

BS 6375-2&3:2009



Test of: Inward-Opening Single Timber Doorset

Performance of windows & doors - Part 2: Operation & strength & Part 3: Additional performance characteristics

A Report To: Selectron Halkal-¦ Merkez Mah,Sengul Sok.No:6,Istanbul,Turkey,34303

Document Reference: WIL 414071

Date: 20/08/2019

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TEST CONCLUSIONS

Samples of:	
Manufacturer	Selectron
Product	Doorset
Model	Inward-Opening Single Timber Doorset

have been tested in accordance with: BS6375-2:2009 & BS6375-3:2009 Annex A&C. By Element Materials Technology, a UKAS accredited Testing Laboratory (No. 0621)

At Unit 3 Wednesbury One, Black Country New Road, Wednesbury, WS10 7NZ. Results and comments as detailed below:

BS6375-2 Clause	Description	Compliance
6.1	UK Category of Duty - Medium	NO
6.2	Operating forces – Class 1	YES
6.3	Mechanical strength – Class 2	YES
6.3.1	Vertical load – Class 2	YES
6.3.2	Static torsion – Class 2	YES
6.3.3	Soft and heavy body impact – Class 2	YES
6.3.4	Hard body impact – Class 2	YES
6.4	Load bearing capacity of safety devices – 350N	N/A
6.5	Resistance to repeated opening and closing – Class 4	N/T
BS6375-3 Clause	Description	Compliance
Annex A	Basic security	YES
Annex C	Closure against obstruction	YES

No inferences can be made regarding performance against other requirements of this standard

Tests marked " N/A" are not applicable to the sample under test. Tests marked "N/T" were not applied to the sample under test

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AUTHORISATION

Tests performed by: Josh Ratcliffe, Test Engineer		
Report issued by: Chris Bryan, Senior Test Engineer		
Signed		
Date 20 th August 2019		
For and on behalf of Element Materials Technology		
Report authorised by: Mark West, Door & Window Laboratory Manager		
Signed West		
Date 20 th August 2019		
For and on behalf of Element Materials Technology		
Report issued: 20 August 2019		
NOTE. Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS		



accreditation schedule.

Tests marked NT were not tested Tests marked NA are not applicable to the product on test.

The laboratory has tested the product supplied by the client as sampled in accordance with their own requirements

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TEST DETAILS

CLIENT DETAILS

Company name	Selectron
Address	Halkal-¦ Merkez Mah
	Sengul Sok.No:6
	Istanbul
	Turkey
	34303

Contact

Huseyin Caliskan

ORDER DETAILS

Order number Dated SLN190502

SAMPLE DETAILS

Outer frame	1140 x 2390 x 80mm
Opening leaves	1050 x 2380 x 70mm
Configuration	Single doorset open-in
Material	Timber
Details of Hardware	
Hinges	3No. Simonswerk BAKA 3D Hinge 4030 3D FD
Hinge protection	2No. Maco Dog Bolts 97528 & 94089
Lock	Maco Multi-Point Lock Door lock Z-TS 238354
Cylinder	Titon 3* Security Cylinder Asterion Three Star TN62 series
Handles	Pull handle LAZ 11 RY

TEST DETAILS

Test specification	BS 6375-2:2009 & BS 6375-3 :2009
Full test	No
Test to clauses	No durability testing
Test methods	BS EN 12046-2:2000 operating forces
	BS EN 947:1999 vertical load
	BS EN 948:1999 static torsion
	BS EN 949:1999 soft body impact
	BS EN 950:1999 hard body impact
	BS EN 948:1999 strength of safety devices
	BS EN 1191:2012 Annex H repeated opening & closing
	BS 6375-3:2009 Annex A basic security
	BS 6375-3:2009 Annex C closure against obstruction
Sample received	20/05/2019
Test started	20/05/2019
Test completed	20/05/2019
Special Test	

