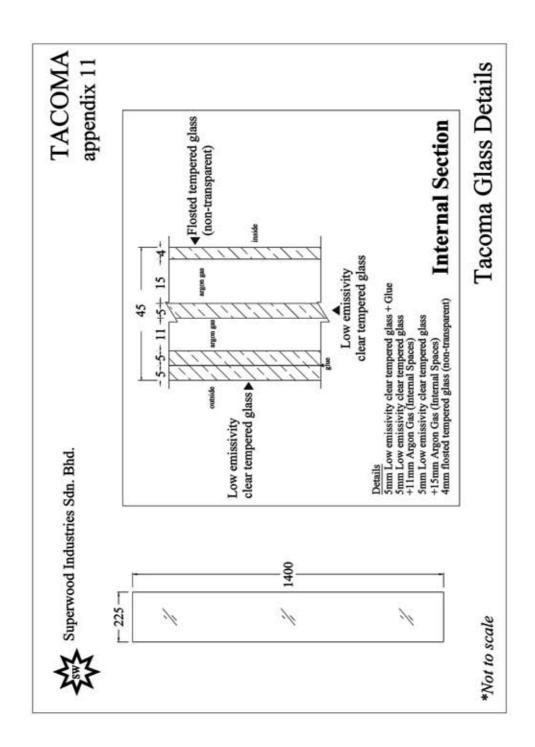




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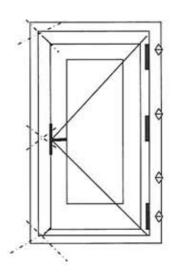




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♦ Turn hinge

Deflection measurement place



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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 wooden door, opening inwards, right, Tacoma type (model) (1 pc)

The sample (test specimen) was registered under the registration (ID) number: S0910134•001 (on 29th May 2014) 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 (5th June 2014)

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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Table 4 - Results of determination of air permeability and resistance to wind load

Test speci- men	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.m ²)	the length of joint m ³ /(h.m)	Final classification of air permeability (also with regard to pressure dependence of air permeability — see Annex 1)	the overall area m³/(h.m²)	the length of joint m ³ /(h.m)	the overall area m ³ /(h.m ²)	the length of joint m³/(h. m)		
A	0.71	0.25	4/4 4 It is necessary to declare class 3	5.13	1.79	3.6 (class 4) 10.8 (class 3	0.90 (class 4) 2.7 (class 3)	No damage	1/4580 1/2060 (C2)

The air permeability after tests P1 and P2 exceeded the upper limits of the claimed air permeability class (Class 4) as specified in EN 12207 by more than 20%.

The air permeability after tests P1 and P2 did not exceed the upper limits of the claimed air permeability class (Class 3) as specified in EN 12207 by more than 20%.

So final classification of air permeability according to EN 12207 is class 4, but the manufacturer has to declare class 3 with regard to results of air permeability after wind load.

Table 5 - Results of determination of watertightness

Test	Watertightness (method 1A)				
specimen	Limit of watertightness P _{max} (Pa) (classification)	Water penetration time			
Α	450 (8A)	Water spraying was finished after 50 min, without water penetration			



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

- Application No. 753500413 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
 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. AU09114003-1, elaborated by Intertek Testing Services Ltd., Shanghai JinQiao Branch, accredited test laboratory No. TL-394, Shanghai, China on 5th June 2014
- Manufacturer's REACH declaration from 29/5/2014
- 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 8. 6. 2014
- Specification of the test specimen representative

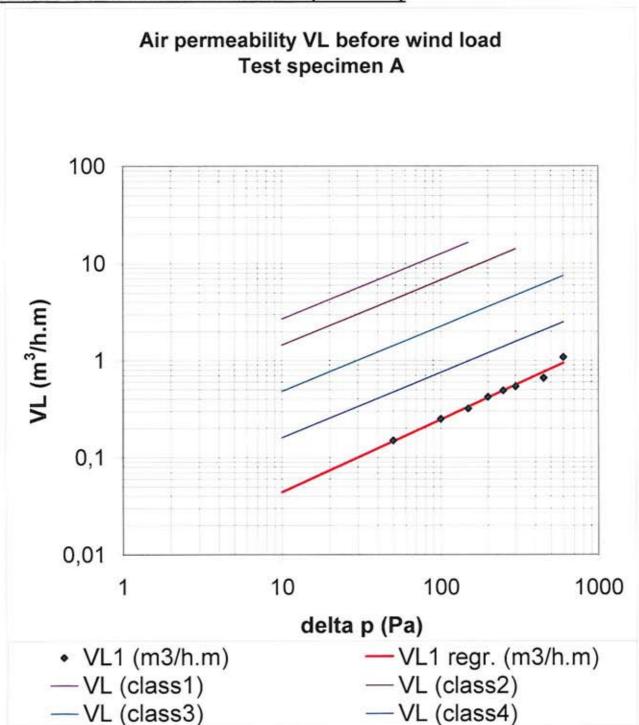


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Annex 1 Results and classification of air permeability

