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UK - Hayloaders Yard, Wotton Road, Brill, Bucks, HP18 9UB

Test Summary Report

*Incorporating **PAS 24:2022***

Enhanced Security Performance Requirements

For Doorsets in the UK

CONFIDENTIAL

REPORT REFERENCE:	W24029-1
ISSUE DATE:	DD/MM/YYYY
PROJECT:	STEEL SINGLE LEAF DOORSET
PREPARED FOR:	TIW Fulfilment Limited Sedna House Marshfield Road Castleton Cardiff Wales CF3 2UW
TEST ENGINEER:	Kyle Morris
WITNESSES:	None

UKAS TESTING
4044

Contents

1. Introduction

The classification tests were commissioned by Nathan Edwards on behalf of TIW Fulfilment Limited. The tests were performed in accordance with the following Standards:

PAS 24:2022

The testing was carried out by Build Check Ltd test laboratory at:

Unit 3A Hayloaders Yard, Wotton Road, Brill, Buckinghamshire, HP18 9UB.

The testing was conducted on 08/11/2024.

This report is only valid for the conditions under which the test was conducted. All critical items of equipment are calibrated and traceable to National Standards.

Build Check shall not be liable for any errors or for any incidental or consequential damages in connection with the furnishing, performance, or use of this test summary.

2. Summary of Results

Overall Test Result	Pass

The following summarises the results of testing carried out, in accordance with the relevant test methods of PAS 24:2022.

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	Outcome
1	08/11/2024	Manipulation test A	B.4.3	PASS
2	08/11/2024	Manipulation test B	B.4.3	PASS
-	-	Infill manual test	B.4.4.2	N/A
-	-	Infill mechanical test	B.4.4.3	N/A
1	08/11/2024	Manual cutting test A	B.4.4.4	PASS
1	08/11/2024	Manual cutting test B	B.4.4.4	PASS
2	08/11/2024	Mechanical loading test	B.4.5	PASS
1	08/11/2024	Manual check test	B.4.6	Not Vulnerable
-	-	Additional mechanical loading test	B.4.7	N/A
2	08/11/2024	Soft body impact test	B.4.8	PASS
2	08/11/2024	Hard body impact test – door leaf	B.4.9.2.2	PASS
-	-	Hard body impact test – infill medium	B.4.9.2.3	N/A
1	08/11/2024	Security hardware and cylinder test	Annex A	PASS

The doorset passed PAS 24:2016/2022 requirement for D.

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

3. Authorisation

	Report Produced By:	Authorising Signatory:
Signature:		
Name:		
Title:		
Date:		

The legal validity of this report can only be claimed on presentation of the complete report.

4. Test Details

Configuration: SINGLE DOORSET

Nominal Overall Dimensions:
Outer Frame (w x h): 1044mm x 2035mm
Door Leaf (w x h): 994mm x 1980mm

The specimen(s) was received on: 07/11/2024

The specimen(s) was/were selected and provided direct from the client and was conditioned in the laboratory for a minimum of twelve hours at a temperature between 15°C to 30°C and a relative humidity between 25 %RH to 75 %RH.