Other reports to be used in conjunction with this report

requirements

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TEST PROCEDURE

Introduction	This test report should be read in conjunction with the Standard BS 6375-2:2009 Performance of windows and doors – Part 2: Classification for operation and strength characteristics and guidance on selection & specification and Part 3: Classification for additional performance characteristics and guidance on selection and specification.
	The specimens were judged on their ability to comply with the performance criteria as required in BS 6375-2:2009 and BS6375-3:2009, with test methods BS EN 12046-2:2000, BS EN 947:1999, BS EN 948:1999, BS EN 949:1999, BS EN 950:1999, BS EN 1191:2012 Annex H and BS6375-3:2009 Annex A&C. classified in accordance with BS 6375-2:2009, BS EN 12217:2015, BS EN 1192:2000 & BS EN 12400:2002.
Instruction To Test	Initial requirement was for a UK category of use of medium duty as defined in BS6375-2, requiring a performance of Class 1 for operating forces, Class 2 for mechanical strength, a threshold value of 350N for load-bearing capacity of safety devices, and Class 5 for repeated opening and closing.
Test Specimen Construction	A description of the test construction is given in the Schedule of Components. The description is based on a detailed survey of the specimens and information supplied by the sponsor of the test.
Installation	The doorset was supplied mounted within a timber sub-frame of nominal section 75 x 100mm fitted flush with the exterior face, in accordance with the clients fitting instructions.
	Mr Huseyin Caliskan, a representative of Selectron witnessed the test.
Sampling	The samples were not independently witnessed or selected and were provided direct from the test sponsor.
Test Climate	The sample was conditioned in the laboratory in the range 15-30 °C and 25-75% humidity.
	The temperature and humidity in the lab was maintained in the range 19.4-25.1°C and 28.2-57.6% humidity for the duration of the test.

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INITIAL OBSERVATIONS

The internal face of the sample



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Sample Central

Keep

Element Materials Technology Unit Three, Wednesbury One Black Country New Road Wednesbury WS10 7NZ, UK 0121 506 7500 Element.com



Sample Hook Bolt Keep

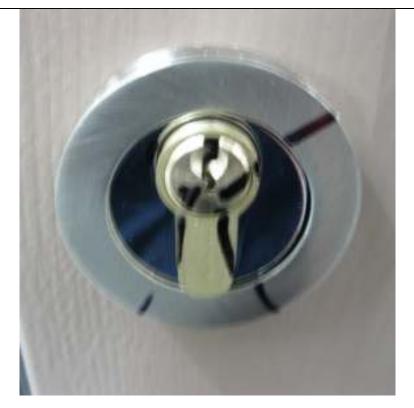
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Sample Cylinder

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Sample Latch



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Sample Dead Bolt

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Sample Hook Bolt



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Sample Hinge

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Sample Dog Bolt



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Sample Letter plate

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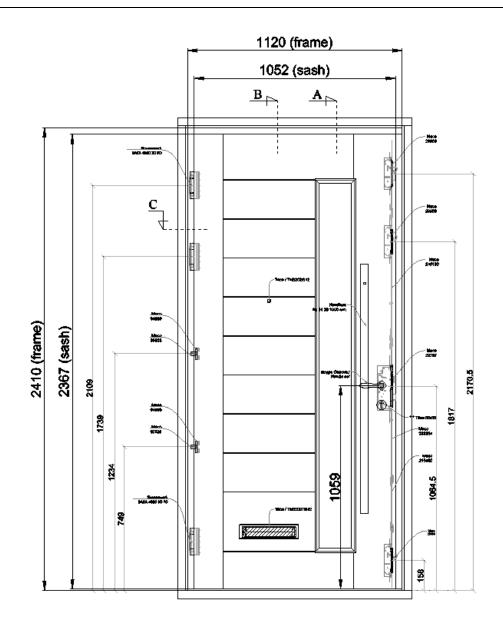


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TEST SPECIMEN

Figure 1- General Elevation of Test Specimen (External Face)



Do not scale. All dimensions are in mm

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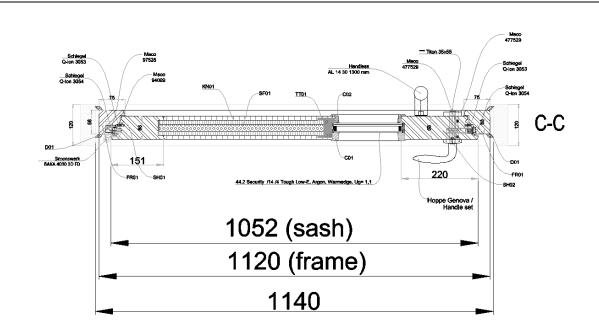
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Figure 2 – Horizontal section



