

Certificate of Product Approval

Certificate Number: 234d Part 4

Issue: 14

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:

Product

ExcluDoor 4 Mk2
ExcluDoor 4 Mk2 F.R.
ExcluDoor 4 Mk3
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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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.
ExcluDoor 4 Mk2	Single leaf, outward opening hinged security doorset	1.0 ¹	3.075 ²	0.75	1.24	4 ³	234d/05
	Single leaf, inward opening hinged security doorset	1.8	3.075	0.75	1.24	4	
	Double leaf, outward opening hinged security doorset ⁴	1.8	3.075 ²	1.24	2.4	4 ³	
	Double leaf, inward opening hinged security doorset ⁴	1.8	3.075	1.24	2.4	4 ³	
ExcluDoor 4 Mk2 F.R.	Single leaf, outward opening hinged security doorset	1.8	2.75 ⁵	0.75	1.24	4 ³	234d/07
	Double leaf, outward opening hinged security doorset ⁴	1.8	2.75 ⁵	1.24	2.4	4 ³	
ExcluDoor 4 Mk3	Single leaf, outward opening hinged security doorset	1.8	2.4	0.75	1.24	4 ⁶	234d/11
	Double leaf, outward opening hinged security doorset ⁷	1.8	2.4	1.24	2.4	4 ⁶	

Approved Locking Configurations

LPCB Ref. No.	Product Name	Type	Compatible Locking Systems	
			Active Leaf	Passive Leaf
234d/05	ExcluDoor 4 Mk2	Single leaf, outward opening hinged security doorset	3 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329 ^{1,2}	N/A
	ExcluDoor 4 Mk2	Single leaf, inward opening hinged security doorset	261 to 268, 277 to 284, 298 to 310	N/A
	ExcluDoor 4 Mk2	Double leaf, outward opening hinged security doorset	3 to 24, 44 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329 ²	1 or 2
	ExcluDoor 4 Mk2	Double leaf, inward opening hinged security doorset	261 to 268, 277 to 284, 298 to 310	1 or 2

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LPCB Ref. No.	Product Name	Type	Compatible Locking Systems	
			Active Leaf	Passive Leaf
234d/07	ExcluDoor 4 Mk2 F.R.	Single leaf, outward opening hinged security doorset	3 to 24, 44 to 65 ⁵	N/A
	ExcluDoor 4 Mk2 F.R.	Double leaf, outward opening hinged security doorset	3 to 24, 44 to 65 ⁵	1 or 2
234d/11	ExcluDoor 4 Mk3	Single leaf, outward opening hinged security doorset	66 to 111	N/A
	ExcluDoor 4 Mk3	Double leaf, outward opening hinged security doorset	66 to 111	1 or 2

Compatible Locking Systems

Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
1	Sunray Engineering Limited	Two Sunray surface mounted drop bolts	Surface mounted drop bolt	None	Surface mounted drop bolt	N/A
2	Sunray Engineering Limited	Two Sunray internal drop bolts	Internal drop bolt	None	Internal drop bolt	N/A
3	Surelock McGill Limited	Slimline SL301	Three-point locking system	None	Key and handle	N/A
4	Surelock McGill Limited	Slimline SL301-H6-K0	Three-point locking system	None	Full width push pad deadlocked by a key ¹²	N/A
5	Surelock McGill Limited	Slimline SL303 ⁹	Three-point locking system	None	Thumb turn and handle	N/A
6	Surelock McGill Limited	Slimline SL303-H6-K0 ⁹	Three-point locking system	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
7	Surelock McGill Limited	Slimline SL304	Three-point emergency exit locking system	None	Full width push bar protected by a shrouding device ¹⁰	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
8	Surelock McGill Limited	Slimline SL305	Three-point emergency exit locking system	None	Handle	N/A
9	Surelock McGill Limited	Slimline SL305-H3	Three-point emergency exit locking system	None	Push pad protected by a shrouding device ¹⁰	N/A
10	Surelock McGill Limited	Slimline SL311-P5 ⁸	Three-point locking system	Key and handle	Key and handle	Z to AG
11	Surelock McGill Limited	Slimline SL311-P5 ⁸ -H6-K0	Three-point locking system	Key and handle	Full width push pad deadlocked by a key ¹²	Z to AG
12	Surelock McGill Limited	Slimline SL313-P5 ^{8,9}	Three-point locking system	Key and handle	Thumb turn and handle	Z to AG
13	Surelock McGill Limited	Slimline SL313-P5 ⁸ -H6-K0 ⁹	Three-point locking system	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Z to AG
14	Surelock McGill Limited	Slimline SL314-P5 ⁸	Three-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ¹⁰	Z to AG
15	Surelock McGill Limited	Slimline SL315-P5 ⁸	Three-point emergency exit locking system	Key and handle	Handle	Z to AG
16	Surelock McGill Limited	Slimline SL315-P5 ⁸ -H3	Three-point emergency exit locking system	Key and handle	Push pad protected by a shrouding device ¹⁰	Z to AG
17	Surelock McGill Limited	Slimline SL321-P5 ⁸ -K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	Z to AG

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				External Face	Internal Face	
18	Surelock McGill Limited	Slimline SL321-P5 ⁸ -H6-K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Full width push pad deadlocked by a key/access control system ¹²	Z to AG
19	Surelock McGill Limited	Slimline SL322-P5 ⁸ -K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle	Z to AG
20	Surelock McGill Limited	Slimline SL323-P5 ⁸ -K2 ⁹	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	Z to AG
21	Surelock McGill Limited	Slimline SL323-P5 ⁸ -H6-K2 ⁹	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Full width push pad deadlocked by a thumbturn / access control system ¹²	Z to AG
22	Surelock McGill Limited	Slimline SL324-P5 ⁸ -K2	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ¹⁰	Z to AG
23	Surelock McGill Limited	Slimline SL325-P5 ⁸ -K2	Three-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Z to AG
24	Surelock McGill Limited	Slimline-SL325-P5 ⁸ -H3-K2	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Push pad protected by a shrouding device ¹⁰	Z to AG
25	Surelock McGill Limited	Stirling ST101	Single-point locking system	None	Key and handle	N/A

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				External Face	Internal Face	
26	Surelock McGill Limited	Stirling ST103 ⁹	Single-point locking system	None	Thumb turn and handle	N/A
27	Surelock McGill Limited	Stirling ST104	Single-point emergency exit locking system	None	Full width push bar protected by a shrouding device ¹⁰	N/A
28	Surelock McGill Limited	Stirling ST105	Single-point emergency exit locking system	None	Handle	N/A
29	Surelock McGill Limited	Stirling ST105-H3	Single-point emergency exit locking system	None	Push pad protected by a shrouding device ¹⁰	N/A
30	Surelock McGill Limited	Stirling ST111-P5 ⁸	Single-point locking system	Key and handle	Key and handle	Z to AG
31	Surelock McGill Limited	Stirling ST113-P5 ^{8,9}	Single-point locking system	Key and handle	Thumb turn and handle	Z to AG
32	Surelock McGill Limited	Stirling ST114-P5 ⁸	Single-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ¹⁰	Z to AG
33	Surelock McGill Limited	Stirling ST115-P5 ⁸	Single-point emergency exit locking system	Key and handle	Handle	Z to AG
34	Surelock McGill Limited	Stirling ST115-P5 ⁸ -H3	Single-point emergency exit locking system	Key and handle	Push pad protected by a shrouding device ¹⁰	Z to AG
35	Surelock McGill Limited	Stirling ST121-H1	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle with key override	N/A

