

# BS EN 1125 : 2008 PANIC EXIT DEVICE ON A DOUBLE DOOR



## TESTS OF PANIC EXIT DEVICE OPERATED BY A HORIZONTAL BAR

A Report To: **Mr Simon Jones**  
**The Parkside Group Ltd**  
**Unit 5, The Willow Centre**  
**17 Willow Lane**  
**Mitcham**  
**Surrey**

Document Reference: **WIL - 407550**

Product: **PR-7200-AL CVR Touch bar on**  
**Double Door Plain Meeting Styles**

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**Issue No:** No 1

Page 1

**Testing**  
**Advising**  
**Assuring**

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## TEST CONCLUSIONS

Samples of:

Manufacturer The Parkside Group Ltd  
Product Panic Exit Devices  
Model PR-7200-AL CVR Touch bars on plain meeting style doors with LH725 OAD

have been tested in accordance with:

BSEN 1125 : 2008 ( Building hardware – Panic exit devices operated by a horizontal bar.) [Tested on steel frame door with timber inserts]

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:

Clause No.	Description	Comment
4.1 Z	Design requirements: These comments are not and cannot be covered by the Laboratory UKAS accreditation as there are no defined test methods for these in the standard.	
4.1.2	Release Function	Satisfactory
4.1.3	Panic Exit Device Mounting	Satisfactory
4.1.4	Corrosion Resistance	Grade 3 (96 Hours)
4.1.5	Exposed Edges and Corners	Satisfactory
4.1.6	Temperature range	Satisfactory
4.1.7	Double Doorset	Satisfactory
4.1.8	Suitability of Panic Exit Devices For Use on Smoke/Fire Resisting Doorsets	No Fire Evidence
4.1.9	Bar Installation	Satisfactory
4.1.10	Bar Length	Satisfactory
4.1.11	Bar Projection	Satisfactory
4.1.12	Bar End	Satisfactory
4.1.13	Operating Bar Face	Satisfactory
4.1.14	Test Rod	Satisfactory
4.1.15	Door Face Gap	Satisfactory
4.1.16	Accessible Gap	Satisfactory
4.1.17	Door Free Movement	Satisfactory
4.1.18	Top Vertical Bolt	Satisfactory
4.1.19	Covers For Vertical Rods	Satisfactory
4.1.20	Keepers	Satisfactory
4.1.21	Keeper Dimensions	Satisfactory
4.1.22	Lubrication	Satisfactory
4.1.23	Door Mass and Dimensions	Satisfactory
4.1.24	Outside Access Device	Satisfactory
4.1.25	Dangerous Substances	Satisfactory

Clause No.	Description	Compliance
<b>4.2</b>	<b>Performance requirements</b>	
4.2.2.1 Z	Release force door not under pressure	Yes *
4.2.2.2 Z	Release force door under pressure	Yes *
4.2.3 Z	Re-engagement force	Yes *
4.2.4 Z	Durability	Yes *
4.2.5 Z	Abuse resistance – bar	Yes *
4.2.6 Z	Abuse resistance – vertical rods	N/t
4.2.7 Z	Security requirement	Yes *
4.2.8 Z	Final examination	Yes *
4.2.9 Z	Corrosion resistance	Yes *
6.2.2 Z	Temperature Test	Yes *
<b>8</b>	<b>Marking</b>	
<b>8.1</b>	<b>Device marked with</b>	
	CE Marking Symbol	Yes
	Identification number of the certification body	Yes
	Manufactures identification	Yes
	Number of standard	Yes
	Classification Code	Yes
	Month and year of final assembly	Yes
<b>8.2</b>	<b>Packing marked on outside with</b>	
	Manufacturers identification	Yes
	Number of standard	Yes
	Product reference number	Yes
<b>8.3</b>	<b>On Installation Instructions</b>	
	CE Marking Logo	Yes
	Identification number of the certification body	Yes
	Manufacturers identification	Yes
	Registered address of the producer	Yes
	Last 2 digits for Year in which marking was applied	Yes
	Number of EC certificate of conformity	Yes
	Number of Standard	Yes
	Classification Code	Yes
	Category of Projection	Yes
	Field of door application	Yes
	Door dimension suitability	Yes
	Producer's product reference number	Yes
	Information on approved components for use on exit doors	Yes
Annex B Z	Suitable for Fire/smoke doors	No
9.1	Initial Type Test	
9.4	Periodic Audit Test	Assessment Report Only
9.5	Annual Audit Test	

**Z** indicates clause identified in annex Z applying to the essential characteristics


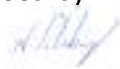
No inferences can be made regarding performance against other requirements of this standard

Tests marked "Not UKAS Accredited" are not covered by the Laboratory UKAS accreditation schedule.

Tests marked " NA" are not applicable to the type of device under test.

Tests marked "NT" cannot be applied to the type of device under test

## AUTHORISATION

Tests performed by: [Greg Ratcliffe, Senior Test Engineer]	
Report issued by: [Greg Ratcliffe, Senior Test Engineer]	
Signed	
Date	07/01/2019
For and on behalf of Element Materials Technology	
Report authorised by: [Nathan Pilsbury, Hardware Manager]	
Signed	
Date	07/01/2019
For and on behalf of Element Materials Technology	
Report issued: 07/01/2019	



0621

**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 products supplied by the client as sampled in accordance with their own requirements

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## TEST DETAILS

### CLIENT DETAILS

Company Name	The Parkside Group Ltd
Address	Unit 5, The Willow Centre 17 Willow Lane Mitcham Surrey
Post code	N/a
Contact	Mr Simon Jones

### ORDER DETAILS

Order number	Email
Dated	26/11/2018

### SAMPLE DETAILS

Product	Panic Exit Device
Horizontal Bar Model	PR-7200-AL CVR Touch bar
OAD Models	Tail Key Cylinder OAD
Markings	Satisfactory
Manufacturer	The Parkside Group Ltd
Date of Manufacture	Evidence Supplied