Sample	Test Date	Temperature	Recorded Humidity
1	08/11/2024	21.1°C	58.8% RH

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

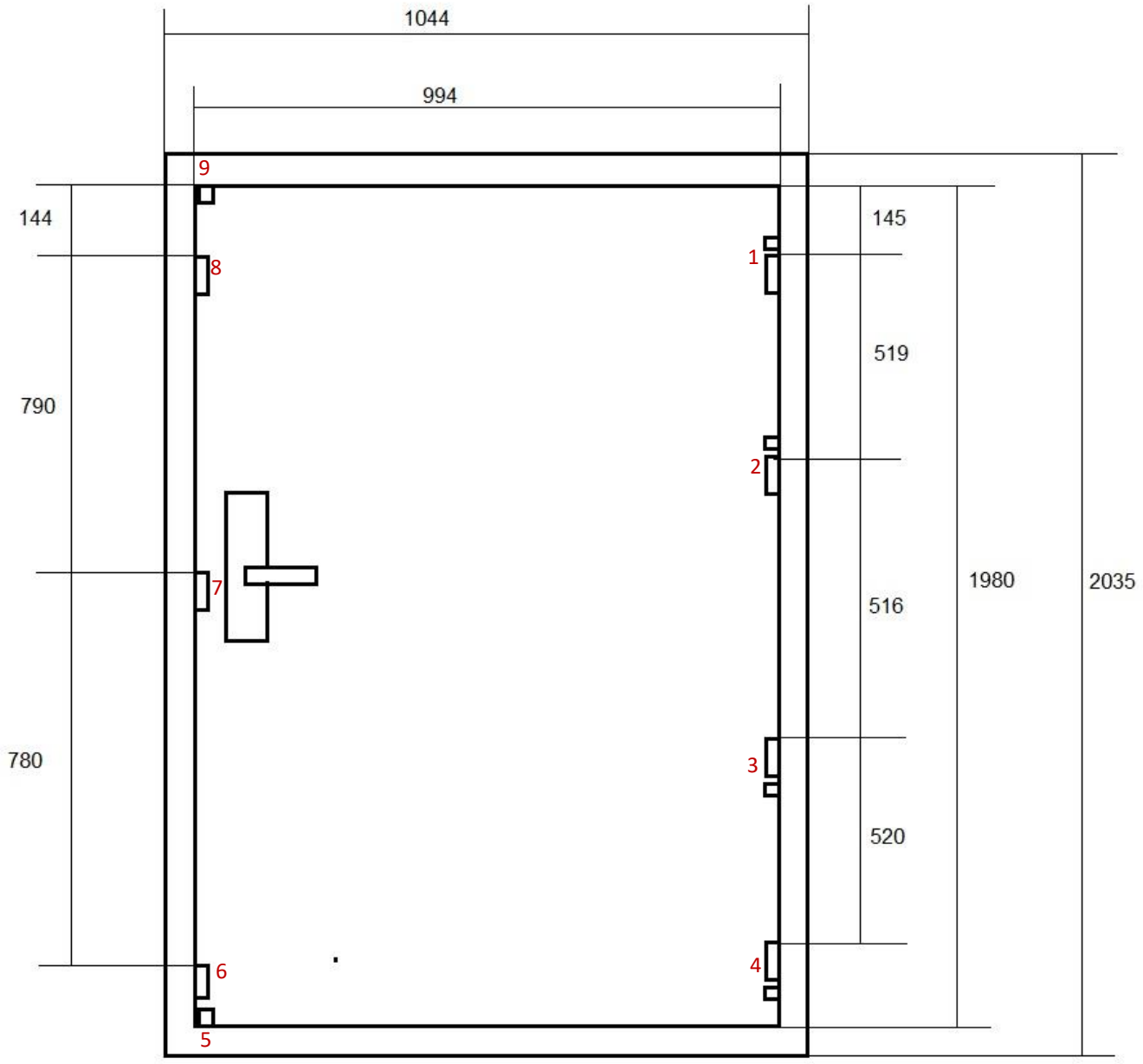
4.1 Description of Specimen

Frame Profiles	Ref. No.	Material Type, Manufacturer's Name, Density (timber only) & Surface Treatment	Dimensions (Height & Width)
Outer Frame	??	Steel, Powder Coated	100mm x 45mm
Door Leaf	??	??	mm x mm
Joint Type	??		

Hardware	Ref. No.	Manufacturers and Product Name	Fixings (Quantity, Type, and size)
Lock	??	3 point locking system with shoot bolts	??No. ??mm x ??mm ?? screws
Lock Keeps	N/A	Cut out of frame	235mm
Handles	#918902	Hooply	??No. ??mm x ??mm ?? screws
Hinges	P100	Lift off hinges	??No. ??mm x ??mm ?? screws into frame ??No. ??mm x ??mm ?? screws into leaf
Cylinder	TS007	Greenteq TS007 3 Star Cylinder	1No. M? x ??mm Machine screw
Hinge Protection	??	4No. hinge protectors	??No. ??mm x ??mm ?? screws into frame ??No. ??mm x ??mm ?? screws into leaf

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

Figure 1- Doorset including hardware positions (external face) with mechanical loading points shown.