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				External Face	Internal Face	
36	Surelock McGill Limited	Stirling ST121-P5 ⁸ -K13	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	Z to AG
37	Surelock McGill Limited	Stirling ST122-H1	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle	N/A
38	Surelock McGill Limited	Stirling ST122-P5 ⁸ -K13	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle	Z to AG
39	Surelock McGill Limited	Stirling ST123-H1 ⁹	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle with thumbturn override	N/A
40	Surelock McGill Limited	Stirling ST123-P5 ⁸ -K13 ⁹	Single-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	Z to AG
41	Surelock McGill Limited	Stirling ST124-P5 ⁸ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ¹⁰	Z to AG
42	Surelock McGill Limited	Stirling ST125-P5 ⁸ -K13	Single-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Z to AG

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				External Face	Internal Face	
43	Surelock McGill Limited	Stirling ST125-P5 ⁸ -H3-K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Push pad protected by a shrouding device ¹⁰	Z to AG
44	Surelock McGill Limited	Slimline SL301-U1	Four-point locking system	None	Key and handle	N/A
45	Surelock McGill Limited	Slimline SL301-H6-K0-U1	Four-point locking system	None	Full width push pad deadlocked by a key ¹²	N/A
46	Surelock McGill Limited	Slimline SL303-U1 ⁹	Four-point locking system	None	Thumb turn and handle	N/A
47	Surelock McGill Limited	Slimline SL303-H6-K0-U1 ⁹	Four-point locking system	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
48	Surelock McGill Limited	Slimline SL304-U1	Four-point emergency exit locking system	None	Full width push bar protected by a shrouding device ¹⁰	N/A
49	Surelock McGill Limited	Slimline SL305-U1	Four-point emergency exit locking system	None	Handle	N/A
50	Surelock McGill Limited	Slimline SL305-H3-U1	Four-point emergency exit locking system	None	Push pad protected by a shrouding device ¹⁰	N/A
51	Surelock McGill Limited	Slimline SL311-P5 ⁸ -U1	Four-point locking system	Key and handle	Key and handle	Z to AG
52	Surelock McGill Limited	Slimline SL311-P5 ⁸ -H6-K0-U1	Four-point locking system	Key and handle	Full width push pad deadlocked by a key ¹²	Z to AG
53	Surelock McGill Limited	Slimline SL313-P5 ⁸ -U1 ⁹	Four-point locking system	Key and handle	Thumb turn and handle	Z to AG

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				External Face	Internal Face	
54	Surelock McGill Limited	Slimline SL313-P5 ⁸ -H6-K0-U1 ⁹	Four-point locking system	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Z to AG
55	Surelock McGill Limited	Slimline SL314-P5 ⁸ -U1	Four-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ¹⁰	Z to AG
56	Surelock McGill Limited	Slimline SL315-P5 ⁸ -U1	Four-point emergency exit locking system	Key and handle	Handle	Z to AG
57	Surelock McGill Limited	Slimline SL315-P5 ⁸ -H3-U1	Four-point emergency exit locking system	Key and handle	Push pad protected by a shrouding device ¹⁰	Z to AG
58	Surelock McGill Limited	Slimline SL321-P5 ⁸ -K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	Z to AG
59	Surelock McGill Limited	Slimline SL321-P5 ⁸ -H6-K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Full width push pad deadlocked by a key/access control system ¹²	Z to AG
60	Surelock McGill Limited	Slimline SL322-P5 ⁸ -K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle	Z to AG
61	Surelock McGill Limited	Slimline SL323-P5 ⁸ -K2-U1 ⁹	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	Z to AG
62	Surelock McGill Limited	Slimline SL323-P5 ⁸ -H6-K2-U1 ⁹	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Full width push pad deadlocked by a thumbturn / access control system ¹²	Z to AG

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				External Face	Internal Face	
63	Surelock McGill Limited	Slimline SL324-P5 ⁸ -K2-U1	Four-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ¹⁰	Z to AG
64	Surelock McGill Limited	Slimline SL325-P5 ⁸ -K2-U1	Four-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Z to AG
65	Surelock McGill Limited	Slimline-SL325-P5 ⁸ -H3-K2-U1	Four-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Push pad protected by a shrouding device ¹⁰	Z to AG
66	Surelock McGill Limited	Slimline SL305	Three-point emergency exit locking system	None	Handle	N/A
67	Surelock McGill Limited	Slimline SL303 ⁹	Three-point locking system	None	Thumb turn and handle	N/A
68	Surelock McGill Limited	Slimline SL301	Three-point locking system	None	Key and handle	N/A
69	Surelock McGill Limited	Slimline SL315-P6	Three-point emergency exit locking system	Key and handle	Handle	Z to AG
70	Surelock McGill Limited	Slimline SL313-P6 ⁹	Three-point locking system	Key and handle	Thumb turn and handle	Z to AG
71	Surelock McGill Limited	Slimline SL311-P6	Three-point locking system	Key and handle	Key and handle	Z to AG

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				External Face	Internal Face	
72	Surelock McGill Limited	Slimline SL325-P6-K2	Three-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Z to AG
73	Surelock McGill Limited	Slimline SL323-P6-K2 ⁹	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	Z to AG
74	Surelock McGill Limited	Slimline SL321-P6-K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	Z to AG
75	Tindall Engineering Limited	Mico Abyrll PE3	Single-point emergency exit locking system	None	Handle	N/A
76	Tindall Engineering Limited	Mico Abyrll AD3 ⁹	Single-point locking system with automatic deadlock	None	Thumb turn and handle	N/A
77	Tindall Engineering Limited	Mico Abyrll AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
78	Tindall Engineering Limited	Mico Abyrll EPC AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
79	Tindall Engineering Limited	Mico Abyrll SATE AD3 / USCH5	Single-point emergency exit locking system with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AT
80	Tindall Engineering Limited	Mico Abyrll EPC SATE AD3 / USCH5	Single-point emergency exit locking system with automatic deadlock	Key and handle	Handle	AU to BH
81	Tindall Engineering Limited	Mico Abyrll AD3 / USCH5 ⁹	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	Y, AB, AC, AF to AT

