ASSA ABLOY

Test of:

Assa Abloy Hospitality single door set fitted with Vingard locking system (Lock side testing only)

Enhanced security performance requirements for doorsets and windows in the UK

Customer:

Assa Abloy Hospitality

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AUTHORISATION

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Report issued by: Richard Darrell (Senior Test Engineer)

Signed:

Date: 15th August 2016

For and on behalf of ASSA ABLOY UK Test Laboratory

Report authorised by: Ian Bridge (Test Laboratory Manager)

Signed:

Date: 15th August 2016

For and on behalf of ASSA ABLOY UK Test Laboratory

Date report issued: 15th August 2016

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Origin of Request

Client Details

Company Name	Assa Abloy Hospitality
Address	School Street Willenhall West Midlands
Post Code	WV13 3PW
Contact	R Eastburn

Order Details

Order Number	N/A
Dated	N/A

Test Details

Sample Details

Product	ASSA ABLOY Timber Performance Doorsets
Model Number	Solid A3 FD30S 45mm single leaf
Marking / Brand	Assa Abloy Hospitality
Manufacturer	Assa Abloy Hospitality
Date of Manufacture	Not known
Other information	None

Test Specification / Details	PAS 24 : 2012 – Enhanced security performance requirements for door sets and windows in the UK
Date samples received	28th July 2016
Date test commenced	8th August 2016
Date test completed	8th August 2016
Job Number	2016-208
Any special test requirements	None

Sample Details

Sample Details:	ASSA ABLOY Hospitality Single Open In Door Set
Fabricator:	ASSA ABLOY Hospitality & ASSA ABLOY UK
Material:	Timber Outer frame : Engineered redwood with solid rebated stop Primary Leaf : A3 solid flax core with softwood stiles & rails
Finish:	Oak
Lock:	Lock : VingCard ANSI DB electro-mechanical mechanism within lockcase, 70mm backset escape function Keeps : As supplied with lockcase
Hinges:	UNION PowerLOAD JH603BUFS-U-BZP Closer fitted
Cylinder:	Vingcard Round Screw in cylinder with thumbturn on inside
Handle:	Straight lever on round rose, bolt through fixings.
Fixings:	Lock : Supplied with lock Keep : 6 x 100mm wood screw (not as supplied with keep) Hinge to frame: No.10 Stainless Steel Hinge to leaf : No.10 Stainless Steel Handle : Supplied with handle Glazing/Panel fixings : N/A Supplier : Spyhole supplied
Letterplate:	N/A
Weather sealing:	Drop down acoustic, rebated to underside of door
Glass :	N/A
Glazing system:	N/A
Sample dimensions:	Frame : 2089 x 986mm Door : 2052 x 925mm