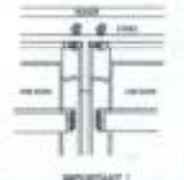
## TEST DETAILS

Test specification	BSEN 1125 : 2008 Building hardware – panic devices operated by a horizontal bar
Full test	Assessment Test
Test to clauses	Assessment Report Only
Type of bar operation	Type "B" - Touch Bar
Projection category	Category 2 - Projection Upto 100mm
Test door mass	200Kg
Test cycles	200,000 Cycles
Dead Bolt Cycles	N/a
Application	Double Door Application
Corrosion resistance	Grade 3 ( 96 Hours ) *
Date sample received	N/a
Date test started	07/01/2019
Date test completed	07/01/2019
Special Test requirements	The following OAD tail cylinders have been checked for compliance during testing :- RC-785-AL / RC-787-AL / RC789-AL & RC-791-AL  Assessment report to cover PR-7200-AL CVR touchbars for use on double door plain meeting styles
Other reports to be used in Conjunction with this report	WIL 398607-2



# FITTING INSTRUCTIONS

### INSTALLATION INSTRUCTION CHECKLIST

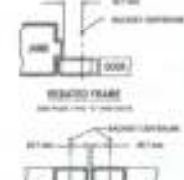


**IMPORTANT!**

This installation is undertaken in line with the manufacturer's instructions. It is the responsibility of the installer to ensure that the door is installed correctly and that the door is used in accordance with the manufacturer's instructions.

**NOTE:** This is a general guide only. It is not intended to be a substitute for the manufacturer's instructions. Always refer to the manufacturer's instructions for the correct installation procedure.

**HOW TO PREPARE:**




**RELATED FRAME**

80mm  
80mm  
80mm

**FOR DOOR**

80mm  
80mm  
80mm


### STEP 1



1. MARK AND DRILL THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

2. MARK AND DRILL THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 2



3. PREPARE THE DOOR FRAME TO BE INSTALLED.

4. PREPARE THE DOOR FRAME TO BE INSTALLED.


### STEP 3



5. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

6. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 4



7. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

8. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 5



9. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

10. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 6



11. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

12. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 7



13. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

14. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 8



15. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

16. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

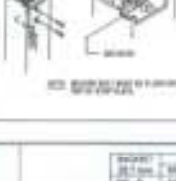
### STEP 9



17. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

18. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 10



19. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

20. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 11



21. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

22. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.


### STEP 12



23. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

24. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

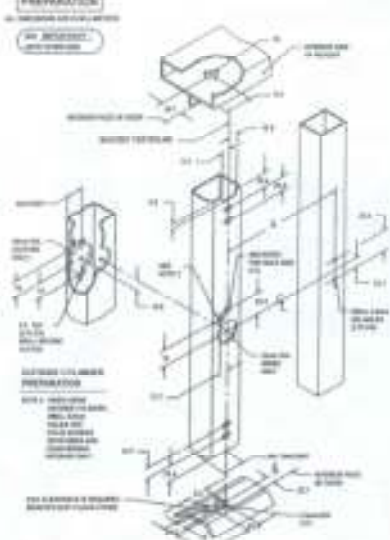
### STEP 13



25. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

26. CHECK THE POSITION OF THE DOOR FRAME TO BE INSTALLED.

### PREPARATION

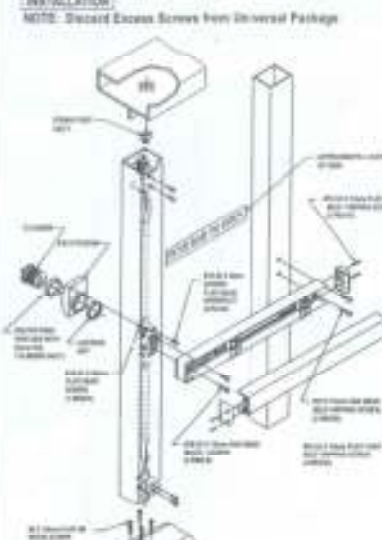


1. PREPARE THE DOOR FRAME TO BE INSTALLED.

2. PREPARE THE DOOR FRAME TO BE INSTALLED.

### INSTALLATION


**NOTE: Discard Excess Screws from Universal Package**



1. INSTALL THE DOOR FRAME TO BE INSTALLED.

2. INSTALL THE DOOR FRAME TO BE INSTALLED.

### FINISHING



1. FINISH THE DOOR FRAME TO BE INSTALLED.

2. FINISH THE DOOR FRAME TO BE INSTALLED.



## TEST RESULTS

**DESIGN REQUIREMENTS:** These comments are not and cannot be covered by the Laboratory UKAS accreditation as there are no defined test methods for these in the standard.

Clause No	SPECIFICATION	REQUIREMENT	Comment
4.1.2	Release Function	Must release the door from the inside with single hand operation No key or other device required.	Release's Immediately
4.1.3	Panic Exit Device Mounting	On Inside face of door. Within Door.	Surface & Concealed
4.1.4	Corrosion Resistance	The corrosion resistance shall be at least a grade 3 ( 96 Hours )	Grade 3 (96 Hours)
4.1.5	Exposed Edges & Corners	All exposed corners likely to cause damage must have radius not less than 0.5mm	No Sharp Edges
4.1.6	Temperature Range	Must be suitable for operation between -10°C + +60°C	Satisfactory
4.1.7	Double Doorset	Device shall allow both leaves to be opened simultaneously and to swing freely in the direction of exit once the door has been released.	Satisfactory
4.1.8	Suitability of Emergency exit Devices for use on smoke/fire doors	Emergency exit devices that are suitable for use on smoke/fire-resisting door sets.	No Fire Evidence
4.1.9	Bar Installation	The effective bar shall be installed at no more than 150mm from the door frame.	Active = 26mm Inactive = 26mm
4.1.10	Bar Length	The effective length of the bar shall be no less than 60% of overall opening width.	<u>850mm</u> = 66% 1300mm
4.1.11	Bar Projection	Projection must no exceed:- 150mm for category 1 device (Standard projection). 100 mm for category 2 device (Low projection)	Active = 78mm Inactive = 78mm Category 2
4.1.12	Bar End	The push bar of a type A device must not protrude beyond either of the end support brackets.	N/a
4.1.13	Operating Bar Face	Type A minimum vertical height of push bar with door secured 18mm. Type B minimum height of operating face 18mm. Operating face shall not be less than 60% of overall height. With bar depressed operating face shall protrude minimum of 3mm from non – operable member. The operating face shall not be less than 25mm from the door face.	N/a <u>61mm</u> = 87% 70mm 10mm 50mm
4.1.14	Test Rod	It must not be possible to trap a 10mm dia test rod x 100mm in length during operation of the device.	Satisfactory
4.1.15	Door Face Gap	Minimum gap between bar and door face shall be 25mm at any position of the bar travel during operation of device.	N/a