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				External Face	Internal Face	
82	Tindall Engineering Limited	Mico Abyrll AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
83	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	L to X
84	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Key and handle	A to K
85	Tindall Engineering Limited	Mico Abyrll MD3 ⁹	Single-point locking system with manual deadlock	None	Thumb turn and handle	N/A
86	Tindall Engineering Limited	Mico Abyrll MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
87	Tindall Engineering Limited	Mico Abyrll EPC MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
88	Tindall Engineering Limited	Mico Abyrll MD3 / USCH5 ⁹	Single-point locking system with manual deadlock	Key and handle	Thumb turn and handle	Y, AB, AC, AF to AT
89	Tindall Engineering Limited	Mico Abyrll MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
90	Tindall Engineering Limited	Mico Abyrll EPC MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Thumb turn and handle	L to X
91	Tindall Engineering Limited	Mico Abyrll EPC MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Key and handle	A to K
92	Tindall Engineering Limited	Mico Abyrll MD2 ⁹	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
93	Tindall Engineering Limited	Mico Abyrll MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ¹²	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
94	Tindall Engineering Limited	Mico Abyrll EPC MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ¹²	N/A
95	Tindall Engineering Limited	Mico Abyrll MD2 / USCH5 ⁹	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
96	Tindall Engineering Limited	Mico Abyrll MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
97	Tindall Engineering Limited	Mico Abyrll EPC MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	L to X
98	Tindall Engineering Limited	Mico Abyrll EPC MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	A to K
99	Tindall Engineering Limited	Mico Abyrll MD1 ⁹	Single-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A
100	Tindall Engineering Limited	Mico Abyrll MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key ¹²	N/A
101	Tindall Engineering Limited	Mico Abyrll EPC MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key ¹²	N/A
102	Tindall Engineering Limited	Mico Abyrll MD1 / USCH5 ⁹	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
103	Tindall Engineering Limited	Mico Abyrll MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
104	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	L to X
105	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	A to K

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
106	Tindall Engineering Limited	Mico Abyrll SATE EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AT
107	Tindall Engineering Limited	Mico Abyrll EPC SATE EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	AU to BH
108	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH5	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	L to X
109	Tindall Engineering Limited	Mico Abyrll EM3 / USCH5 ⁹	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Thumb turn / access control and handle	Y, AB, AC, AF to AT
110	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH5	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	A to K
111	Tindall Engineering Limited	Mico Abyrll EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Key/access control and handle	Y, AB, AC, AF to AT

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
112	Tindall Engineering Limited	Mico 942-3L	Three-point emergency exit locking system	None	Handle	N/A
113	Tindall Engineering Limited	Mico 942-3 EM SEC ⁹	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and full width push plate with thumbturn override ¹²	N/A
114	Tindall Engineering Limited	Mico 942-3 EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with key override ¹²	Y, AB, AC, AF to AT
115	Tindall Engineering Limited	Mico 942-3 EM SEC / USCH4 ⁹	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ¹²	Y, AB, AC, AF to AT
116	Tindall Engineering Limited	Mico 942-3P EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with key override ¹²	Y, AB, AC, AF to AT
117	Tindall Engineering Limited	Mico 942-3P EM SEC / USCH4 ⁹	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ¹²	Y, AB, AC, AF to AT

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
118	Tindall Engineering Limited	Mico 942-3L EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with key override	Y, AB, AC, AF to AT
119	Tindall Engineering Limited	Mico 942-3L EM SEC / USCH4 ⁹	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Y, AB, AC, AF to AT
120	Tindall Engineering Limited	Mico 942-3L INT AD / USCH4	Three-point locking system with automatic deadlocking	Key and handle	Key and handle	Y, AB, AC, AF to AT
121	Tindall Engineering Limited	Mico 942-3L INT AD / USCH4 ⁹	Three-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AT
122	Tindall Engineering Limited	Mico 942-3L INT AD	Three-point locking system with automatic deadlocking	None	Key and handle	N/A
123	Tindall Engineering Limited	Mico 942-3L INT AD ⁹	Three-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
124	Tindall Engineering Limited	Mico 942-3 INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
125	Tindall Engineering Limited	Mico 942-3 INT MD / USCH4 ⁹	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
126	Tindall Engineering Limited	Mico 942-3 INT MD	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ¹²	N/A
127	Tindall Engineering Limited	Mico 942-3 INT MD ⁹	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
128	Tindall Engineering Limited	Mico 942-3P INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
129	Tindall Engineering Limited	Mico 942-3P INT MD / USCH4 ⁹	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
130	Tindall Engineering Limited	Mico 942-3P INT MD	Three-point locking system with manual deadlock	None	Push pad deadlocked by a key ¹²	N/A
131	Tindall Engineering Limited	Mico 942-3P INT MD ⁹	Three-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A
132	Tindall Engineering Limited	Mico 942-3L INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
133	Tindall Engineering Limited	Mico 942-3L INT MD / USCH4 ⁹	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AT
134	Tindall Engineering Limited	Mico 942-3L INT MD	Three-point locking system with manual deadlock	None	Key and handle	N/A
135	Tindall Engineering Limited	Mico 942-3L INT MD ⁸	Three-point locking system with manual deadlock	None	Thumbturn and handle	N/A
136	Tindall Engineering Limited	Mico 942-3L SATE EM SEC / USCH4	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AT
137	Tindall Engineering Limited	Mico 942-3L SATE AD / USCH4	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AT
138	Tindall Engineering Limited	Mico 942-3L SATE MD / USCH4	Three-point emergency exit device with manual deadlock	Key and handle	Handle	Y, AB, AC, AF to AT

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
139	Tindall Engineering Limited	Mico 942-3 EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with key override ¹²	A to K
140	Tindall Engineering Limited	Mico 942-3 EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ¹²	L to X
141	Tindall Engineering Limited	Mico 942-3P EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with key override ¹²	A to K
142	Tindall Engineering Limited	Mico 942-3P EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ¹²	L to X
143	Tindall Engineering Limited	Mico 942-3L EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with key override	A to K
144	Tindall Engineering Limited	Mico 942-3L EPC EM SEC / USCH4	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	L to X

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
145	Tindall Engineering Limited	Mico 942-3L EPC INT AD / USCH4	Three-point locking system with automatic deadlocking	Key and handle	Key and handle	A to K
146	Tindall Engineering Limited	Mico 942-3L EPC INT AD / USCH4	Three-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	L to X
147	Tindall Engineering Limited	Mico 942-3L EPC INT AD	Three-point locking system with automatic deadlocking	None	Key and handle	N/A
148	Tindall Engineering Limited	Mico 942-3L EPC INT AD	Three-point locking system with automatic deadlocking	None	Thumbturn and handle	N/A
149	Tindall Engineering Limited	Mico 942-3 EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	A to K
150	Tindall Engineering Limited	Mico 942-3 EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	L to X
151	Tindall Engineering Limited	Mico 942-3 EPC INT MD	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ¹²	N/A
152	Tindall Engineering Limited	Mico 942-3 EPC INT MD	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
153	Tindall Engineering Limited	Mico 942-3P EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	A to K
154	Tindall Engineering Limited	Mico 942-3P EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	L to X
155	Tindall Engineering Limited	Mico 942-3P EPC INT MD	Three-point locking system with manual deadlock	None	Push pad deadlocked by a key ¹²	N/A
156	Tindall Engineering Limited	Mico 942-3P EPC INT MD	Three-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A

