


Test Report 9788588.
Smart Systems Limited
Incorporating Smart Extrusions

Introduction.

This report has been prepared by Jack Nicholls and relates to the activity detailed below:

Job/Registration Details	Client Details
Job number: 9788588 Job type: Testing Samples Submitted Start Date: 21/10/2019 Test type: Direct Sample ID: 10184009 Registration: NA Protocol: NA Quality system: NA Registration: NA Protocol: NA Quality system: NA	Smart Systems Limited Incorporating Smart Extrusions Arnolds Way Yatton BS49 4QN United Kingdom

The report has been approved for issue by Mohamed Abukar – Subject Matter Expert

Approved For Issue	
	Issue Date: 17 August 2020

Objectives.

Direct test

Product Scope.

Traditional designer single door

Report Summary.

The sample was received on 23 July 2020 and the testing was started on 27 July 2020.

The sample submitted complied with the requirements of the test work conducted.

PAS24:2016 Direct Test.

1 off single leaf open in cassette glazed hinged door assembly with a low threshold

(Sample ID No 10184009)

Date sample received: 23 July 2020

Test Results.

1. Security Hardware and Cylinder Test The test sample met the requirements of the Specification in respect of Annex A

B.2 Sample Selection.

The sample submitted for tests were selected using the criteria in B.2 of the Specification. The sample was submitted for test mounted in a 75mm x 100mm timber subframe in accordance with the manufacturer's installation requirements. The test sample was manufactured by the client.

B.3 Requirements for Test Apparatus.

The test apparatus for the manual and mechanical tests is shown in figures B.2 to B.5.

B.4 Test Methods.

The method of testing the sample followed the sequence detailed in B.4 of the Specification.

Description of Sample.

Sample Type -	Single leaf open in cassette glazed hinged door assembly with a low threshold		
Material -	Aluminium		
Construction -	Cleated		
Fittings -	A ten-point locking (ten dead bolts) MCN espagnolette system, key lockable 3* cylinder, two dog bolts and three lift off hinges		
Classification -	D		
Glass -	Double glazed 4-16-6.8mm toughened glass sealed units		
Panel -	Not applicable		
Glass Retention System -	Cassette		
Sample dimensions -	Overall length:	1000mm	Height: 2200mm
	Active leaf length:	925mm	Height: 2150mm
Date of test -	27 July 2020		
Laboratory temperature -	19.8°C		

Smarts Designer door With MCM Lock and Cylinders, Low Threshold.

Outer Frame width	1200mm	Outer Frame Material	Aluminium
Outer Frame height	2400mm	Outer Frame Gasket	
Outer Frame Part Numbers		Gasket Type	EDPM
Top	SPD702	Manufacturer	Reddiplex
Bottom	SPD703	Product Name	Flipper Gasket, Central Gasket, Threshold Gasket
Lock Side	SPD702	Product Code	ACET160R, ACPD725.ACET232
Hinge Side	SPD702	Threshold	
Outer Frame section dimensions		Manufacturer	Smart Systems
Width	70mm	Product name	Low Threshold
Depth	62mm	Product Code	SPD703
Reinforcing:		Materials	Aluminium
Manufacturer	NA	Outer Frame Joint Method	
Product Name		Head	Corner Cleat
Product code		Foot	T Joint Cleat
Material			

Leaf		Leaf Material:	Aluminium
Leaf Width:	1126mm	Leaf Gasket	
Leaf Height:	2352mm	Gasket type:	EDPM
Leaf Part Numbers:		Manufacturer:	Trelleborg
Top:	SPD705	Product Name:	Flipper Gasket
Bottom:	SPD705	Product Code	ACPD724
Lock side:	SPD705	Leaf Panel Slab	
Hinge Side	SPD705	Manufacturer:	Smart Systems
Leaf section size		Product name:	Leaf Panel Slab
Width:	129mm	Product code:	ACPD 131
Depth:	70mm	Material:	Aluminium
		Leaf joint method	
		Head:	Cleat, Glue and Tension Block
		Foot:	Cleat, Glue and Tension Block
Drip Section			
Manufacturer:	Smart Systems		
Product Name:	Drip		
Product Code:	SPD706		
Material:	Aluminium		
Drip Size:	34.5mm x 30.5mm		