4.1.16	Accessible Gap	Top surface of bar or chassis or other mounting must not have any gap such that a steel test piece of dimensions 10mm x 15mm x 20mm in any orientation can prevent correct operation	Satisfactory
4.1.17	Door Free Movement	The device once released to open does not restrict the free movement of the door. Design may include automatic re-latching device or dogging device. An exit device shall be designed to avoid accidental release of the bottom bolt, preventing free opening of the door.	No Restriction Auto Top Trip Satisfactory
4.1.18	Top Vertical Bolt	Releasing or manipulation of the bottom bolt head must not release top bolt head.	Anti Thrust Mechanism
4.1.19	Covers For Vertical Rods	If covers are fitted 1) must have secure fixings only removable with a tool. or 2) If not secure fixing requiring tool for removal must meet requirements of 4.2.6.	Concealed Vertical Rods
4.1.20	Keepers	Top Bottom Latch	X2 Top and X 2 Bottom Keepers
4.1.21	Keepers Dimensions	Flush Socket easy to clean. Surface Keeper dimensions. Max height 15 mm Max angle in direction of exit 45° Max upstand 3 mm	Flush Floor
4.1.22	Lubrication	Where necessary provision shall be made for lubrication. Lubrication should not be applied before completing 20,000 cycles and at no less intervals than 20,000 thereafter.	Satisfactory
4.1.23	Door Mass and Dimensions	Device suitable for doors up to 2520mm high, 1320mm wide and 200Kg mass.	2520mm x 1320mm / 200Kg
4.1.28	Outside Access Device	The OAD shall not in any way render the exit device inoperable from the inside. The installation instructions shall clearly indicate the approved configurations for outside access. When a OAD is operated with a key or thumbturn if the size and any position of the OAD can stop the device operating it shall be stated in the installation instructions. If blocking the OAD lever handle from the outside stops the operation of the device from the inside this shall be stated in the installation instructions.	Satisfactory Satisfactory N/a N/a
4.1.29	Dangerous Substances	Materials in this device shall not contain or release any dangerous substance in excess of the maximum levels specified in the existing European Standards.	Information to be Supplied by the Customer

Comments on Design Requirements, Clause 4

The comments in the table above on the design requirements are as observed by the test engineer on the sample as installed for test. No other observations with regard to actual design of the device are included.

## SAMPLE A – ENVIROMENTAL TEST

### ACTIVE LEAF

Clause No	CHAMBER TEMPRETURE	REQUIREMENT	Result or Detail	P = Pass F = Fail
6.2.2.2	+20°C	Exposed for minimum of 4 hours	1) 32.1N 2) 33.2N 3) 30.1N	<b>Pass</b>
6.2.2.2	+60°C	Exposed for minimum of 4 hours	1) 38.2N 2) 38.0N 3) 39.1N	<b>Pass</b>
6.2.2.2	+60°C	Operating force no more than 50% in excess of operating forces measured at +20°C	20.85%	<b>Pass</b>
6.2.2.2	-10°C	Exposed for minimum of 4 hours	1) 33.0N 2) 32.8N 3) 31.9N	<b>Pass</b>
6.2.2.2	-10°C	Operating force no more than 50% in excess of operating forces measured at +20°C	11.86%	<b>Pass</b>

### INACTIVE LEAF

Clause No	CHAMBER TEMPRETURE	REQUIREMENT	Result or Detail	P = Pass F = Fail
6.2.2.2	+20°C	Exposed for minimum of 4 hours	1) 32.1N 2) 33.2N 3) 30.1N	<b>Pass</b>
6.2.2.2	+60°C	Exposed for minimum of 4 hours	1) 38.2N 2) 38.0N 3) 39.1N	<b>Pass</b>
6.2.2.2	+60°C	Operating force no more than 50% in excess of operating forces measured at +20°C	20.85%	<b>Pass</b>
6.2.2.2	-10°C	Exposed for minimum of 4 hours	1) 33.0N 2) 32.8N 3) 31.9N	<b>Pass</b>
6.2.2.2	-10°C	Operating force no more than 50% in excess of operating forces measured at +20°C	11.86%	<b>Pass</b>

Formula for temperature change in %	Formula for temperature change in %
$\frac{\text{Average High Temp} - \text{Average Ambient Temp}}{\text{Average Ambient Temp}} \times 100$	$\frac{\text{Average Low Temp} - \text{Average Ambient Temp}}{\text{Average Ambient Temp}} \times 100$



Device settings: after reassemble to rig

Active door	Top engagement	7mm
	Bottom engagement	8mm
	Free play	1mm
Inactive door	Top engagement	7mm
	Bottom engagement	8mm
	Free play	1mm