Do not scale. All dimensions are in mm

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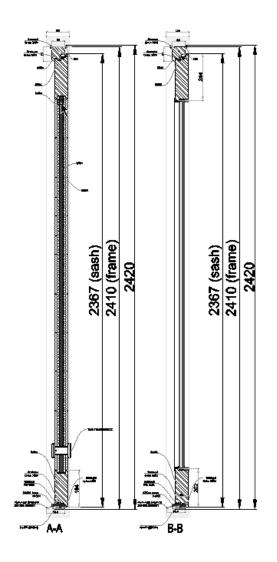
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0121 506 7500 Element.com

Figure 3 – Vertical section



Do not scale. All dimensions are in mm

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SCHEDULE OF COMPONENTS

(Refer to Figures 1 to 3) (All values are nominal unless stated otherwise) (All other details are as stated by the sponsor)

Variants

None

<u>Item</u>

Description

1. Door frame head	
Material	: Wood / Pine (Hecht & Kloth)
Density	: 450 kg/m ³ (stated)
Overall section size	: 68 x 75 mm
Rebate	: 15 mm
Fixing jamb to head joints	: Finger Joint / Conduit
Details of adhesive	
i. supplier	: SOUDAL (Belgium)
ii. reference	: D4105333
2. Door frame jamb	
Material	· Wood / Pine (Hecht & Kloth)

Material	: Wood / Pine (Hecht & Kloth)
Density	: 450 kg/m ³ (stated)
Overall section size	: 68 x 75 mm
Rebate	: 15 mm
Fixing jamb to sill joints	: Finger Joint / Conduit
Details of adhesive	
i. supplier	: SOUDAL (Belgium)
ii. reference	: D4 105333
3. Door frame threshold	
3. Door frame threshold Supplier	: Tuna Aluminum
	: Tuna Aluminum : 336 - (106 & 107)
Supplier	
Supplier Reference	: 336 - (106 & 107)
Supplier Reference Material	: 336 - (106 & 107) : Aluminium & K4477 (EPDM) Seal
Supplier Reference Material Overall section size	: 336 - (106 & 107) : Aluminium & K4477 (EPDM) Seal

- i. type
- ii. size
- iii. quantity

- 5 x 60 mm
- 6 No

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Item

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Description

4. Door leaf framing		10-50 000-5
	:	1052 x 2367 mm
Material	:	Wood / Pine (Hecht & Kloth)
Density	:	450 kg/m3
Doorleaf framing section sizes		
i. stile	:	68 x 151 mm & 68 x 220 mm
ii. top rail	:	68 x 236 mm & 68 x 244 mm
iii. bottom rail	:	68 x 194 mm & 68 x 202 mm
Glazing rebate	:	18 mm
Corner fixing method	:	Finger Joint / Conduit
Details of adhesive		D4
i. supplier	:	SOUDAL (Belgium)
ii. reference	:	105333
5. Door leaf weather seals		
Description	:	Schlegel (Germany)
Manufacturer		Schlegel
Reference		Q Lon 3053, Q Lon 3054 and PB-1018
Fixing method	:	Put into the seal groove
Position	:	All four edges
Continuity	÷	Uninterrupted by hardware
Continuity	•	Oninterrupted by hardware
6. Door leaf panels		
Material	:	Plywood
Density	:	660 kg/m3
Overall size	•	480 x 1937 mm
- · · · · · · · · · · · · · · · · · · ·	-	

- 480 x 1937 mm :
 - 68 mm
 - 2 Nail

7. Door leaf glass (IGU)

Thickness

Fixing into rebate

Supplier	:	YILDIZ CAM
Thickness	:	26 mm - Configuration (44.2 Laminated / 14 / 4
		Toughened Low-E Warmedge Spacer)
Overall size	:	197 x 1928 mm
Nominal edge clearance	:	4 mm

8. Glazing setting blocks

Supplier Material Thickness Overall size	:	Hecht & Kloth Wood / Pine 450 kg/m3 4 mm 52 x 100 mm
Overall size	•	52 X 100 MM
Overall size	:	52 x 100 mm

9. Glazing beads Material 1 Wood / Pine Hecht & Kloth Density 450 kg/m3 : Overall size : 24 x 22 mm Fixing method : Straight Brad Nails (Stainless Steel) & Silicone i. type 2 18x18x10 mm size : ii.