Smarts Designer door With MCM Lock and Cylinders, Low Threshold. (continued)

Glazing Unit		Glazing Gasket	
Manufacturer:	Cornwall Glass	Gasket Type:	NA
Inner Thickness:	6.8mm Laminated Planitherm Total	Manufacturer:	
Spacer Material:	22 mm Warm Edge Spacer	Product Name:	
Outer Thickness:	8.8mm Laminated	Product Code	
Unit Sizes:	280mm X 1550mm x 66mm		
Glazing Tape Details		Manufacturer:	
Manufacturer:	UK Industrial Tapes	Product Name:	
Product Name:	Glazing tape	Product Code	
Product Code	ACPD902 - 909		

Hardware			Fixings	Quantity
Hinges:	ACPD730	TECNAC	M6 Machine Screws	4
Hinge Protectors:	ACPD735	Smart Systems	ACET 060	3
Lock:	ACPD682	MCM Lock	ACET060	1
Cylinders:	ACCY3345RPC ACCY3345RSS ACCY3345RTTSS ACCY3345RTTPC	MCM Polished Chrome MCM Stainless Steel MCM Stainless Steel with Thumb Turn. MCM Polished Chrome with Thumb Turn.	M5 Machine Screw	1
Flush Escutcheon	ACPD881	MCM.		1
Handle:	ACPD 630	Blu Pull Handle	Supplied with handle	2
Touch Bar:	NA			
Cylinder Support:	NA			
Keeps:	ACPD687	SUPPLIED WITH LOCK	ACET 060	1
Drip Bar	SPD706	Smart Systems	ACET099	1
Low Threshold End caps	ACPD704	Smart Systems		1 pair.
Drip End Caps	ACPD706	Smart Systems		1 pair.
Drip Section Wool Pile	ACSR011	Smart Systems		

Note – Parts list supplied by client but not verified by BSI

Test Results.

Performance Requirements.

Assessment

Annex A Security Hardware and Cylinder Test

Annex A.3.2 (Part 1)

The sample was mounted, vertically and square, in the test rig as described in Clause 3.1.

The test was carried out in accordance with the given objectives of this Annex using the procedure detailed in Annex A.3.1 and the tools described in A.2.

A craft knife and 6mm chisel was used to attack the escutcheon plate.

No entry gained within three minutes.

Pass

Annex A.3.2 (Part 2)

The sample was mounted, vertically and square, in the test rig as described in Clause 3.1.

The test was carried out in accordance with the given objectives of this Annex using the procedure detailed in Annex A.3.1 and the tools described in A.2.

The sample was closed and locked and the key removed.

The total attack time was three minutes and the total rest time was seven minutes.

No entry gained within three minutes.

Pass

Test Sample.

Sample Id	ER Number	Description
1	10184009	Aluminium single door

Description of Test Sample.

Sample Description
1 off single leaf open in cassette glazed hinged door assembly with a low threshold

Test Requirements.

PAS24 direct test

Clause	Requirements
Results table	PAS24 direct test

Glossary of Terms.

PASS: Complies. Tested by BSI engineers at BSI laboratories.

PASS1: Complies. Witnessed by BSI engineers in manufacturers laboratory.

PASS2: Complies. Tests carried out by third party lab; results accepted by BSI.

PASS*: Report resulted in uncertainty and states that Compliance is more probable than non-compliance.

FAIL: Non compliance – Product does not meet the requirements of this clause.

FAIL*: Report resulted in uncertainty and states that Non-compliance is more probable than compliance.

N/A: Not applicable to design under consideration.

N/T: Not tested due to similarity to previously tested item; reference earlier test report.

Conditions of Issue.

This Test Report is issued subject to the conditions stated in current issue of 'BSI Terms of Service'. The results contained herein apply only to the particular sample(s) tested and to the specific tests carried out, as detailed in this Test Report. The issuing of this Test Report does not indicate any measure of Approval, Certification, Supervision, Control or Surveillance by BSI of any product. No extract, abridgement or abstraction from a Test Report may be published or used to advertise a product without the written consent of BSI, who reserve the absolute right to agree or reject all or any of the details of any items or publicity for which consent may be sought.

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*** End of Report ***