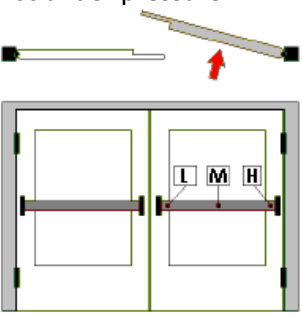
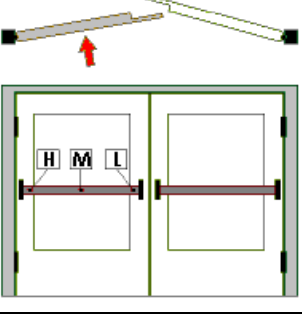
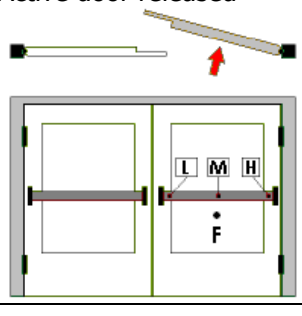
Test No	6.2.3.3.2 Post test release force Active leaf 120 N maximum				6.2.3.3.2 Post test release force Inactive leaf 120 N maximum			
	Centre	Hinge end	Bolt end	P = Pass F = Fail	Centre	Hinge end	Bolt end	P = Pass F = Fail
1								
2								
3								
4								
5								
6								
7								
<b>8</b>	58.8N	75.5N	93.5N	Pass	58.8N	75.5N	93.5N	Pass
<b>9</b>	67.6N	96.0N	92.2N	Pass	67.6N	96.0N	92.2N	Pass
<b>10</b>	64.6N	92.8N	96.8N	Pass	64.6N	92.8N	96.8N	Pass
	Rate of force 8 – 10		20.2N/sec		Rate of force 8 – 10		20.2N/sec	
	Ambient temperature		21.1°C		Ambient temperature		21.1°C	

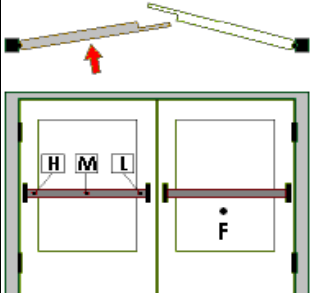
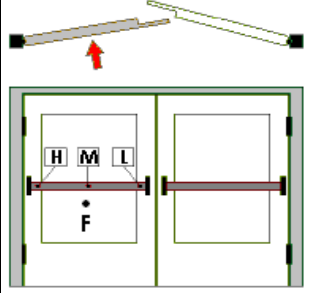
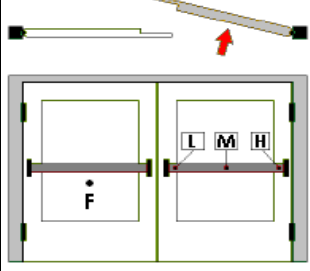

Comments on Corrosion Tests

Device Complies with the corrosion resistance tests.

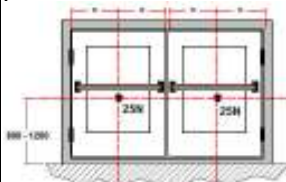
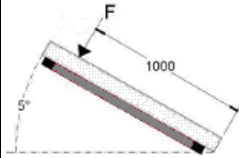
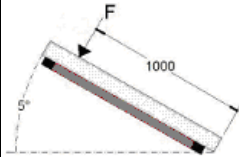
## SAMPLE B – DESIGN AND PERFORMANCE RESULTS

### PERFORMANCE TESTS BEFORE DURABILITY

Clause No	SPECIFICATION	REQUIREMENT	Result / Detail	P = Pass F = Fail
	Initial set up of device on active door	Top bolt engagement Bottom bolt engagement Door free play	7mm 8mm 1mm	N/a
	Initial set up of device on inactive door	Top bolt engagement Bottom bolt engagement Door free play	7mm 8mm 1mm	N/a
	Gap between bolts and keepers	Latch Bolt Top Bolt Bottom Bolt	--- 0mm 3mm	N/a
6.3.2.1.2	Active leaf not under pressure 	No load on either leaf measure force to actuate active leaf bar at centre and within 25mm of each end 3 times. Maximum value 80N applied at a rate of 20 N/sec  actual rate 20.2N/sec  Ambient temp 23.7°C	Centre: 1) 36.4N 2) 33.5N 3) 34.4N Hinge end: 1) 43.7N 2) 42.3N 3) 38.9N Latch end: 1) 39.5N 2) 37.0N 3) 37.2N	Pass  Pass  Pass
6.3.2.1.2	Inactive leaf not under pressure release 	No load on either door measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times Maximum value 80N applied at a rate of 20 N/sec  actual rate 20.2N/sec	Centre: 1) 36.4N 2) 33.5N 3) 34.4N Hinge end: 1) 43.7N 2) 42.3N 3) 38.9N Latch end: 1) 39.5N 2) 37.0N 3) 37.2N	Pass  Pass  Pass
6.3.2.2.2	a) Door under pressure Active door loaded Active door released 	Load of 1000N 550mm from pivot of active leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec  actual rate 20.2N/sec	Centre: 1) 73.4N 2) 74.9N 3) 74.3N Hinge end: 1) 73.8N 2) 83.0N 3) 76.6N Latch end: 1) 83.4N 2) 84.0N 3) 81.4N	Pass  Pass  Pass

