

Certificate of Product Approval

Certificate Number: 234d Part 2

Issue: 07

Sunray Engineering Limited

Kingsnorth Industrial Estate
Wotton Road
Ashford
Kent
TN23 6LL

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

Products

ExecDoor 2

hinged security doorsets

Standard

LPS 1175: Issue 7

Requirements and testing procedures for the LPCB approval and listing of intruder resistant building components, strongpoints, security enclosures and free-standing barriers

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Paul Dillon
Verifier

23 July 2018
Date of Issue

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Hinged Security Doorsets

Product Name	Type	Minimum Structural Opening Height (m)	Maximum Structural Opening Height (m)	Minimum Structural Opening Width (m)	Maximum Structural Opening Width (m)	Security Rating	LPCB Ref. No.
ExecDoor 2	Single leaf, outward opening hinged security doorset	1.8	2.2	0.75	1.3	2	234d/03
	Single leaf, outward opening hinged security doorset incorporating overpanels ¹	2.29	3.21	0.75	1.3		
	Double leaf, outward opening hinged security doorset ²	1.8	2.2	1.5	2.5		
	Double leaf, outward opening hinged security doorset incorporating overpanels ^{1,2}	2.29	3.21	1.5	2.2		

Approved Locking Configurations

Product Name	Type	Compatible Locking Systems	
		Active Leaf	Passive Leaf
ExecDoor 2	Single leaf, outward opening hinged security doorset	1 to 27	N/A
	Single leaf, outward opening hinged security doorset incorporating overpanels	1 to 4 and 9 to 27	N/A
	Double leaf, outward opening hinged security doorset	1 to 27	8 ³ or 28
	Double leaf, outward opening hinged security doorset incorporating overpanels	1 to 4 and 9 to 27	28

Compatible Locking Systems

Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
1	Assa	765	Single-point mortice sash lock	Key and handle	Key and handle	AI
2	Assa	765	Single-point mortice sash lock	Key and handle	Thumbturn and handle	AH
3	Assa	2788	Single-point mortice dead lock	Key	Key	AI
4	Assa	2788	Single-point mortice dead lock	Key	Thumbturn	AH

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
5	Exidor	803	Three-point panic exit locking system ⁴	None	Panic bar	N/A
6	Exidor	803 with 809	Three-point panic exit locking system with external access device ⁴	Key and turn knob (Exidor 809)	Panic bar	AV
7	Exidor	803 with 810	Three-point panic exit locking system with external access device ⁴	Key and handle (Exidor 810)	Panic bar	AV
8	Exidor	802	Two-point panic exit locking system	None	Panic bar	N/A
9	Surelock McGill Limited	Stirling ST101	Single-point locking system	None	Key and lever handle	N/A
10	Surelock McGill Limited	Stirling ST103 ⁵	Single-point locking system	None	Thumbturn and handle	N/A
11	Surelock McGill Limited	Stirling ST104	Single-point emergency exit locking system ⁴	None	Panic bar	N/A
12	Surelock McGill Limited	Stirling ST105	Single-point emergency exit locking system	None	Handle	N/A
13	Surelock McGill Limited	Stirling ST105-H3	Single-point emergency exit locking system	None	Push pad	N/A
14	Surelock McGill Limited	Stirling ST111-P ⁶	Single-point locking system	Key and lever handle	Key and lever handle	A to AH, AJ to AU
15	Surelock McGill Limited	Stirling ST113-P ^{5,6}	Single-point locking system	Key and lever handle	Thumbturn and lever handle	A to AH, AJ to AU
16	Surelock McGill Limited	Stirling ST114-P ⁶	Single-point emergency exit locking system ⁴	Key and lever handle	Panic bar	A to AH, AJ to AU
17	Surelock McGill Limited	Stirling ST115-P ⁶	Single-point emergency exit locking system	Key and lever handle	Lever handle	A to AH, AJ to AU
18	Surelock McGill Limited	Stirling ST115-P-H3 ⁶	Single-point emergency exit locking system	Key and lever handle	Push pad	A to AH, AJ to AU
19	Surelock McGill Limited	Stirling ST121-H1	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	None	Access control and handle with key override	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
20	Surelock McGill Limited	Stirling ST121-P-K13 ⁶	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	Handle plus external access control entry device with key override	Access control and handle with key override	A to AH, AJ to AU
21	Surelock McGill Limited	Stirling ST122-H1	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	None	Access control and handle	N/A
22	Surelock McGill Limited	Stirling ST122-P-K13 ⁶	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	Handle plus external access control entry device with key override	Access control and handle	A to AH, AJ to AU
23	Surelock McGill Limited	Stirling ST123-H1 ⁵	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	None	Access control and handle with thumbturn override	N/A
24	Surelock McGill Limited	Stirling ST123-P-K13 ^{5,6}	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	A to AH, AJ to AU
25	Surelock McGill Limited	Stirling ST124-P-K13 ⁶	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ^{4,7}	Handle plus external access control entry device with key override	Panic bar	A to AH, AJ to AU
26	Surelock McGill Limited	Stirling ST125-P-K13 ⁶	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	Handle plus external access control entry device with key override	Handle	A to AH, AJ to AU
27	Surelock McGill Limited	Stirling ST125-P-H3-K13 ⁶	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁷	Handle plus external access control entry device with key override	Push pad	A to AH, AJ to AU
28	Exidor	HS923/10	Tower bolt	None	Tower bolt	N/A

