

**Report in Accordance with
PAS 24:2016**

**Enhanced security performance
requirements for doorsets and
windows in the UK**

CONFIDENTIAL

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Project: Single inward opening timber VPKD01E door With SALTO x24 ONE for PAS:24 Model

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1 Introduction

This document describes the testing conducted in accordance with PAS 24:2016 on the Inward opening timber doorset. The testing was commissioned by Tina Hascec on behalf of VPK Ltd.

The testing was carried out by Build Check Ltd test laboratory at Unit 3 Lincoln Park Business Centre, Lincoln Road, High Wycombe, HP12 3RD. The testing was conducted on *08 June 2020*. The testing was witnessed by Gus Dasanish of Salter.

This report is only valid for the conditions under which the test was conducted. All measurement devices, instruments and other relevant equipment were calibrated and traceable to National Standards.

2 Summary of Results

Overall test result	Pass
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The following summarises the results of testing carried out, in accordance with the relevant test methods of PAS 24: 2016.

The overall results achieved for enhanced security performance consisted of the following tests on the supplied samples (see section 5 for more details).



Sample	Test Date	Test	Test ref	Pass/fail
1	08/06/2020	Manipulation test A	B.4.3	Pass
2	08/06/2020	Manipulation test B	B.4.3	Pass
NA	-	Infill manual test	B.4.4.2	-
NA	-	Infill mechanical test	B.4.4.3	-
1	08/06/2020	Manual cutting test A	B.4.4.4	Pass
1	08/06/2020	Manual cutting test B	B.4.4.4	Pass
2	08/06/2020	Mechanical loading test	B.4.5	Pass
1	08/06/2020	Manual check test	B.4.6	Vulnerable/not vulnerable
NA	-	Additional mechanical loading test	B.4.7	-
2	08/06/2020	Soft body impact test	B.4.8	Pass
2	08/06/2020	Hard body impact test – door leaf	B.4.9.2.2	Pass
NA	-	Hard body impact test – infill medium	B.4.9.2.3	-
1	08/06/2020	Security hardware and cylinder test	Annex A	Pass

The doorset passed PAS 24:2016 requirement for D.

The doorset range covered by this report is only applicable to the size and configuration tested.

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3 Authorisation

	Issued by:	Checked by:
Signature:		
Name:	Dennis Humm	Richard Bate
Title:	Test Engineer	Technical Director

4 Test Details

Configuration: *single doorset*

Nominal Overall Dimensions:

Outer frame (w x h): 1005mm x 2105mm
 Door Leaf (w x h): 926mm x 2040mm

The specimen(s) were received on: 05/06/2020

The test sample(s) were selected and provided direct from the client.

The specimen was conditioned in the laboratory at a temperature between 15 to 30°C and a relative humidity between 25 to 75%. The conditioning time was a minimum of 12 hours.

Sample	Test Date	Temperature	Recorded Humidity	Correct Humidity
1,2&3	09/06/20	22°C	32%RH	42%RH

The doorset specimens were supplied mounted into a nominally 50mm x 100mm sub-frame in accordance with the manufacturer's installation requirements. They were secured into the test rig (TR1) by the responsible engineer.

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4.1 Description of Specimen

Frame Profiles	Ref. No.	Material Type, Manufacturer's Name, Density (timber only) & Surface Treatment	Dimensions (Height & Width)
Outer Frame	VPK02	Sapele, 640kg/m ³	54mm x 76.5mm
Door Leaf	1000	Vicaima N1000, FD30 HDC 640kg/m ³	926mm x 2040mm x 44mm
Joint Type	Miter Joint at 45 degrees		