6.3.2.2.2	<p>b) Door under pressure Active door loaded Inactive door released</p> 	<p>Load of 1000N 550mm from pivot of active leaf measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            20.2N/sec</p>	<p>Centre: 1) 36.4N 2) 33.5N 3) 34.4N Hinge end: 1) 43.7N 2) 42.3N 3) 38.9N Latch end: 1) 39.5N 2) 37.0N 3) 37.2N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
6.3.2.2.2	<p>c) Door under pressure Inactive door loaded Inactive door released.</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on inactive leaf at centre and within 25 mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            20.2N/sec</p>	<p>Centre: 1) 73.4N 2) 74.9N 3) 74.3N Hinge end: 1) 73.8N 2) 83.0N 3) 76.6N Latch end: 1) 83.4N 2) 84.0N 3) 81.4N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
6.3.2.2.2	<p>d) Door under pressure Inactive door loaded Active door released</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            20.2N/sec</p>	<p>Centre: 1) 36.4N 2) 33.5N 3) 34.4N Hinge end: 1) 43.7N 2) 42.3N 3) 38.9N Latch end: 1) 39.5N 2) 37.0N 3) 37.2N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
	<p>Active door under 25N pressure release test</p> 	<p>Release forces measured with 25N side load applied to the door in the direction of exit</p>	<p>Centre: 1) 36.3N Hinge end: 1) 42.4N Latch end: 1) 40.9N</p>	<p>N/a</p>



	Inactive door under 25N pressure release test 	Release forces measured with 25N side load applied to the door in the direction of exit	Centre: 1) 36.3N Hinge end: 1) 42.4N Latch end: 1) 40.9N	N/a
6.3.7	Security test	In all 6.3.2.2 tests doors held closed until released.	Yes	Pass
6.3.3	Re-engaging test active leaf. 	Both doors open to 10° apply force to active leaf 1000mm from pivot to close inactive leaf  3 times maximum value 50N	1) 12.6N 2) 13.0N 3) 12.5N	Pass
6.3.3	Re-engaging test Inactive leaf. 	Inactive leaf closed and latched Inactive leaf open to 10° apply force to active leaf 1000mm from the pivot to close active leaf  3 times maximum value 50N	1) 12.6N 2) 13.0N 3) 12.5N	Pass

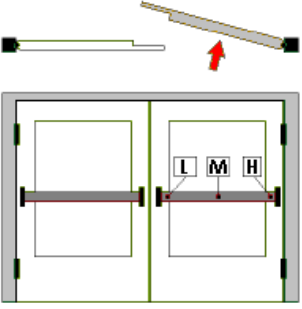
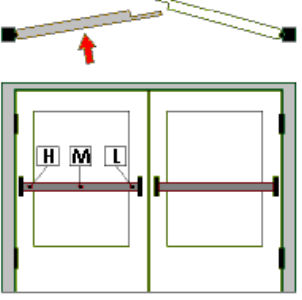
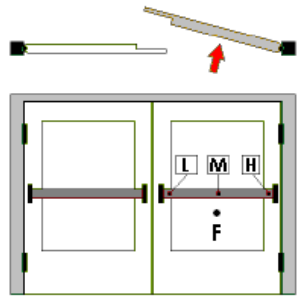
## **DURABILITY**

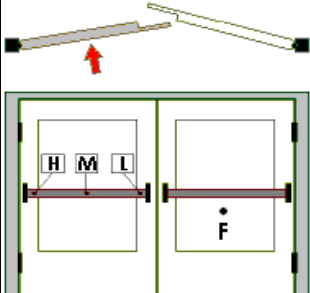
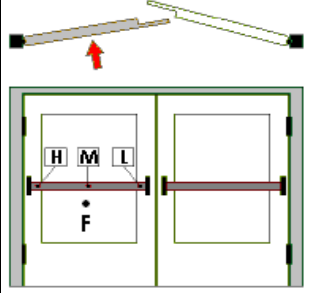
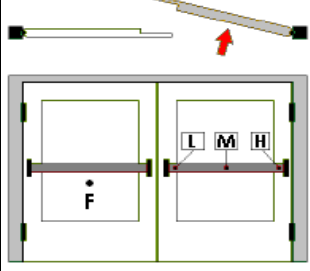

Clause No	SPECIFICATION	REQUIREMENT	RESULTS / DETAILS	P = Pass F = Fail
6.3.4	Durability tests cycle Active	Cycles required:- 1) 200,000	Cycles completed: 1) 200,000	Pass
6.3.4	Durability tests cycle Inactive	Cycles required:- 1) 200,000	Cycles completed: 1) 200,000	Pass
6.3.4	Durability tests cycle C	Cycles required:- 1) ---	Cycles completed: 1) ---	N/a
6.3.4	Deadbolt durability test cycles	Cycles required:- 1) ---	Cycles completed: 1) ---	N/a


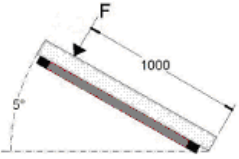
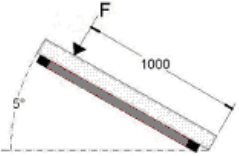
Comments on condition after durability

No problems with the device during testing

### PERFORMANCE TESTS AFTER DURABILITY

Clause No	SPECIFICATION	REQUIREMENT	Result / Detail	P = Pass F = Fail
	Initial set up of device on active door	Top bolt engagement Bottom bolt engagement Door free play	7mm 7mm 1mm	N/a
	Initial set up of device on inactive door	Top bolt engagement Bottom bolt engagement Door free play	7mm 7mm 1mm	N/a
	Gap between bolts and keepers	Latch Bolt Top Bolt Bottom Bolt	--- 0mm 3mm	N/a
6.3.2.1.2	Active leaf not under pressure 	No load on either leaf measure force to actuate active leaf bar at centre and within 25mm of each end 3 times. Maximum value 80N applied at a rate of 20 N/sec  actual rate 19.9N/sec  Ambient temp 22.3°C	Centre: 1) 39.1N 2) 40.4N 3) 38.6N Hinge end: 1) 43.6N 2) 44.4N 3) 38.6N Latch end: 1) 49.2N 2) 48.0N 3) 49.1N	Pass  Pass  Pass
6.3.2.1.2	Inactive leaf not under pressure release 	No load on either door measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times Maximum value 80N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 39.1N 2) 40.4N 3) 38.6N Hinge end: 1) 43.6N 2) 44.4N 3) 38.6N Latch end: 1) 49.2N 2) 48.0N 3) 49.1N	Pass  Pass  Pass
6.3.2.2.2	a) Door under pressure Active door loaded Active door released 	Load of 1000N 550mm from pivot of active leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 149.5N 2) 152.1N 3) 154.6N Hinge end: 1) 137.2N 2) 97.5N 3) 141.0N Latch end: 1) 198.1N 2) 171.8N 3) 167.2N	Pass  Pass  Pass