Note: The sample details are as supplied by the customer

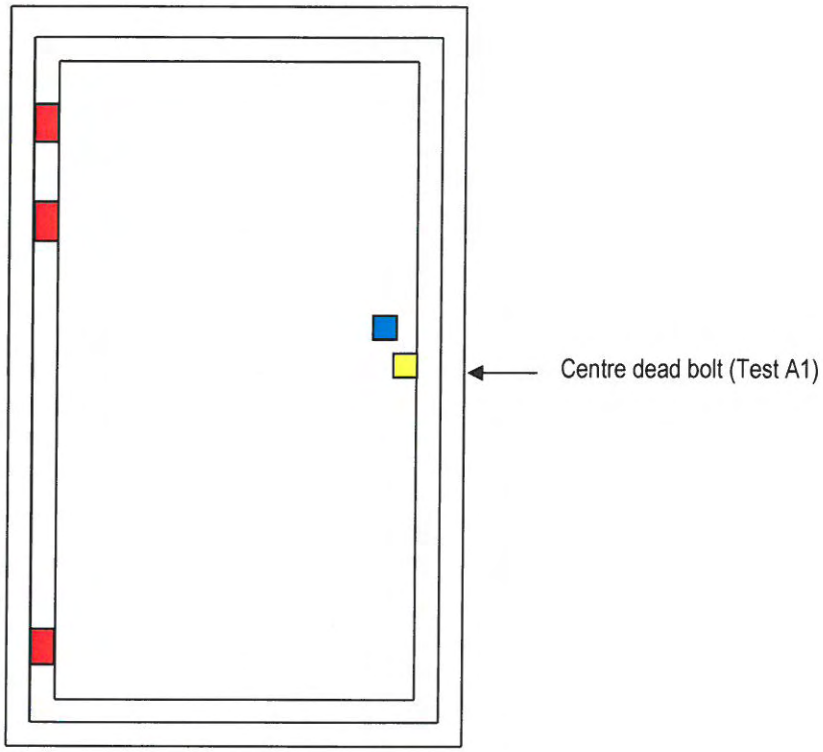
Test Conclusions

Clause No.	Description	Compliance / Comment
A.3	Security hardware and cylinder test	Yes
B.4.3	Manipulation test	Yes
B.4.4.2	Infill medium removal test – Manual	N/A
B.4.4.3	Infill medium removal test – Mechanical	N/A
B.4.4.4	Infill medium removal test – Manual Cutting	Yes
B.4.5	Mechanical loading test	Yes (Lock side)
B.4.6	Manual check test	Not Tested
B.4.7	Additional mechanical loading test	N/A
B.4.8	Soft body impact test	Yes
B.4.9	Hard body test	Yes (Lock side)
7.2	Letter plate test	N/A

Classification (according to 4.4)	Code
Without letter plate	N/A

Test Results

Door Layout



Hinges

Lock Point

Handle

Laboratory Temperature: 21°C

All hardware was checked for correct operation prior to the commencement of the test

B.4.3 – Manipulation Test

Test	Sample / Actual	Pass/Fail
B.4.3 - Manipulation Test	The craft knife was used to cut around the escutcheon allowing the paint scrapper to gain a purchase and lever, this was unsuccessful – 3 minutes The craft knife was used to cut away the frame and leaf near the centre lock then using the paint scrapper in an attempt to manipulate the bolt – 3 minutes The paint scrapper was used to remove the card reader cover then using the flat bladed screwdriver in an attempt to manipulate the unit.– 3 minutes Following 9 minutes total no access was gained.	Pass

B.4.4 – Cutting & Infill Medium Removal Test (carried out on sample 1)

Test	Sample / Actual	Pass/Fail
B.4.4.4 – Infill Medium Removal Test – Manual Cutting test	An attempt was made to create a hole in the leaf with the 25mm wood chisel and 6mm wood chisel in drilling and gouging actions. Following 3 minutes a 10mm x 20mm hole was created through the leaf but the sample could not be opened.	Pass

B.4.5 – Mechanical Load Test (carried out on sample 2)

Test Ref.	Load Position	Requirement	Actual	Pass/Fail
A1 –Centre deadbolt	Parallel to plane at right angles to the edge	1.5kN (153Kg)	153Kg	----
	Perpendicular to plane	4.5kN	4508kN	Pass

Test	Sample / Actual	Pass/Fail
B.4.8 – Soft Body Impact Test	Impact points were marked on the centreline of the door at 0.8m, 1.25m and 1.7m. Each impact point was struck 3 times with the impactor. In each instance the door remained closed	Pass

Test	Sample / Actual	Pass/Fail
B.4.9 – Hard Body Impact Test	Impact points were marked on the door as follows; - at each corner lock side of the leaf - on the door at the locking point The door bolt was thrown and sample locked Each impact point was struck 3 times with the impactor. In each instance the door remained closed	Pass

