

Why are we the global leader in door opening solutions?

Find out at assaabloy.co.uk/reasons

ASSA ABLOY

The global leader in door opening solutions

INDICATIVE TEST REPORT

Testing of:

PVCu French doors

To the requirements of:

PAS 24:2016

Prepared for:

Technical Department

Yale DWS

School Street

Willenhall

West Midlands

WV13 3PY

Date: 14/11/2017



Contents

1	Introduction	3
2	Test Details	4, 5
3	Test Results	6

INDICATIVE TEST REPORT



1 Introduction

This report details the results of mechanical load testing conducted on PVCu French Door set in accordance with PAS 24:2016. The Door was manufactured and supplied by CJR Glass & Glazing

The test program was performed at the request of *CJR Glass & Training* technical department.

Only testing to Clause B.4.5 Mechanical Loading and Annex A was specified.

Testing was carried out on the 14th of November 2017 and performed on Yale's In- house load test rig using UKAS calibrated load cell & scales.



2 Test Details

Client Details

Company Name	CJR Glass and Glazing
Address:	Unit 3 Ashley Crescent Southampton SO19 9NA

Contact

Name	Clive Ret
Telephone	023 8044 4844
Email	clive@cjrdoubleglazing.com
Mobile	07970 248277
Fax	

Door Sample Deatails

Product Type (pvc, timber, Ali)	Upvc
Manufacturer	CJR Glass and Glazing
Door Dimensions	As above
Profile Manufacturer	Veka
Profile Codes	Frame 101161, Sash 105168
Slab Manufacturer	n/a
Infill Type	n/a
Reinforcement	Steel
Reinforcement Codes	Frame 113378, Sash 113374 and 113375
Fabrication Method	Welded
Fabrication frame	
Threshold	Standard



Test Details (Cont.)**Hardware to Sash**

Lock System	Lockmaster
Lock Fixings	4.3 x 25mm
Hinges	SFS
Hinge Fixings	As supplied
Hinge Protectors	Trojan
Protector Fixings	4.3 x 25mm
Handle	Window Ware Kore
Cylinder	Yale 3*
Additional Hardware	
Additional Fixings	

Hardware to Frame:

Keep Set	Lockmaster 1 piece
Keep Fixings	3.9 x 45mm and 4.3 x 25mm
Shootbolt Keep	Yale
Shootbolt Keep Fixings	3.9 x 32mm
Hinge Fixings	As supplied
Protector Keeps	Trojan
Protector Keep fixings	4.3 x 25mm
Additional Hardware	
Additional Fixings	



3 Test Results

Test Figures: Perpendicular to Plane Load 4.5kN

Arrows indicate direction of 1.5kN Parallel to plane load.

Loading Point		1 st Load Direction	2 nd Load Direction	Results	Comments
Top Hinge	1	→	N/A	Pass	
Middle hinge	2	→	N/A	Pass	
Bottom Hinge	3	→	N/A	Pass	
Bottom S/bolt Slave	4	↑	N/A	Pass	
Bottom S/bolt Master	5	↑	N/A	Pass	
Bottom Roller	6&7	↑	↔	Pass	
Bottom Hook	8&9	↓	↔	Pass	
Roller	10&11	↑	↔	Pass	
Centre Hook	12&13	↑	↔	Pass	
Roller	14&15	↑	↔	Pass	
Top Hook	16&17	↓	↔	Pass	
Top Roller	18&19	↑	↔	Pass	
Top S/bolt Master	20	↓	N/A	Pass	
Top S/bolt Slave	21	↓	N/A	Pass	
Top Hinge	22	←	N/A	Pass	
Middle Hinge	33	←	N/A	Pass	
Bottom Hinge	24	←	N/A	Pass	

B.4.5 MECHANICAL LOADING TEST: *RESULT = Pass*



Test

A.3- Security Hardware & Cylinder test

A3.2-Part 1

Curved jaw grips were used to remove the handle back plate.

The craft knife was then used to increase the aperture around the cylinder.

Curved jaw grips used to attack the cylinder guard.

Following 3 minutes the cylinder remained secure

Result: **Pass**

A.3.3- Part 2

3.9mm self-cutting screw was inserted into the keyway.

The screw was then levered with the torque wrench until the screw head fractured.

The curved jaw grips were used to remove the remainder of the screw allowing a second 3.9mm screw to be inserted into the keyway.

The second screw was then levered with the torque wrench for the remainder of the test.

Total test time 3 minutes, the cylinder remained secure

Result: **Pass**



Test Sample supplied



THE TESTING AND RESULTS IN THIS REPORT ARE OFFERED IN GOOD FAITH. THE TESTING WAS CONDUCTED TO THE RELEVANT PARTS OF THE STANDARD AS INDICATED. THE RESULTS SHOWN ARE FOR REFERENCE ONLY.

YALE DWS IS NOT A UKAS ACCREDITED TEST HOUSE.

Issued on behalf of YALE DWS:

Daniel Miles

daniel.miles@yaledws.co.uk

End of Report

Page 8 of 8



Door and Window Solutions