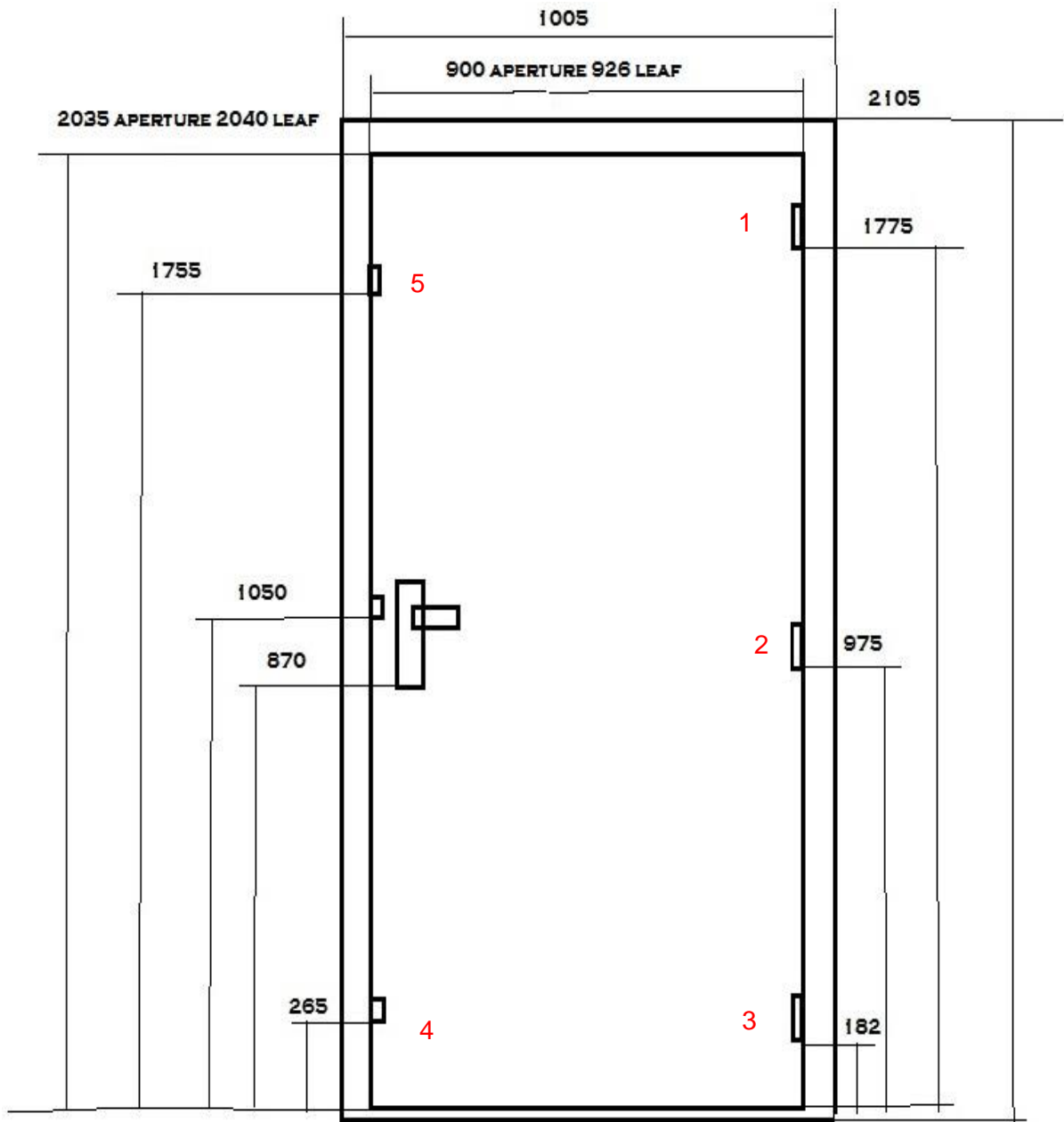
Weather Seals	Ref. No.	Material Type/ Manufacturer's Name	Continuous or Joined @ Corners
Frame Rebate	STS104	STS 104 FO Intumescent Seal/Sealed Tight Solutions	Jointed
	STS ST1009	STS ST1009 Accoustic/Smoke Seal	