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				External Face	Internal Face	
157	Tindall Engineering Limited	Mico 942-3L EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Key and handle	A to K
158	Tindall Engineering Limited	Mico 942-3L EPC INT MD / USCH4	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	L to X
159	Tindall Engineering Limited	Mico 942-3L EPC INT MD	Three-point locking system with manual deadlock	None	Key and handle ¹²	N/A
160	Tindall Engineering Limited	Mico 942-3L EPC INT MD	Three-point locking system with manual deadlock	None	Thumbturn and handle ¹²	N/A
161	Tindall Engineering Limited	Mico 942-3L EPC SATE EM SEC / USCH4	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	AU to BH
162	Tindall Engineering Limited	Mico 942-3L EPC SATE AD / USCH4	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	AU to BH
163	Tindall Engineering Limited	Mico 942-3L EPC SATE MD / USCH4	Three-point emergency exit device with manual deadlock	Key and handle	Handle	AU to BH
164	Tindall Engineering Limited	Mico Abyrll EM2 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate ¹²	Y, AB, AC, AF to AT
165	Tindall Engineering Limited	Mico Abyrll EM2 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with key override ¹²	Y, AB, AC, AF to AT

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
166	Tindall Engineering Limited	Mico Abyrll EM2 / USCH4 ⁹	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ¹²	Y, AB, AC, AF to AT
167	Tindall Engineering Limited	Mico Abyrll EM1 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad ¹²	Y, AB, AC, AF to AT
168	Tindall Engineering Limited	Mico Abyrll EM1 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with key override ¹²	Y, AB, AC, AF to AT
169	Tindall Engineering Limited	Mico Abyrll EM1 / USCH4 ⁹	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ¹²	Y, AB, AC, AF to AT
170	Tindall Engineering Limited	Mico Abyrll EM3 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle	Y, AB, AC, AF to AT
171	Tindall Engineering Limited	Mico Abyrll EM3 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with key override	Y, AB, AC, AF to AT

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				External Face	Internal Face	
172	Tindall Engineering Limited	Mico Abyrll EM3 / USCH4 ⁹	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Y, AB, AC, AF to AT
173	Tindall Engineering Limited	Mico Abyrll AD2 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
174	Tindall Engineering Limited	Mico Abyrll AD2 / USCH4 ⁹	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
175	Tindall Engineering Limited	Mico Abyrll AD2	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a key ¹²	N/A
176	Tindall Engineering Limited	Mico Abyrll AD2 ⁹	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
177	Tindall Engineering Limited	Mico Abyrll AD1 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
178	Tindall Engineering Limited	Mico Abyrll AD1 / USCH4 ⁹	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
179	Tindall Engineering Limited	Mico Abyrll AD1	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a key ¹²	N/A
180	Tindall Engineering Limited	Mico Abyrll AD1 ⁹	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A
181	Tindall Engineering Limited	Mico Abyrll AD3 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
182	Tindall Engineering Limited	Mico Abyrll AD3 / USCH4 ⁹	Single-point locking system with automatic deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AT

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
183	Tindall Engineering Limited	Mico Abyrll MD2 / USCH4	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
184	Tindall Engineering Limited	Mico Abyrll MD2 / USCH4 ⁹	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
185	Tindall Engineering Limited	Mico Abyrll MD1 / USCH4	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	Y, AB, AC, AF to AT
186	Tindall Engineering Limited	Mico Abyrll MD1 / USCH4 ⁹	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	Y, AB, AC, AF to AT
187	Tindall Engineering Limited	Mico Abyrll MD3 / USCH4	Single-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
188	Tindall Engineering Limited	Mico Abyrll MD3 / USCH4 ⁹	Single-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AT
189	Tindall Engineering Limited	Mico Abyrll SATE EM3 / USCH4	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AT
190	Tindall Engineering Limited	Mico Abyrll SATE AD3 / USCH4	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AT
191	Tindall Engineering Limited	Mico Abyrll SATE MD3 / USCH4	Single-point emergency exit device with manual deadlock	Key and handle	Handle	Y, AB, AC, AF to AT
192	Tindall Engineering Limited	Mico Abyrll EPC EM2 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate ¹²	AU to BH

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
193	Tindall Engineering Limited	Mico Abyrll EPC EM2 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with key override ¹²	A to K
194	Tindall Engineering Limited	Mico Abyrll EPC EM2 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ¹²	L to X
195	Tindall Engineering Limited	Mico Abyrll EPC EM1 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad ¹²	AU to BH
196	Tindall Engineering Limited	Mico Abyrll EPC EM1 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with key override ¹²	A to K
197	Tindall Engineering Limited	Mico Abyrll EPC EM1 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ¹²	L to X
198	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle	AU to BH

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
199	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with key override	A to K
200	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH4	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	L to X
201	Tindall Engineering Limited	Mico Abyrll EPC AD2 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	A to K
202	Tindall Engineering Limited	Mico Abyrll EPC AD2 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	L to X
203	Tindall Engineering Limited	Mico Abyrll EPC AD2	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a key ¹²	N/A
204	Tindall Engineering Limited	Mico Abyrll EPC AD2	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
205	Tindall Engineering Limited	Mico Abyrll EPC AD1 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a key ¹²	A to K
206	Tindall Engineering Limited	Mico Abyrll EPC AD1 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	L to X
207	Tindall Engineering Limited	Mico Abyrll EPC AD1	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a key ¹²	N/A
208	Tindall Engineering Limited	Mico Abyrll EPC AD1	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
209	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Key and handle	A to K
210	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH4	Single-point locking system with automatic deadlock	Key and handle	Thumbturn and handle	L to X
211	Tindall Engineering Limited	Mico Abyrll EPC AD3	Single-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
212	Tindall Engineering Limited	Mico Abyrll EPC MD2 / USCH4	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ¹²	A to K
213	Tindall Engineering Limited	Mico Abyrll EPC MD2 / USCH4	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ¹²	L to X
214	Tindall Engineering Limited	Mico Abyrll EPC MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ¹²	N/A
215	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH4	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ¹²	A to K
216	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH4	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ¹²	L to X
217	Tindall Engineering Limited	Mico Abyrll EPC MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ¹²	N/A
218	Tindall Engineering Limited	Mico Abyrll EPC MD3 / USCH4	Single-point locking system with manual deadlock	Key and handle	Key and handle	A to K
219	Tindall Engineering Limited	Mico Abyrll EPC MD3 / USCH4	Single-point locking system with manual deadlock	Key and handle	Thumbturn and handle	L to X
220	Tindall Engineering Limited	Mico Abyrll EPC MD3	Single-point locking system with manual deadlock	None	Thumbturn and handle	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
221	Tindall Engineering Limited	Mico Abyrll EPC SATE EM3 / USCH4	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus external access control entry device and key override	Handle	AU to BH
222	Tindall Engineering Limited	Mico Abyrll EPC SATE AD3 / USCH4	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	AU to BH
223	Tindall Engineering Limited	Mico Abyrll EPC SATE MD3 / USCH4	Single-point emergency exit device with manual deadlock	Key and handle	Handle	AU to BH
224	Pickersgill Kaye Limited	HS131-007-1-7-#-0-04 ¹³ HS132-007-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	None	Key and handle	N/A
225	Pickersgill Kaye Limited	HS131-001-1-7-#-0-04 ¹³ HS132-001-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	None	Thumbturn and handle	N/A
226	Pickersgill Kaye Limited	HS131-002-1-7-#-0-04 ¹³ HS132-002-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	None	Thumbturn and handle with break dome	N/A
227	Pickersgill Kaye Limited	HS111-041-1-7-#-0-04 ¹³ HS112-041-1-7-#-0-04 ¹³	Single-point panic exit device with automatic deadlock	None	Full width push bar protected by a shrouding device ¹⁰	N/A
228	Pickersgill Kaye Limited	HS181-041-1-7-#-0-04 ¹³ HS182-041-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
229	Pickersgill Kaye Limited	HS181-042-1-7-#-0-04 ¹³ HS182-042-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	N/A
230	Pickersgill Kaye Limited	HS181-043-1-7-#-0-04 ¹³ HS182-043-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	N/A
231	Pickersgill Kaye Limited	HS111-001-1-7-#-0-04 ¹³ HS112-001-1-7-#-0-04 ¹³	Single-point emergency exit device with automatic deadlock	None	Handle	N/A
232	Pickersgill Kaye Limited	HS131-010-1-7-#-0-04 ¹³ HS132-010-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	Key and handle	Key and handle	Y to AC, AE to AH, BI to CB
233	Pickersgill Kaye Limited	HS131-005-1-7-#-0-04 ¹³ HS132-005-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	Key and handle	Thumbturn and handle	Y to AC, AE to AH, BI to CB
234	Pickersgill Kaye Limited	HS131-006-1-7-#-0-04 ¹³ HS132-006-1-7-#-0-04 ¹³	Single-point locking system with manual deadlocking	Key and handle	Thumbturn and handle with break dome	Y to AC, AE to AH, BI to CB
235	Pickersgill Kaye Limited	HS111-044-1-7-#-0-04 ¹³ HS112-044-1-7-#-0-04 ¹³	Single-point panic exit device with automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
236	Pickersgill Kaye Limited	HS181-044-1-7-#-0-04 ¹³ HS182-044-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
237	Pickersgill Kaye Limited	HS181-045-1-7-#-0-04 ¹³ HS182-045-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
238	Pickersgill Kaye Limited	HS181-046-1-7-#-0-04 ¹³ HS182-046-1-7-#-0-04 ¹³	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
239	Pickersgill Kaye Limited	HS111-004-1-7-#-0-04 ¹³ HS112-004-1-7-#-0-04 ¹³	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, BI to CB
240	Pickersgill Kaye Limited	HS171-005-1-7-#-#-04 ¹³ HS172-005-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with key override	N/A
241	Pickersgill Kaye Limited	HS171-011-1-7-#-#-04 ¹³ HS172-011-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle	N/A
242	Pickersgill Kaye Limited	HS171-012-1-7-#-#-04 ¹³ HS172-012-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override	N/A