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

5. Performance Requirements and Results

PAS 24 Clause	Result	Outcome
B.4.3 Manipulation test A	Used the electrical screwdriver to attack the locking hardware for 3 minutes. Used the electrical screwdriver to attack the hinge hardware for 3 minutes. *No entry was gained.*	Pass
B.4.3 Manipulation test B	Used the screwdriver to attack the locking hardware for 3 minutes. *No entry was gained.*	Pass
B.4.4.2 Infill manual test	N/A, no glazing on product.	Pass
B.4.4.3 Infill mechanical test **Please ensure all loads are accurately transposed from the technical record into this document**	N/A, no glazing on product.	-
B.4.4.4 Manual cutting test A	*Used the craft knife to attempt to cut a hole in the door leaf for 3 minutes.* *No entry was gained.*	Pass
B.4.4.4 Manual cutting test B	Used the craft knife to attempt to cut a torso hole in the door leaf for 3 minutes. *No entry was gained.*	Pass
B.4.5 Mechanical loading test **Please ensure all loads are accurately transposed from the technical record into this document**	Mechanical loads were applied to hinge points and locking points with results as follows (see figure 1 for positions): 1a. Applied 1.502kN up and kN perpendicular. 1b. Aplied kN towards the opposite side and 4.507kN perpendicular. 2a. Applied 1.511kN up and 4.514kN perpendicular. 2b. Applied 1.522kN towards the opposite side and 4.519kN perpendicular. 3a. Applied 1.508kN up and 4.561kN perpendicular. 3b. Applied 1.515kN towards the opposite side and 4.543kN perpendicular. 4a. Applied 1.527kN up and 4.526kN perpendicular. 4b. Applied 1.511kN towards the opposite side and 4.525kN perpendicular. 5. Applied 1.522kN up and 4.514kN perpendicular. 6. Applied 1.506kN towards the opposite side and 4.551kN perpendicular. 7. Applied 1.519kN towards the opposite side and 4.533kN perpendicular. 8. Applied 1.520kN towards the opposite side and 4.510kN perpendicular. 9. Applied 1.501kN towards the opposite side and 4.507kN perpendicular. *All loads were held for 10 seconds, and no entry was achieved.*	Pass
B.4.6 Manual check test	Used the nail bar and screwdriver to attack above the bottom lock point for 3 minutes. Used the nail bar and screwdriver to attack below the centre locking point for 3 minutes.	Not Vulnerable

	Used the nail bar and screwdriver to attack next to the bottom shoot bolt for 3 minutes. Used the nail bar and screwdriver to attack above the centre lock for 3 minutes. Used the nail bar and screwdriver to attack below the top lock for 3 minutes. *No entry was gained.*	
B.4.7 Additional mechanical loading test **Please ensure all loads are accurately transposed from the technical record into this document**	Not required.	
B.4.8 Soft body impact test	1. 800mm from floor level – impacted three times 2. 1250mm from floor level – impacted three times 3. 1700mm from floor level – impacted three times *No entry gained*	Pass
B.4.9.2.2 Hard body impact test (leaf)	1. Top hinge corner – impacted three times 2. Top mid hinge – impacted three times 3. Bottom mid hinge – impacted three times 4. Bottom hinge – impacted three times 5. Bottom hinge corner – impacted three times 6. Bottom lock corner – impacted three times 7. Bottom lock – impacted three times 8. Cylinder – impacted three times 9. Top lock corner – impacted three times *No entry gained*	Pass
B.4.9.2.3 Hard body impact test (infill)	Not applicable, as no entry was gained during manual check test. Or results of tests as B.4.5 above.	
Annex A Security hardware and cylinder test	**Part 1**: Used the 25mm chisel to remove the handle plate for 2 minutes and 5 seconds. Used the curved mole grips to snap the cylinder until 3 minutes. No entry gained. **Part 2**: Used the 3.9mm x 50mm self tapping screw and screwdriver to screw into the cylinder for 1 minute and 7 seconds. Used the torque bar with the hook head to snap the cylinder until 1 minute 48 seconds where the screw dripped out. Used the flat screwdriver to re screw in to the cylinder until 3 minutes. No entry gained. **Part 3:** Used the 25mm chisel to attempt to peel back the profile until 3 minutes. No entry gained.	Pass

Figure 2 – Photograph of Specimen

The legal validity of this report can only be claimed on presentation of the complete report.

Appendix 1

A1 – Further Notes & Paragraphs

A2 – Equipment Used

Equipment Type	Asset No.
Load cell A	LAB-23-007
Load cell B	LAB-23-009
Load cell C	LAB-23-010
Stopwatch	LAB-13-002
Tape Measure	LAB-08-004
Craft Knife	LAB-02-008
Electrical Screwdriver	LAB-02-008
25mm Wood Chisel	LAB-03-001
Flat Bladed Screwdriver	LAB-03-004
Pozi point Screwdriver	LAB-03-005
Curved Mole Grips	LAB-26-002
Torque Gauge	LAB-19-003
Hooked Head	LAB-26-004
Steel Traction Screws	-
Nail Bar Red 1	LAB-27-005
Nail Bar 2	LAB-27-006
Large Screwdriver 1	LAB-27-001
Large Screwdriver 2	LAB27-002
1000mm^2 Prop Head	LAB-01-006
Glazing Load Pad	LAB-01-008
Hard Body Impactor	LAB-24-003
Soft Body Impactor	LAB-24-002

Please update the above equipment list to ensure it clearly reflects the equipment used and recorded as part of the technical record when the testing was undertaken.

A3 – Document Revisions