Hardware	Ref. No.	Manufacturer's and Product Name	Fixings (quantity and type with dimensions)
Lock & Keeps	AV2	Winkhaus AV2 Lock and keeps	30No. Stainless steel Screws 7mm x 30mm
Handles	EB750U00I MW38P	Salto Escutcheons handle set X24 one for PAS:24 Model	TROX 3No. M5 x 50mm TROX 6No. M4 x 12mm Grub 2No. M6 x 5mm 1N o 15mm opan head self-tapping screw.
Hinges/ Friction Stays	ST HIM-G13R	ST HIN-G13R HINGE 4x3 13 RAD / Intelligent Hardware	24No. Stainless steel Screws 8mm x 30mm
Door Viewer	ST4008	4No. X ST4008 FIRE RATED EYE-VIEWER FD30/FD60 CHROME	No fixings
Concealed Door Closer	AST90035P R	ASTRA 4000 Series, radius	12No. Stainless Steel Screws 5mm x 50mm
Drop Down Seal	ST422GT	STS –ST422GT 930MM DROP DOWN SEAL	2No. Screws 3.5mm x 20mm
Overhead closer	TS5255	Boss Door Controls	6No. Screws 7mm x 30mm

The above specimen specification was supplied by the client and not checked by the testing laboratory.

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Figure 1 – Doorset elevation including hardware positions (external face) with mechanical loading points shown



Points 1 to 5 refer to perpendicular/parallel loading points (see Section 5.)

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5 Performance Requirements and Results

PAS 24 Clause	Result	Pass/Fail
B.4.3 Manipulation test A	Used craft knife and electronic screwdriver on the bottom lock for 3 minutes. Used craft knife and electronic screwdriver on the bottom hinge for 3 minutes. No other areas were deemed attackable. No entry was gained.	Pass
B.4.3 Manipulation test B	Used paint scraper and electronic screwdriver on the bottom lock for 3 minutes. No entry was gained.	Pass
B.4.4.2 Infill manual test	Not tested	N/A
B.4.4.3 Infill mechanical test	Not tested	N/A
B.4.4.4 Manual cutting test A	Used craft knife to attempt to cur access through the door for 3 minutes. No entry was gained.	Pass
B.4.4.4 Manual cutting test B	Used the 6mm chisel to attempt to drill a hole through the door. No entry was gained.	Pass
B.4.5 Mechanical loading test	Mechanical loads were applied to hinge points and locking points with results as follows (see figure 1 for positions): 1. 1.5kN towards opposite edge and 4.5kN perpendicular. 2. 1.5kN towards opposite edge and 4.5kN perpendicular. 3. 1.5kN towards opposite edge and 4.5kN perpendicular. 4a. 1.5kN up and 4.5kN perpendicular. 4b. 1.5kN towards opposite edge and 4.5kN perpendicular. 5a. 1.5kN up and 4.5kN perpendicular. 5b. 1.5kN towards opposite edge and 4.5kN perpendicular. All loads were held and no entry was achieved.	Pass
B.4.6 Manual check test	Used nail bar and screwdriver below the bottom hinge for 3 minutes. Used nail bar and screwdriver above the bottom hinge for 3 minutes. Used nail bar and screwdriver below the bottom lock for 3 minutes. Used nail bar and screwdriver above the bottom lock for 3 minutes. Used 2 nail bars below the bottom hinge for 3 minutes. No entry was gained.	Pass
B.4.7 Additional mechanical loading test	Not required.	
B.4.8 Soft body impact test	1. 800mm from floor level – impacted 3 times. 2. 1250mm from floor level – impacted 3 times. 3. 1700mm from floor level – impacted 3 times. No entry gained	Pass
B.4.9.2.2 Hard body impact test (leaf)	1. Top hinge corner – impacted 3 times. 2. Top hinge – impacted 3 times. 3. Mid hinge – impacted 3 times. 4. Bottom hinge – impacted 3 times. 5. Bottom lock corner – impacted 3 times. 6. Bottom lock – impacted 3 times.	Pass

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Figure 2 – Photograph of Specimen



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