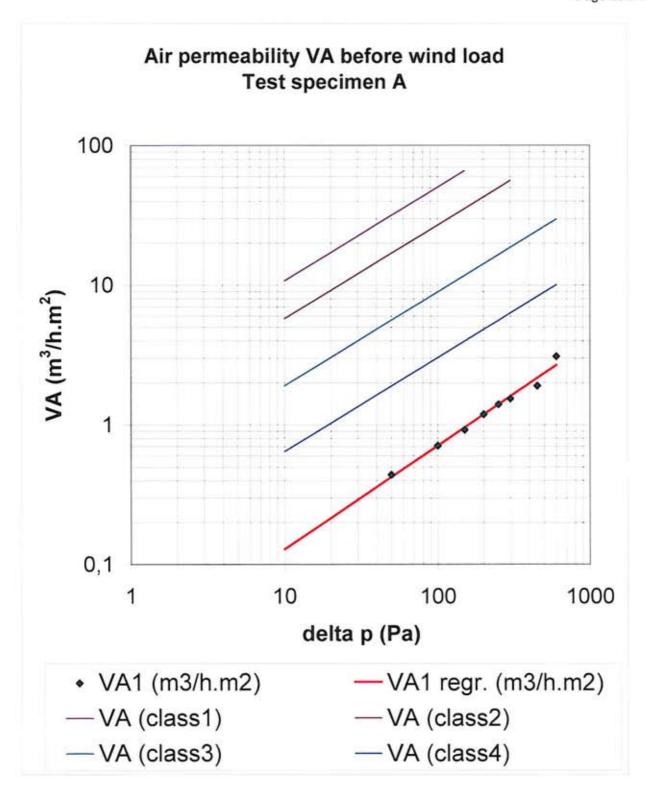




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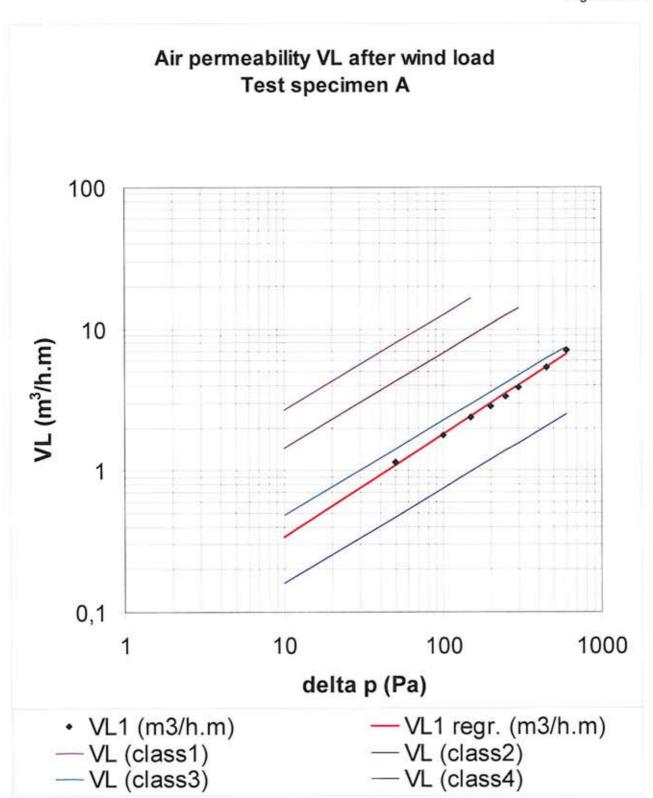




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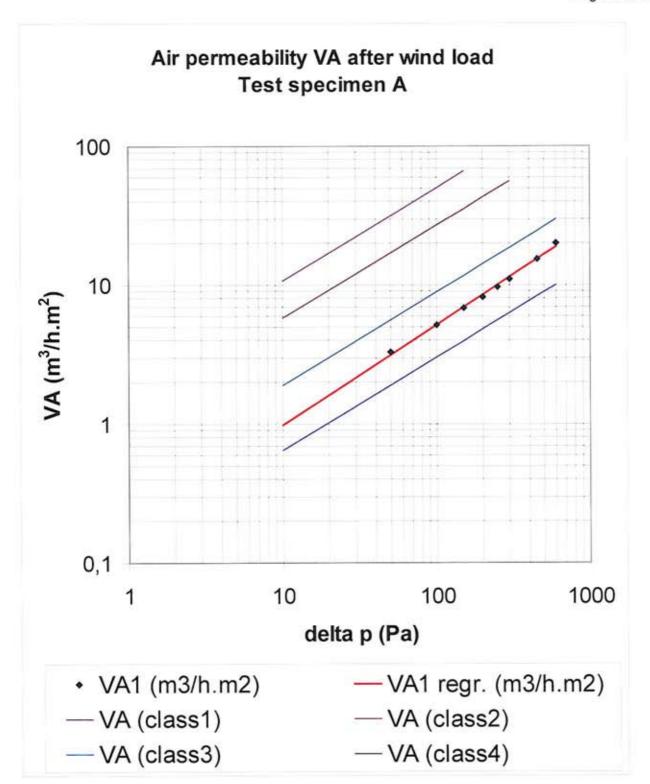




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Annex 2: Deflection measurement results

Table 4 - Test specimen A

Deflecti- on meter (gauge) No.	Frontal displacement (deflection) values (mm)							
	Positi- ve pressu -re +P1	pressure	Frontal deflectio n F _p	Relative frontal deflecti- on F _{rp} = F _p /L	Negative pressure -P1	Zero pressure P ₀	Frontal deflecti- on F _p	Relative frontal deflecti- on F _{rp} = F _p /L
2 - top	1.2	0.0		1/4580	1.5	0.0	1.00	1/2060
6 - middle	1.2	0.0	0.45		1.9	0.0		
3 - bottom	0.3	0.0			0.3	0.0		

L = 2060 mm