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				External Face	Internal Face	
243	Pickersgill Kaye Limited	HS171-013-1-7-#-#-04 ¹³ HS172-013-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override with break dome	N/A
244	Pickersgill Kaye Limited	HS171-007-1-7-#-#-04 ¹³ HS172-007-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, BI to CB
245	Pickersgill Kaye Limited	HS171-009-1-7-#-#-04 ¹³ HS172-009-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, BI to CB
246	Pickersgill Kaye Limited	HS171-003-1-7-#-#-04 ¹³ HS172-003-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, BI to CB
247	Pickersgill Kaye Limited	HS171-004-1-7-#-#-04 ¹³ HS172-004-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override with break dome	Y to AC, AE to AH, BI to CB
248	Pickersgill Kaye Limited	HS111-044-1-7-#-#-04 ¹³ HS112-044-1-7-#-#-04 ¹³	Single-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB

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				External Face	Internal Face	
249	Pickersgill Kaye Limited	HS181-044-1-7-#-#-04 ¹³ HS182-044-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by key /access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
250	Pickersgill Kaye Limited	HS181-045-1-7-#-#-04 ¹³ HS182-045-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
251	Pickersgill Kaye Limited	HS181-046-1-7-#-#-04 ¹³ HS182-046-1-7-#-#-04 ¹³	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with break dome /access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
252	Pickersgill Kaye Limited	HS111-004-1-7-#-#-04 ¹³ HS112-004-1-7-#-#-04 ¹³	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, BI to CB
253	Pickersgill Kaye Limited	HS135-207-1-7-#-0-04 ¹³ HS136-207-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	None	Key and handle	N/A
254	Pickersgill Kaye Limited	HS135-201-1-7-#-0-04 ¹³ HS136-201-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	None	Thumbturn and handle	N/A
255	Pickersgill Kaye Limited	HS135-202-1-7-#-0-04 ¹³ HS136-202-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	None	Thumbturn and handle with break dome	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
256	Pickersgill Kaye Limited	HS115-241-1-7-#-0-04 ¹³ HS116-241-1-7-#-0-04 ¹³	Three-point panic exit device with automatic deadlock	None	Full width push bar protected by a shrouding device ^{10,12}	N/A
257	Pickersgill Kaye Limited	HS185-241-1-7-#-0-04 ¹³ HS186-241-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	N/A
258	Pickersgill Kaye Limited	HS185-242-1-7-#-0-04 ¹³ HS186-242-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	N/A
259	Pickersgill Kaye Limited	HS185-243-1-7-#-0-04 ¹³ HS186-243-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	N/A
260	Pickersgill Kaye Limited	HS115-201-1-7-#-0-04 ¹³ HS116-201-1-7-#-0-04 ¹³	Three-point emergency exit device with automatic deadlock	None	Handle	N/A
261	Pickersgill Kaye Limited	HS137-207-1-7-#-0-04 ¹³ HS138-207-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	None	Key and handle	N/A
262	Pickersgill Kaye Limited	HS137-201-1-7-#-0-04 ¹³ HS138-201-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	None	Thumbturn and handle	N/A
263	Pickersgill Kaye Limited	HS137-202-1-7-#-0-04 ¹³ HS138-202-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	None	Thumbturn and handle with break dome	N/A

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				External Face	Internal Face	
264	Pickersgill Kaye Limited	HS117-241-1-7-#-0-04 ¹³ HS118-241-1-7-#-0-04 ¹³	Three-point panic exit device with 90° slave unit and automatic deadlock	None	Full width push bar protected by a shrouding device ^{10,12}	N/A
265	Pickersgill Kaye Limited	HS187-241-1-7-#-0-04 ¹³ HS188-241-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	N/A
266	Pickersgill Kaye Limited	HS187-242-1-7-#-0-04 ¹³ HS188-242-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	N/A
267	Pickersgill Kaye Limited	HS187-243-1-7-#-0-04 ¹³ HS188-243-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	N/A
268	Pickersgill Kaye Limited	HS117-201-1-7-#-0-04 ¹³ HS118-201-1-7-#-0-04 ¹³	Three-point emergency exit device with 90° slave unit and automatic deadlock	None	Handle	N/A
269	Pickersgill Kaye Limited	HS135-210-1-7-#-0-04 ¹³ HS136-210-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	Key and handle	Key and handle	Y to AC, AE to AH, BI to CB
270	Pickersgill Kaye Limited	HS135-205-1-7-#-0-04 ¹³ HS136-205-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y to AC, AE to AH, BI to CB
271	Pickersgill Kaye Limited	HS135-206-1-7-#-0-04 ¹³ HS136-206-1-7-#-0-04 ¹³	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle with break dome	Y to AC, AE to AH, BI to CB