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Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ⁸
A	Abloy	Disclock Pro CY403-DP	Rim	+
B	Abloy	Disclock Pro CY405-DP	Rim	+
C	Abloy	Novel CY403-VL	Rim	+
D	Abloy	Novel CY405-VL	Rim	+
E	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic) ⁹	+
F	Abloy	Protec CY403-PT	Rim	+
G	Abloy	Protec CY405-PT	Rim	+
H	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic) ⁹	+
I	Abloy	Protec2 CY403-TT	Rim	+
J	Abloy	Protec2 CY405-TT	Rim	+
K	Assa	4857	Rim	
L	Assa	C5857	Rim	+
M	Kaba	K20	Rim	
N	Kaba	Quattro PluS	Rim	+
O	KESO	4000S	Rim	+
P	Medeco	M3ARX	Rim	+
Q	Abloy	Disklock Pro CY201-DP	Scandinavian Oval	+
R	Abloy	Novel CY201-VL	Scandinavian Oval	+
S	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval (Mechatronic) ⁹	+
T	Abloy	Protec CY201-PT	Scandinavian Oval	+
U	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval (Mechatronic) ⁹	+
V	Abloy	Protec2 CY201-TT	Scandinavian Oval	+
W	Access2	Tigris Omega	Scandinavian Oval	+
X	Access2	Tigris Plus	Scandinavian Oval	
Y	Access2	Tigris Premier	Scandinavian Oval	+
Z	Access2	Tigris Premier2	Scandinavian Oval	+
AA	Access2	Tigris Premier3	Scandinavian Oval	+
AB	ASSA	4801	Scandinavian Oval	
AC	ASSA	4807	Scandinavian Oval	
AD	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic) ⁹	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ⁸
AE	ASSA	4401dp	Scandinavian Oval	+
AF	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic) ⁹	+
AG	ASSA	4407dp	Scandinavian Oval	+
AH	Assa	C5801	Scandinavian Oval	+
AI	Assa	C5802	Scandinavian Oval	+
AJ	ASSA	C5807	Scandinavian Oval	+
AK	ASSA	Twin 7601	Scandinavian Oval	
AL	ASSA	Twin 7607	Scandinavian Oval	
AM	iLOQ	C10S.1	Scandinavian Oval (Mechatronic) ⁹	+
AN	Kaba	experT	Scandinavian Oval	+
AO	Kaba	Gege pExtra	Scandinavian Oval	+
AP	Kaba	Gege RAM	Scandinavian Oval	+
AQ	Kaba	K20	Scandinavian Oval	
AR	Kaba	Quattro PluS	Scandinavian Oval	+
AS	KESO	4000S	Scandinavian Oval	+
AT	Locken	CL-PL2WR	Scandinavian Oval (Mechatronic) ⁹	+
AU	Medeco	M3-ARX	Scandinavian Oval	+
AV	Exidor	P3011	Single europrofile cylinder	