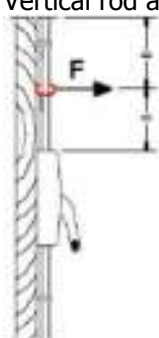


6.3.2.2.2	<p>b) Door under pressure Active door loaded Inactive door released</p> 	<p>Load of 1000N 550mm from pivot of active leaf measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            19.9N/sec</p>	<p>Centre: 1) 39.1N 2) 40.4N 3) 38.6N Hinge end: 1) 43.6N 2) 44.4N 3) 38.6N Latch end: 1) 49.2N 2) 48.0N 3) 49.1N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
6.3.2.2.2	<p>c) Door under pressure Inactive door loaded Inactive door released.</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on inactive leaf at centre and within 25 mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            19.9N/sec</p>	<p>Centre: 1) 149.5N 2) 152.1N 3) 154.6N Hinge end: 1) 137.2N 2) 97.5N 3) 141.0N Latch end: 1) 198.1N 2) 171.8N 3) 167.2N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
6.3.2.2.2	<p>d) Door under pressure Inactive door loaded Active door released</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            19.9N/sec</p>	<p>Centre: 1) 39.1N 2) 40.4N 3) 38.6N Hinge end: 1) 43.6N 2) 44.4N 3) 38.6N Latch end: 1) 49.2N 2) 48.0N 3) 49.1N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
	<p>Active door under 25N pressure release test</p> 	<p>Release forces measured with 25N side load applied to the door in the direction of exit</p>	<p>Centre: 1) 42.3N Hinge end: 1) 48.4N Latch end: 1) 50.7N</p>	<p>N/a</p>

	<p>Inactive door under 25N pressure release test</p> 	<p>Release forces measured with 25N side load applied to the door in the direction of exit</p>	<p>Centre:                  1) 42.3N                  Hinge end:                  1) 48.4N                  Latch end:                  1) 50.7N</p>	<p>N/a</p>
6.3.7	<p>Security test</p>	<p>In all 6.3.2.2 tests doors held closed until released.</p>	<p>Yes</p>	<p>Pass</p>
6.3.3	<p>Re-engaging test active leaf.</p> 	<p>Both doors open to 10° apply force to active leaf 1000mm from pivot to close inactive leaf</p> <p>3 times maximum value 50N</p>	<p>1) 10.8N                  2) 11.2N                  3) 10.9N</p>	<p>N/t</p>
6.3.3	<p>Re-engaging test Inactive leaf.</p> 	<p>Inactive leaf closed and latched                  Inactive leaf open to 10° apply force to active leaf 1000mm from the pivot to close active leaf</p> <p>3 times maximum value 50N</p>	<p>1) 10.8N                  2) 11.2N                  3) 10.9N</p>	<p>N/t</p>





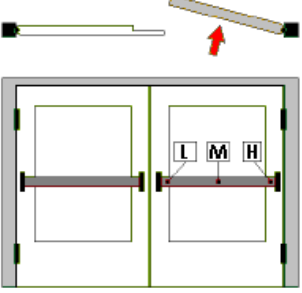
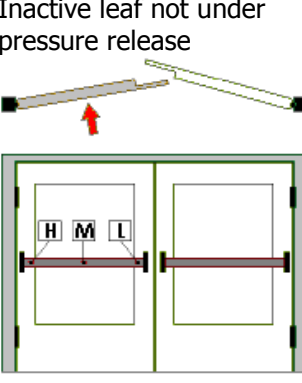
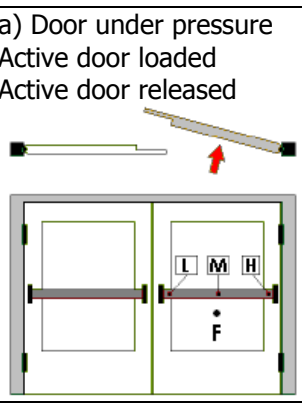
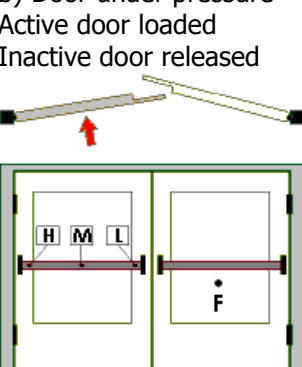
**ABUSE RESISTANCE OF VERTICAL RODS**

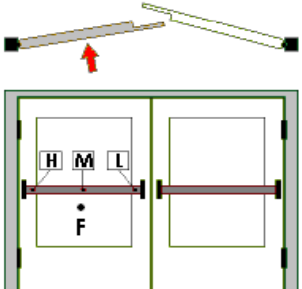
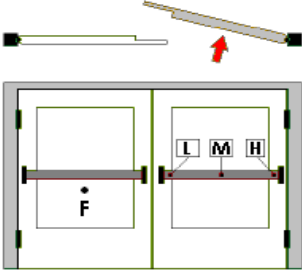
Clause No	SPECIFICATION	REQUIREMENT	Result or Detail
6.3.6	Vertical rod abuse test 	500N applied at midpoint of the longest unsupported length of surface fixed vertical rods perpendicular to door face.	Force Applied N/t
4.1.14	Test Rod 	It must not be possible to trap a 10mm dia test rod x 100mm in length during operation of the device.	N/t
4.1.15	Door Face Gap 	Minimum gap between bar and door face shall be 25mm at any position of the bar travel during operation of device. The first 25mm of each end of the bar may have the gap reduced to 20mm.	N/t
	Operation of the device	The device shall continue to be operable after testing.	N/t

The abuse test on the vertical rod could not be performed as the vertical rods are concealed within Aluminium.