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				External Face	Internal Face	
272	Pickersgill Kaye Limited	HS115-244-1-7-#-0-04 ¹³ HS116-244-1-7-#-0-04 ¹³	Three-point panic exit device with automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
273	Pickersgill Kaye Limited	HS185-244-1-7-#-0-04 ¹³ HS186-244-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
274	Pickersgill Kaye Limited	HS185-245-1-7-#-0-04 ¹³ HS186-245-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
275	Pickersgill Kaye Limited	HS185-246-1-7-#-0-04 ¹³ HS186-246-1-7-#-0-04 ¹³	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
276	Pickersgill Kaye Limited	HS115-204-1-7-#-0-04 ¹³ HS116-204-1-7-#-0-04 ¹³	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, BI to CB
277	Pickersgill Kaye Limited	HS137-210-1-7-#-0-04 ¹³ HS138-210-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	Key and handle	Key and handle	Y to AC, AE to AH, BI to CB
278	Pickersgill Kaye Limited	HS137-205-1-7-#-0-04 ¹³ HS138-205-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	Key and handle	Thumbturn and handle	Y to AC, AE to AH, BI to CB
279	Pickersgill Kaye Limited	HS137-206-1-7-#-0-04 ¹³ HS138-206-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and manual deadlock	Key and handle	Thumbturn and handle with break dome	Y to AC, AE to AH, BI to CB

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				External Face	Internal Face	
280	Pickersgill Kaye Limited	HS117-244-1-7-#-0-04 ¹³ HS118-244-1-7-#-0-04 ¹³	Three-point panic exit device with 90° slave unit and automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
281	Pickersgill Kaye Limited	HS187-244-1-7-#-0-04 ¹³ HS188-244-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by key protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
282	Pickersgill Kaye Limited	HS187-245-1-7-#-0-04 ¹³ HS188-245-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
283	Pickersgill Kaye Limited	HS187-246-1-7-#-0-04 ¹³ HS188-246-1-7-#-0-04 ¹³	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn with break dome protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
284	Pickersgill Kaye Limited	HS117-204-1-7-#-0-04 ¹³ HS118-204-1-7-#-0-04 ¹³	Three-point emergency exit device with 90° slave unit and automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, BI to CB
285	Pickersgill Kaye Limited	HS175-205-1-7-#-#-04 ¹³ HS176-205-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with key override	N/A
286	Pickersgill Kaye Limited	HS175-211-1-7-#-#-04 ¹³ HS176-211-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
287	Pickersgill Kaye Limited	HS175-212-1-7-#-#-04 ¹³ HS176-212-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override	N/A
288	Pickersgill Kaye Limited	HS175-213-1-7-#-#-04 ¹³ HS176-213-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override with break dome	N/A
289	Pickersgill Kaye Limited	HS175-207-1-7-#-#-04 ¹³ HS176-207-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, BI to CB
290	Pickersgill Kaye Limited	HS175-209-1-7-#-#-04 ¹³ HS176-209-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, BI to CB
291	Pickersgill Kaye Limited	HS175-203-1-7-#-#-04 ¹³ HS176-203-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, BI to CB
292	Pickersgill Kaye Limited	HS175-204-1-7-#-#-04 ¹³ HS176-204-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override with break dome	Y to AC, AE to AH, BI to CB

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
293	Pickersgill Kaye Limited	HS115-244-1-7-#-#-04 ¹³ HS116-244-1-7-#-#-04 ¹³	Three-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
294	Pickersgill Kaye Limited	HS185-244-1-7-#-#-04 ¹³ HS186-244-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by key /access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
295	Pickersgill Kaye Limited	HS185-245-1-7-#-#-04 ¹³ HS186-245-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
296	Pickersgill Kaye Limited	HS185-246-1-7-#-#-04 ¹³ HS186-246-1-7-#-#-04 ¹³	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with break dome /access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
297	Pickersgill Kaye Limited	HS115-204-1-7-#-#-04 ¹³ HS116-204-1-7-#-#-04 ¹³	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, BI to CB
298	Pickersgill Kaye Limited	HS177-205-1-7-#-#-04 ¹³ HS178-205-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	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	
299	Pickersgill Kaye Limited	HS177-211-1-7-#-#-04 ¹³ HS178-211-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle	N/A
300	Pickersgill Kaye Limited	HS177-212-1-7-#-#-04 ¹³ HS178-212-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override	N/A
301	Pickersgill Kaye Limited	HS177-213-1-7-#-#-04 ¹³ HS178-213-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	None	Access control and handle with thumbturn override with break dome	N/A
302	Pickersgill Kaye Limited	HS177-207-1-7-#-#-04 ¹³ HS178-207-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, BI to CB
303	Pickersgill Kaye Limited	HS177-209-1-7-#-#-04 ¹³ HS178-209-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, BI to CB

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
304	Pickersgill Kaye Limited	HS177-203-1-7-#-#-04 ¹³ HS178-203-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, BI to CB
305	Pickersgill Kaye Limited	HS177-204-1-7-#-#-04 ¹³ HS178-204-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Access control and handle with thumbturn override with break dome	Y to AC, AE to AH, BI to CB
306	Pickersgill Kaye Limited	HS117-244-1-7-#-#-04 ¹³ HS118-244-1-7-#-#-04 ¹³	Three-point panic exit device and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
307	Pickersgill Kaye Limited	HS187-244-1-7-#-#-04 ¹³ HS188-244-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by key/access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
308	Pickersgill Kaye Limited	HS187-245-1-7-#-#-04 ¹³ HS188-245-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB

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				External Face	Internal Face	
309	Pickersgill Kaye Limited	HS187-246-1-7-#-#-04 ¹³ HS188-246-1-7-#-#-04 ¹³	Three-point locking system and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with break dome /access control device protected by a shrouding device ^{10,12}	Y to AC, AE to AH, BI to CB
310	Pickersgill Kaye Limited	HS117-204-1-7-#-#-04 ¹³ HS118-204-1-7-#-#-04 ¹³	Three-point emergency exit device and 90° slave unit with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ¹¹	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, BI to CB
311	Surelock McGill Limited	Purbrook PB101	Single-point locking system	None	Key and handle	N/A
312	Surelock McGill Limited	Purbrook PB103	Single-point locking system	None	Thumb turn and handle	N/A
313	Surelock McGill Limited	Purbrook PB104	Single-point emergency exit locking system	None	Full width push bar protected by a shrouding device	N/A
314	Surelock McGill Limited	Purbrook PB105	Single-point emergency exit locking system	None	Handle	N/A
315	Surelock McGill Limited	Purbrook PB105-H3	Single-point emergency exit locking system	None	Push pad protected by a shrouding device ¹⁰	N/A
316	Surelock McGill Limited	Purbrook PB111-P5 ⁸	Single-point locking system	Key and handle	Key and handle	Z to AG
317	Surelock McGill Limited	Purbrook PB113-P5 ⁸	Single-point locking system	Key and handle	Thumb turn and handle	Z to AG