Optional Design Features/Accessories

Accessory	Description	Compatible Locking Systems
Vistamatic Chieftain vision panel ^{10,11}	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	1, 3, 9, 14 and 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	1, 3, 9, 14 and 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	1, 3, 9, 14 and 28
Vistamatic Sherman vision panel ^{10,11}	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28

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Accessory	Description	Compatible Locking Systems
Tyneside AB26 vision panel ¹⁰	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
Louvre vent ¹⁰	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the top half of the leaf.	1 to 28
	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	1 to 28
	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the top and bottom halves of the leaf.	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
Combinations of vision panels and louvre vents ¹⁰	Vistamatic Chieftain vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	1, 3, 9, 14 and 28
	Vistamatic Sherman vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
	Tyneside AB26 vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28

Notes:

1. The ExecDoor 2 double leaf doorsets may incorporate leafs of equal or unequal width. Leafs of unequal width will comprise of an active leaf that is twice as wide as the passive leaf. The maximum leaf width is 1.35 m and the minimum leaf width is 0.5 m.
2. The maximum overpanel height from the centre of the transom to the top of the frame is 1 m. The minimum overpanel height from the centre of the transom to the top of the frame is 0.49 m. The maximum and minimum heights of the doorset element, up to the centre of the transom, are the same as the approved doorsets that do not incorporate overpanels. The overpanel may be fixed, removable or hinged.
3. This locking system may only be used on the passive leaf if locking systems 5, 6 and 7 are used on the active leaf.
4. Locking systems 5, 6, 7, 11, 16 and 25 may not comply with fire escape regulations relating to potential panic situations if fitted to double leaf doorsets. This is because activation of the device on one leaf may not necessarily release the other leaf and in some cases may not release the leaf to which it is fitted.
5. The K4 break dome can be used without undermining the security rating afforded by the doorset.
6. The 'P' option code relates to the use of the P20 or P21 options, i.e. the GSS2 cylinder guards for Rim or Scandinavian oval cylinders.

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7. Fail secure version only. The resistance of the access control locks to "non-mechanical" attack has not been assessed as it is outside the scope of LPS 1175. Likewise, the approval does not cover possible effects of any susceptibilities relating to the functionality and performance of any access control equipment that may be used to operate these locking systems. This is because the scope of access control devices and system configurations that may be used with these locking systems is "infinite". It is therefore recommended that Sunray Engineering satisfy themselves that the components used are either resistant to mechanical and other forms of tampering/abuse, or that they are suitably protected from such tampering/abuse and are resistant to any environmental conditions/interference that may cause the locking system to disengage.
8. A 'Plus' rating demonstrates the cylinder meets the requirements defined in Annex A of BS 3621:2007 or manipulation resistance class '1' defined in LPS 1242: Issue 2.
9. The resistance of the mechatronic cylinders to "non-mechanical" attack has not been assessed as it is outside the scope of LPS 1175. Likewise, the approval does not cover possible effects of any susceptibilities relating to the functionality and performance of ancillary equipment that may be used in conjunction with those cylinders. It is therefore recommended that specifiers satisfy themselves that the components used are either resistant to electronic methods of attack, or that they are suitably protected from such tampering/abuse and are resistant to any environmental conditions/interference that may cause the locking system to disengage.
10. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.
11. The Vistamatic vision panels incorporate obscurable panels controlled by a handle on the protected side of the doorset.
12. This approval only covers the ExecDoor 2 doorsets when supplied with the 'h' type threshold.
13. This approval covers the ExecDoor 2 doorsets with bolted or pre-fabricated frame options.

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