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Description

10. Hinges	Simonswerk
Supplier Description	: BAKA 3D Hinge
Reference	: 4030 3D FD
Primary material	: Steel
Quantity	: 3
Size of knuckle	20 mm (Diameter)
Size of blades	: 3,5x39x140mm
Fixing hinge to doorleaf	
iv. type	: Wood screws into doorleaf
v. size	5 x 40 mm
vi. quantity	: 5No
Fixing hinge to frame	
i. type	: Pins
ii. size	: M6x45 bolt
iii. quantity	: 2No
Position of hinge	
i. top hinge	: 2109 mm from bottom of door to center of hinge
ii. middle hinge	: 1739 mm from bottom of door to center of hinge
iii. bottom hinge	255 mm from bottom of door to center of hinge
11. Dog bolts	
11. Dog bolts Supplier	MACO
Supplier	: MACO : Dog bolts (Lock & Lock Keeps)
Supplier Description	: Dog bolts (Lock & Lock Keeps)
Supplier Description Reference	 Dog bolts (Lock & Lock Keeps) 97528 & 94089
Supplier Description Reference Material	: Dog bolts (Lock & Lock Keeps)
Supplier Description Reference	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel
Supplier Description Reference Material Quantity & position	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel
Supplier Description Reference Material Quantity & position Overall size	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria)
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description Reference	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS 238354
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description Reference	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS 238354 1064,5 mm from bottom of door to centre of spindle/lock
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description Reference Position Fixings i. type	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS 238354 1064,5 mm from bottom of door to centre of spindle/lock Screws
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description Reference Position Fixings i. type ii. size	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS 238354 1064,5 mm from bottom of door to centre of spindle/lock Screws 3.5 x 35 mm
Supplier Description Reference Material Quantity & position Overall size i. dog bolt ii. retaining ring / keeper 12. Lock Supplier Description Reference Position Fixings i. type	 Dog bolts (Lock & Lock Keeps) 97528 & 94089 Steel 2No & 2No 58x42x21 mm 58x32x24 mm MACO (Austria) Door lock Z-TS 238354 1064,5 mm from bottom of door to centre of spindle/lock Screws

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Description

13. Lock Keeps Supplier Description Reference	:	Maco Striker plates 1No (29787) 3No (29980)
Material i. top & bottom keeps ii. centre keep Overall size i. top & bottom keeps ii. centre keep	:	29980 29787 Metal in 8x20x120 mm 8x20x208 mm
Fixing keeps to frame i. type ii. size iii. quantity	:	Screws 4 x 30 mm 2
14. Cylinder Supplier Description Kitemark Reference Fixings i. type ii. size iii. quantity		Titon Asterion Three Star KM 631878 TN62 series Machine screw M5 x 65mm 1 No
15. Lever handles		

Supplier Description Reference Material Fixings i. type ii. size

iii. quantity

16. Door viewer

Supplier Description Reference Overall size Door hole size Fixing height (centre of viewer)

Titon 1 **Polished Chrome** : : TN8302/812 16mm diameter : 11.7mm diameter : 1509mm

Handles

Zamak

LAZ 11 RY

Wood screws

5 x 40mm

Polished Chrome

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<u>ltem</u>

Element Materials Technology Unit Three, Wednesbury One Black Country New Road Wednesbury WS10 7NZ, UK

Description

17. Letter Plate		
Supplier	:	Titon
Description	:	Polished Chrome
Reference	:	TN8200T/812
Aperture size	:	260 x 40mm
Door slot size	:	264 x 46.5mm
Fixing height (centre of letterplate)	:	306mm
Cowl	:	None fitted
Fixings		
i. type	:	Machine screws
ii. size	:	M5 x 74mm
iii. quantity	:	2

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PERFORMANCE CRITERIA & TEST RESULTS