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				External Face	Internal Face	
318	Surelock McGill Limited	Purbrook PB114-P5 ⁸	Single-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ¹⁰	Z to AG
319	Surelock McGill Limited	Purbrook PB115-P5 ⁸	Single-point emergency exit locking system	Key and handle	Handle	Z to AG
320	Surelock McGill Limited	Purbrook PB115-P5 ⁸ -H3	Single-point emergency exit locking system	Key and handle	Push pad protected by a shrouding device ¹⁰	Z to AG
321	Surelock McGill Limited	Purbrook PB121-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle with key override	N/A
322	Surelock McGill Limited	Purbrook PB121-P5 ⁸ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle with key override	Z to AG
323	Surelock McGill Limited	Purbrook PB122-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle	N/A
324	Surelock McGill Limited	Purbrook PB122-P5 ⁸ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle	Z to AG
325	Surelock McGill Limited	Purbrook PB123-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	None	Access control and handle with thumbturn override	N/A
326	Surelock McGill Limited	Purbrook PB123-P5 ⁸ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	Z to AG
327	Surelock McGill Limited	Purbrook PB124-P5 ⁸ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ¹⁰	Z to AG

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Appendix to Certificate No: 234d Part 4 Sunray Engineering Limited

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
328	Surelock McGill Limited	Purbrook PB125-P5 ⁸ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Handle	Z to AG
329	Surelock McGill Limited	Purbrook PB125-P5 ⁸ -H3-K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ¹¹	Handle plus external access control entry device with key override	Push pad protected by a shrouding device ¹⁰	Z to AG

Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹⁴
A	Abloy	CY304 Protec	Europrofile double cylinder (key:key)	+
B	Access2	Tigres Omega	Europrofile double cylinder (key:key)	+
C	Assa	4822	Europrofile double cylinder (key:key)	+
D	Assa	7622	Europrofile double cylinder (key:key)	
E	Assa	C5822	Europrofile double cylinder (key:key)	+
F	Assa	dp4422	Europrofile double cylinder (key:key)	+
G	Kaba	Gege RAM	Europrofile double cylinder (key:key)	+
H	Kaba	Quattro PluS	Europrofile double cylinder (key:key)	+
I	Medeco	M3-ARX	Europrofile double cylinder (key:key)	+
J	Abloy	CY304 Protec Cliq ¹⁵	Europrofile double cylinder (key:key) (mechatronic)	+
K	Assa	44M22 Cliq ¹⁵	Europrofile double cylinder (key:key) (mechatronic)	+
L	Abloy	CY305 Protec	Europrofile double cylinder (key:thumbturn)	+
M	Abloy	CY333 Protec (PT)	Europrofile double cylinder (key:thumbturn)	+
N	Access2	Tigres Omega	Europrofile double cylinder (key:thumbturn)	+
O	Assa	4827	Europrofile double cylinder (key:thumbturn)	+
P	Assa	7627	Europrofile double cylinder (key:thumbturn)	
Q	Assa	44M27 Cliq ¹⁵	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
R	Assa	C5827	Europrofile double cylinder (key:thumbturn)	+
S	Assa	dp4427	Europrofile double cylinder (key:thumbturn)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹⁴
T	Kaba	Gege RAM	Europrofile double cylinder (key:thumbturn)	+
U	Kaba	Quattro PluS	Europrofile double cylinder (key:thumbturn)	+
V	Medeco	M3-ARX	Europrofile double cylinder (key:thumbturn)	+
W	Abloy	CY305 Protec Cliq ¹⁵	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
X	Abloy	CY333 Protec Cliq ¹⁵	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
Y	Abloy	CY403 Protec	Rim cylinder	+
Z	Abloy	CY405 Disklock Pro (DP)	Rim cylinder	+
AA	Abloy	CY405 ProTec (PT)	Rim cylinder	+
AB	Assa	4857	Rim cylinder	+
AC	Assa	C5857	Rim cylinder	+
AD	Bramah	C17	Rim cylinder	
AE	Kaba	K20	Rim cylinder	
AF	Kaba	Quattro PluS	Rim cylinder	+
AG	Medico	M3ARX	Rim cylinder	+
AH	Abloy	CY403 Protec Cliq ¹⁵	Rim cylinder (mechatronic)	+
AI	Abloy	CY201 Protec (PT)	Scandinavian Oval cylinder	+
AJ	Abloy	CY201 Protec Cliq ¹⁵	Scandinavian Oval cylinder (mechatronic)	+
AK	Access2	Tigres Omega	Scandinavian Oval cylinder	+
AL	Assa	4801	Scandinavian Oval cylinder	+
AM	Assa	7601	Scandinavian Oval cylinder	
AN	Assa	C5801	Scandinavian Oval cylinder	+
AO	Assa	dp4401	Scandinavian Oval cylinder	+
AP	Kaba	K20	Scandinavian Oval cylinder	
AQ	Kaba	Quattro PluS	Scandinavian Oval cylinder	+
AR	Medeco	M3-ARX	Scandinavian Oval cylinder	+
AS	Assa	dp4401 Cliq ¹⁵	Scandinavian Oval cylinder (mechatronic)	+
AT	Locken	CL-PL2WR ¹⁵	Scandinavian Oval cylinder (mechatronic)	+
AU	Abloy	Protec CY303	Europrofile single cylinder	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹⁴
AV	Abloy	Protec Cliq CY303 ¹⁵	Europrofile single cylinder	+
AW	Access2	Tigris Omega	Europrofile single cylinder	+
AX	Access2	Tigris Plus	Europrofile single cylinder	
AY	Access2	Tigris Premier Two	Europrofile single cylinder	+
AZ	ASSA	4423	Europrofile single cylinder	+
BA	ASSA	44M23 Cliq ¹⁵	Europrofile single cylinder	+
BB	ASSA	4823	Europrofile single cylinder	
BC	ASSA	C5823	Europrofile single cylinder	+
BD	ASSA	7623	Europrofile single cylinder	
BE	Kaba	Gege RAM	Europrofile single cylinder	+
BF	Kaba	Gege pExtra	Europrofile single cylinder	+
BG	Kaba	Quattro PluS	Europrofile single cylinder	+
BH	Medeco	M3-ARX	Europrofile single cylinder	+
BI	Abloy	CY403 Protec2	Rim cylinder	+
BJ	Abloy	CY403 Protec 2 Cliq/Cliq Remote ¹⁵	Rim cylinder (mechatronic)	+
BK	Abloy	CY403 Disklock Pro	Rim cylinder	+
BL	Abloy	CY403 Novel	Rim cylinder	+
BM	Abloy	CY405 Protec2	Rim cylinder	+
BN	Abloy	CY405 Protec Cliq/Cliq Remote ¹⁵	Rim cylinder (mechatronic)	+
BO	Abloy	CY405 Protec 2 Cliq/Cliq Remote ¹⁵	Rim cylinder (mechatronic)	+
BP	Abloy	CY405 Novel	Rim cylinder	+
BQ	Assa	4457 Cliq ¹⁵	Rim cylinder (mechatronic)	+
BR	Abloy	CY404 Protec	Screw-in cylinder	+
BS	Abloy	CY404 Protec2	Screw-in cylinder	+
BT	Abloy	CY404 Protec Cliq/Cliq Remote ¹⁵	Screw-in cylinder (mechatronic)	+
BU	Abloy	CY404 Protec 2Cliq/Cliq Remote ¹⁵	Screw-in cylinder (mechatronic)	+
BV	Abloy	CY404 Disklock Pro	Screw-in cylinder	+
BW	Abloy	CY404 Novel	Screw-in cylinder	+
BX	Assa	4451 Cliq ¹⁵	Screw-in cylinder (mechatronic)	+
BY	Assa	4851	Screw-in cylinder	