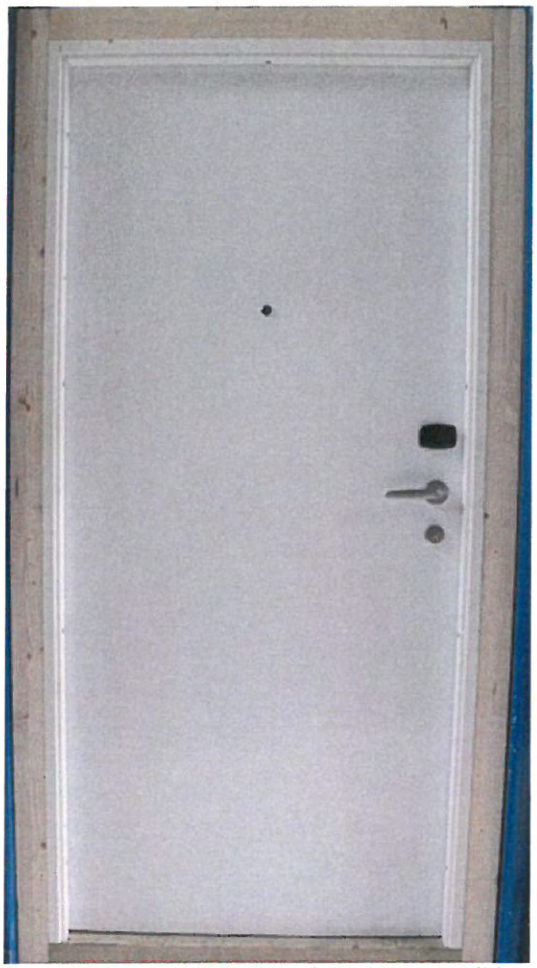
Test	Sample / Actual	Pass/Fail
A.3 – Security Hardware & Cylinder Test A.3.2 – Part 1	The torque wrench was used to apply loads to the handle then using the curved jaw grips in a side to side motion the handle was removed. The craft knife was then used to cut around the rose to allow the torque wrench to apply loads and remove - 3 minutes Sample remained secure.	Pass

Test	Sample / Actual	Pass/Fail
A.3 – Security Hardware & Cylinder Test A.3.3 – Part 2	A 3.9mm screw was inserted. The screw was then levered with the torque wrench for the remainder of the test. 3 minutes Sample remianed secure.	Pass

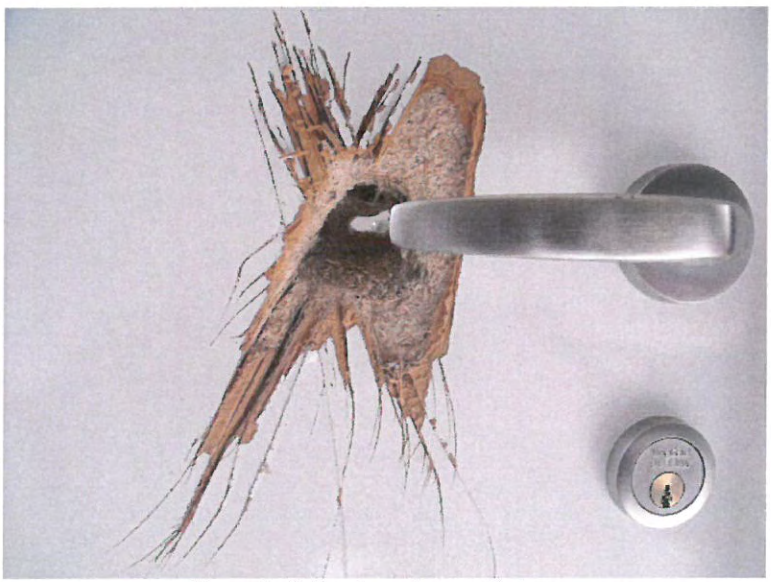
Test Equipment Used

Equipment No.	Description
LEN 195	loading frame
LEN 127	Thermometer
LEN 087	PAS 24 marking out block
LEN 090	Tool sets A & B
LEN 091	Tool set (clause A.7)
LEN 163	Spring balance
LEN 109	Torque wrench
LEN 177	Curved jaw grips
LEN 118	Wood block

Pictures



Sample received in a good working condition



Sample following clause B.4.4



Sample following to Annex A