Clause	Result			Pass/Fail
BS6375-2 6.2 Operating forces	exceed those define external doorsets & force or torque requir defined for the releva or 10Nm) for extern doorsets). The aver motion must not exc	d in table 1 of BS I class 2 (50N) for in ed to operate the har nt class in table 1 on al doorsets & class age force required eed those defined fo	he sample to latch must not EN 12217, Class 1 (75N) for ternal doorsets. The average rdware must not exceed those BS EN 12217, Class 1 (100N 2 (50N or 5Nm) for internal to commence and maintain or the relevant class in table 1 rnal doorsets & Class 2 (50N)	PASS CLASS 2
	was required to late required to disengag required to lock and	h the sample. An e the hardware. An a 0.09Nm was requir	s 2. An average force of 33.4N average force of 34.7N was verage torque of 0.12Nm was ed to unlock the doorset. An to commence and maintain	
BS6375-2 6.3.1 Vertica load	600N as required by achieve the requirem	Class 2 of EN 1192 ents of the class the	with EN 947, under a load of 2, with a preload of 200N. To resultant residual deformation en should continue to operate	PASS CLASS 2
	continued to operate	normally. The san tion under full load	vas observed, and the doorset apple met the requirements of was 1mm, and the residual	
BS6375-2 6.3.2 Static torsion	250N as required by achieve the requirem	Class 2 of EN 1192 ents of the class the	with EN 948, under a load of 2, with a preload of 200N. To resultant residual deformation en should continue to operate	PASS CLASS 2
	continued to operate	normally. The sam	vas observed, and the doorset aple met the requirements of as 23.36mm, and the residual	
BS6375-2 6.3.3 Soft & heavy body impact	The doorset was tested in accordance with EN 949, a soft & heavy body impact of 60J was applied as required for Class 2. To achieve the requirements of the class the resultant residual deformation in flatness should not exceed 2mm, and the specimen shall continue to operate normally.		PASS CLASS 2	
	The sample met the deformation of 0mm 0mm on the external	on the internal face,	es 2, with a residual and a residual deformation of	
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	WS10 7NZ, UK	
Clause	Result	Pass/Fail
	No damage was observed during the test	
BS6375-2 6.3.4 Hard body impact	The doorleaf was tested in accordance with EN 950, hard body impacts of 3J were applied as required for class 2.	PASS
inpuot	To achieve the requirements of the class the mean value of the diameters of indentation should not exceed 20mm, and the mean values of the depths of indentation should not exceed 1.0mm, with the maximum depth not exceeding 1.5mm.	e
	The sample met the requirements of class 2. The mean value of the depth of indentation was 0.12mm. The maximum value of the depth of indentation was 0.5mm. The mean value of the diameter of indentation was 8.71mm.	
	No damage was observed during the test.	
BS6375-2 6.4 Load- bearing	The doorset was tested in accordance with the requirements of E 14351-1, a load of 350N was applied with the safety device engaged.	
capacity of safety devices	This test was not carried out as no such device was fitted to the doorse	et.
BS6375-2 6.5 Resistance to repeated opening and closing	Testing not carried out	N/T
BS6375-3 Annex A Basic security	Testing was carried out on the doorset, the total attack time required was 3 minutes.	PASS
	Attacks were made with the craft knife to try and remove the beading from around the glazing and attempt to lever out the glazing. Some of the beading was removed, but no further damage was made. Total attack time was 3 minutes. Entry not achieved	
	Entry was not gained and the test was deemed to pass.	
BS6375-3 Annex C Closure agains obstruction	Testing was carried out on the doorset. No visible damage was observed under the application of a 200N load with the bottom hing out corner obstructed from closing.	
	Following testing the operating forces met the requirements of Class An average force of 34.6N was required to latch the sample. An average force of 33N was required to disengage the hardware. An average torque of 0.11Nm was required to lock and 0.07Nm was required unlock the doorset.	je je
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Clause	Result	Pass/Fail
	An average force of 24.97N was required to commence and maintain motion.	

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CONCLUSIONS

Evaluation against objective	The sample as provided by the client was subjected to operational & strength testing in accordance with BS 6375-2:2009 and failed to achieve the requirements for a UK category of use of medium duty for clauses 6.1, 6.2, 6.3 and 6.4 only.
	The sample was also subjected to closure against obstruction testing in accordance with BS 6375-3:2009 Annex A & Annex C and achieved the requirements

Observations & comments

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LIMITATIONS

Limitations	The results relate only to the behaviour of the specimens of the element of construction under the particular conditions of test. They are not intended to be the sole criteria for assessing the potential performance of the element in use, nor do they reflect the actual behaviour in use.
Range of door assemblies covered by this	It is our opinion that the range of door assemblies covered by this report are limited to the following
report	 Assemblies with identical hardware fitted no further apart than in the tested assembly Assemblies of the same or smaller overall dimensions to the tested assembly
Uncertainty of Measurement	The uncertainties of measurements calculated for a confidence level of 95% throughout these tests are within the limits of these tolerances.
	The standard specifies the following tolerances
	 Forces: ±2% Distances: ±1mm for tape measures ± 0.01mm for dial gauges Times: ±5s

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REVISION HISTORY

This issue of the report replaces all previous issues that are now withdrawn.

Issue No :	Re - Issue Date :	
Revised By:	Approved By:	
Reason for Revision:		

END OF REPORT

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