## FINAL EXAMINATION

Clause No	SPECIFICATION	REQUIREMENT	Result / Detail	P = Pass F = Fail
6.3.8	Active leaf not under pressure 	No load on either leaf measure force to actuate active leaf bar at centre and within 25mm of each end 3 times. Maximum value 80N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 37.6N 2) 34.7N 3) 37.3N Hinge end: 1) 43.3N 2) 41.4N 3) 43.2N Latch end: 1) 42.0N 2) 43.6N 3) 44.5N	Pass   Pass  Pass
6.3.8	Inactive leaf not under pressure release 	No load on either door measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times Maximum value 80N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 37.6N 2) 34.7N 3) 37.3N Hinge end: 1) 43.3N 2) 41.4N 3) 43.2N Latch end: 1) 42.0N 2) 43.6N 3) 44.5N	Pass   Pass  Pass
6.3.8	a) Door under pressure Active door loaded Active door released 	Load of 1000N 550mm from pivot of active leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 133.8N 2) 117.2N 3) 133.6N Hinge end: 1) 129.7N 2) 122.5N 3) 134.8N Latch end: 1) 162.9N 2) 158.3N 3) 168.0N	Pass   Pass  Pass
6.3.8	b) Door under pressure Active door loaded Inactive door released 	Load of 1000N 550m from pivot of active leaf measure force to activate bar on inactive leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec  actual rate 19.9N/sec	Centre: 1) 37.6N 2) 34.7N 3) 37.3N Hinge end: 1) 43.3N 2) 41.4N 3) 43.2N Latch end: 1) 42.0N 2) 43.6N 3) 44.5N	Pass   Pass  Pass

6.3.8	<p>c) Door under pressure Inactive door loaded Inactive door released.</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on inactive leaf at centre and within 25 mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            19.9N/sec</p>	<p>Centre: 1) 133.8N 2) 117.2N 3) 133.6N Hinge end: 1) 129.7N 2) 122.5N 3) 134.8N Latch end: 1) 162.9N 2) 158.3N 3) 168.0N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
6.3.8	<p>d) Door under pressure Inactive door loaded Active door released</p> 	<p>Load of 1000N 550mm from pivot of inactive leaf measure force to activate bar on active leaf at centre and within 25mm of each end 3 times. Maximum value 220N applied at a rate of 20 N/sec</p> <p>actual rate            19.9N/sec</p>	<p>Centre: 1) 37.6N 2) 34.7N 3) 37.3N Hinge end: 1) 43.3N 2) 41.4N 3) 43.2N Latch end: 1) 42.0N 2) 43.6N 3) 44.5N</p>	<p>Pass</p> <p>Pass</p> <p>Pass</p>
4.1.17	Door Free Movement	<p>The device once released to open does not restrict the free movement of the door. Design may include automatic re-latching device or dogging device. An exit device shall be designed to avoid accidental release of the bottom bolt, preventing free opening of the door.</p>	<p>No Restriction</p> <p>Auto Top Trip</p> <p>Satisfactory</p>	<p>Pass</p>

DETAILS OF ALL TEST OMITTED throughout the test series

The abuse forces in the outwards directions could not be performed due to the design of the device.

The abuse forces in the upwards and downwards directions while in the dogged positions could not be performed due to the design of the device.

The abuse test on the vertical rod could not be performed as the vertical rods are concealed within Aluminium.

DETAILS OF ANY DAMAGE OR FRACTURE.

(Include all details of possible causes of failures that could result.)

No damage or fractures sustained to the device during testing.

## TEST CONCLUSIONS

The results gained in this report have been assessed from the full test performed on the PR-7200 touch bar in test report WIL 398607-2. It is our opinion that as the PR-7200 touch bar has successfully passed in single door application, the results will be similar in double door plain meeting styles.

## CLAUSE 8 MARKING

### 8.1 All devices must have the following markings:-

- A) CE Marking Symbol CE
- B) Identification number of the certification body 1121
- C) Producers Name or Trademark AXIM
- D) Number & year of this European Standard BS EN 1125 : 2008
- E) Classification Code Satisfactory

Category of use	Durability	Door mass	Fire resistance	Safety	Corrosion resistance	Security	Projection of device	Type	Field of Door
3	6 or 7	5 or 6	0 / A / B	1	3 or 4	2	1 or 2	A or B	A,B,C or D
3	7	6	0	1	3	2	2	B	A?

- F) Month & Year of Manufacture (May be in coded form) Evidence Supplied

### 8.2 All packaging shall clearly state on the outside label:-

- A) Producers Name or Trademark Axim
- B) Number and Year of this European Standard BS EN 1125 : 2008
- C) Producers product reference number 7200

### 8.3 All Installation Instructions shall clearly state the following:-

- A) CE marking symbol or logo CE
- B) Identification number of the certification body 1121
- C) Registered address of the producer Unit 5, The Willow Centre, 1 Willow Lane, Mitcham, Surrey, CR4 4NX
- D) Last two digits of year in which marking was applied 18
- E) Number of EC certificate of conformity AAA017
- F) Reference to this European Standard BS EN 1125 : 2008
- G) Classification code 3 / 7 / 6 / 0 / 1 / 3 / 2 / 2 / B / A
- H) Category of projection Category 2
- I) Field of door application Category A
- J) Door dimension suitability 2520mm x 1320mm / 200Kg
- K) Producers product reference number 7200
- L) Approved components for use on escape door Satisfactory

#### 4.3 Requirements for product information

Clause No	SPECIFICATION	RESULTS OR DETAILS	Pass or Fail
4.3	Intended Use	Suitable for use on single outward opening doors and outward opening double door plain meeting style panic route doors	Pass
4.3	Door mass Door Dimensions	2520mm x 1320mm / 200Kg	Pass
4.3	Maximum door distortion to enable safe exit at all times	Maximum door distortion of 5mm allowed	Pass
4.3	Minimum resistance of the door leaf against a pulling force of the recommended fixing screws	Maximum of 1000N resistance of pulling against fixing screws	Pass
4.3	Field of door application	Category A	Pass
4.3	Fire / Smoke door suitability	Not Suitable for use on fire doors	Pass
4.3	Fire resistance time for each door configuration. (30/90 Mins for single or double doors)	---	N/a
4.3	Type of door ( Timber, Steel, Others)	---	N/a
4.3	Reinforcements supplied with the exit device if any.	---	N/a
4.3	Any additional information such as fire test report or web site where to find updated information.	<a href="http://www.axim.co.uk">www.axim.co.uk</a>	Pass
4.3	The following warning in a prominent position:	"The safety features of this product are essential to its compliance with EN 1125. No modification of any kind, other than those described in these instructions, is permitted."	Pass
4.3	Maintenance instructions to ensure that the device continues to comply with the standard for a reasonably working life.	Satisfactory	Pass
4.3	List of all elements that are tested and approved for use with this emergency exit device and which may be packaged separately.	Satisfactory	Pass

## ANNEX A

### Installation and Fitting Instructions

A.1 The producer shall specify the appropriate fixing arrangement for the door types for which the exit device is designed.

Pass .....

A.2 Before fitting an exit device to a door, the door should be checked to ensure correct hanging and freedom from blinding.

Pass .....

It is not recommended, for example, that exit devices be fitted to hollow core doors unless specially designed by the producer for this type of door.

Pass .....

It is recommended to verify that the door construction allows the use of the device, i.e. to verify that offset hinges and engaging leaves allow both leaves to be opened simultaneously (See A4), or to verify that the gap between door leaves does not differ from that defined by the exit device producer, or to verify that the opening elements do not interfere, etc.

Pass .....

A.3 Before fitting an panic exit device to a fire/smoke resisting door, the fire certification of the fire door assembly on which the exit device has been tested to prove suitability for use on a fire door should be examined. It is of utmost importance that an exit device is not used on a fire door assembly of a greater fire resistance time than approved for. See Annex B.

Pass .....

A.4 Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly, do not inhibit the correct operation of the panic exit device.

Pass .....

A.5 On double doorsets with rebated meeting stiles and where both leaves are fitted with panic exit devices, it is essential to check that either leaf will open when its panic exit device is activated and also that both leaves will open freely when both panic exit devices are operated simultaneously.

Pass .....

A.6 Where panic exit devices are manufactured in more than one size, it is important that the correct size is selected.

Pass .....

A.7 Category 2 (Standard projection) panic exit devices should be used in situations where there is restricted width for escape, or where the doors to be fitted with the panic exit devices are not able to open beyond 90°

Pass .....

A.8 Where a panic exit device is designed to be fitted to a glazed door, it is essential that the glazing is tempered or laminated glass.

Pass .....

A.9 Different fixing can be necessary for fitting panic exit devices to wood, metal or frameless glass doors. For more secure fixing, male and female through-door bolts, reinforcement and rivets can be used.

Pass .....

A.10 Panic exit devices are not intended for use on double action (double swing) doors unless specifically designed by the exit device producer.

Pass .....

A.11 The fixing instructions should be carefully followed during installation. These instructions and any maintenance instructions should be passed on by the installer to the user. See Annex C

Pass .....

A.12 The horizontal bar should normally be installed at a height of between 900mm and 1100mm from the finished floor level, when the door is in the secured position. Where it is known that the majority of the users of the premises will be young children, consideration should be given to reducing the height of the operating bar.

Pass .....

A.13 The horizontal bar should be installed so as to provide the maximum effective length.

Pass .....

A.14 The bolt heads and keepers should be fitted to provide secure engagement. Care should be taken to ensure that no projection of the bolt heads, when in the withdrawn position, can prevent the door swinging freely.

Pass .....

A.15 Where panic exit devices are to be fitted to double door sets with rebated meeting stiles and self closing devices, a door coordinator device in accordance with EN 1158 (See Bibliography) should be fitted to ensure the correct closing sequence of the doors. This recommendation is particularly important with regard to smoke/fire-resisting door assemblies.

Pass .....

A.16 No devices for securing the door in the closed position should be fitted other than specified in this European Standard. This does not preclude the installation of self-closing devices.

Pass .....

A.17 If a door closing device is to be used to return the door to the closed position, care should be taken not to impair the use of the doorway by the young, elderly and infirm.

Pass .....

A.18 Any keepers or protection plates provided should be fitted in order to ensure compliance with this European Standard.

Pass .....

A.19 A sign which reads "Push Bar to open" or a pictogram should be provided on the inside face of the door immediately above the horizontal bar, or on the bar if it has a sufficient flat face to take the size of lettering required. The surface area of the pictogram should be not less than 8000mm<sup>2</sup> and its colours should be white on a green background. It should be designed such that the arrow points to the operating element, when installed.

Pass .....



## ANNEX C

### Maintenance Instructions

The following information shall accompany the product :-

A) Inspect and operate the emergency exit device to ensure that all components are in a satisfactory working condition. Using a force gauge, measure and record the operating forces to release the exit device.

Pass .....

B) Ensure the keeper(s) is (are) free from obstruction.

Pass .....

C) Check that the emergency exit device is lubricated in accordance with the producer's instructions.

Pass .....

D) Check that no additional locking devices have been added to the door since its original installation.

Pass .....

E) Check periodically that all components of the system are still correct in accordance with the list of approved components originally supplied with the system.

Pass .....

F) Check periodically that the operating element is correctly tightened and, using a force gauge, measure the operating forces to release the exit device. Check that the operating forces have not changed significantly from the operating forces recorded when originally installed.

Pass .....

--- END OF REPORT ---

## Revision History

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

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