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹⁴
BZ	Assa	C5851	Screw-in cylinder	+
CA	Kaba	K207.203 C5-SC	Screw-in cylinder	
CB	Medico	M3ARX MOTC-1001	Screw-in cylinder	+

Accessories Approved on ExcluDoor 4 Mk2 Doorsets (LPCB Ref. No. 234d/05)

Accessory ¹⁶	Description	Compatible Locking Systems ²		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 4 vision panel	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge ¹⁷	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329
ExcluVent 4 louvre panel located in the top half of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf ¹⁷	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329
ExcluVent 4 louvre panel located in the bottom half of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf ¹⁷	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329
ExcluVent 4 louvre panels located in the top and bottom halves of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top and bottom halves of the leaf ¹⁷	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329

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Accessory ¹⁶	Description	Compatible Locking Systems ²		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 4 vision panel located in the top half of the leaf with ExcluVent 4 louvre panel located in the bottom half of the leaf	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge, and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf ¹⁷	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329
Door viewer	Door viewer located in the top half of the leaf	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1 to 65, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 112 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329
Door viewer located in the top half of the leaf with ExcluVent 4 louvre panel located in the bottom half of the leaf	Door viewer located in the top half of the leaf and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf ¹⁷	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329	1, 2, 3, 5, 7 to 43, 44, 46, 48 to 65, 75 to 78, 85 to 87, 99 to 101, 112 to 125, 128 to 150, 153 to 213, 215 to 329

Accessories Approved on ExcluDoor 4 Mk2 F.R. Doorsets (LPCB Ref. No. 234d/07)

Accessory	Description	Compatible Locking Systems ⁵		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 4 vision panel	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge ¹⁷	1 to 24, 44 to 65 ⁵	1 to 24, 44 to 65 ⁵	1, 2, 3, 5, 7 to 24, 44, 46, 48 to 65 ⁵
Door viewer	Door viewer located in the top half of the leaf	1 to 24, 44 to 65 ⁵	1 to 24, 44 to 65 ⁵	1, 2, 3, 5, 7 to 24, 44, 46, 48 to 65 ⁵

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Accessories Approved on ExcluDoor 4 Mk3 Doorsets (LPCB Ref. No. 234d/11)

Accessory	Description	Compatible Locking Systems ⁶		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 5 vision panel	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge ¹⁷	1, 2, 66 to 111	1, 2, 66 to 111	1, 2, 66 to 91, 95 to 111
ExcluVent 5 louvre panel located in the top half of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf ¹⁷	1, 2, 66 to 111	1, 2, 66 to 111	1, 2, 66 to 91, 95 to 111
ExcluVent 5 louvre panel located in the bottom half of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf ¹⁷	1, 2, 66 to 111	1, 2, 66 to 111	1, 2, 66 to 111
ExcluVent 5 louvre panels located in the top and bottom halves of the leaf	400 mm wide by 400 mm high (vent area) louvre vent located in the top and bottom halves of the leaf ¹⁷	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111
ExcluGlass 5 vision panel located in the top half of the leaf with ExcluVent 5 louvre panel located in the bottom half of the leaf	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge, and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf ¹⁷	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111
Door viewer	Door viewer located in the top half of the leaf	1, 2, 66 to 111	1, 2, 66 to 111	1, 2, 66 to 91, 95 to 111
Door viewer located in the top half of the leaf with ExcluVent 5 louvre panel located in the bottom half of the leaf	Door viewer located in the top half of the leaf and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf ¹⁷	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111	1, 2, 66 to 91, 95 to 111

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Notes:

1. ExcluDoor 4 Mk2 single leaf outward opening doorsets between 1 m and 1.799 m high are only approved when fitted with compatible locking systems 25 to 43, 75 to 78, 85 to 87, 92 to 94, 99 to 101, 164 to 252.
2. ExcluDoor 4 Mk2 outward opening doorsets over 2.4 m high are only approved when:
 - a. The single and double leaf doorsets are fitted with compatible locking systems 44 to 65 (Surelock McGill Slimline systems with U1 option) on the active leaf and compatible locking system 1 on the passive leaf.
 - b. The single leaf doorsets are fitted with compatible lock options 224 to 310 (Pickersgill Kaye Limited).
 - c. The double leaf doorsets are fitted with compatible lock options 253 to 310 (Pickersgill Kaye Limited) on the active leaf and compatible locking system 1 or 2 on the passive leaf.
3. The ExcluDoor 4 Mk2 and ExcluDoor 4 Mk2 F.R. outward opening doorsets achieved Security Rating 3 in the minimum locked condition when the active leaf incorporated locking options 4, 6, 45, 47, 224, 225, 226, 253, 254, 261, 262 and 263. The minimum locked condition either occurred when the deadlock was released, allowing the full width push plate to operate the locking system (options 4, 6, 45 and 47) or the door leaf was closed (options 224, 225, 226, 253, 254, 255, 261, 262 and 263). The ExcluDoor 4 Mk2 inward opening double leaf doorsets achieved at least a Security Rating 1 in the minimum locked condition.
4. The ExcluDoor 4 Mk2 and ExcluDoor 4 Mk2 F.R. double leaf doorsets can be produced with leaves of equal and unequal width, with the leaf width being within the following range:
 - a. Active leaf width between 0.615 m and 1.1695 m (excluding the astragal).
 - b. Passive leaf width between 0.2205 m and 1.714 m (excluding the astragal).
5. ExcluDoor 4 Mk2 F.R. doorsets over 2.4 m high are only approved when fitted with compatible locking systems 44 to 65 (Surelock McGill Slimline systems with U1 option) on the active leaf and compatible locking system 1 on the passive leaf.
6. The ExcluDoor 4 Mk3 doorsets incorporating locking systems 92, 93, 94, 99, 100 or 101 achieve Security Rating 3 when placed in the minimum locked condition.
7. The ExcluDoor 4 Mk3 double leaf doorsets can be produced with leaves of equal and unequal width, with the leaf width being within the following range:
 - a. Active leaf width between 0.615 m and 1.1695 m (excluding the astragal).
 - b. Passive leaf width between 0.47 m and 1.714 m (excluding the astragal).
8. The P5 cylinder guard can be replaced with the GSS4 cylinder guard supplied by Surelock McGill Limited. The compatible external cylinders on doorsets incorporating the GSS4 cylinder guards are AB, AC, AF, AK, AL, AN, AP, AQ and AS.
9. The K4 break dome can be used on Surelock McGill locking systems and the BDT break dome can be used on Tindall Mico locking systems without undermining the security rating achieved by the doorset.
10. Although outside the scope of LPS 1175: Issue 7, special consideration should be paid to the use of locking systems with 'panic bar' protection devices. This is because the panic bar should allow the door to open immediately when people are pushed against it in a panic situation. However, the 'panic bar' protection device may prevent the panic bar operating immediately in these instances. For further information, please refer to the appropriate standard for panic exit devices, i.e. BS EN 1125.
11. 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

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protected from such tampering/abuse and are resistant to any environmental conditions/interference that may cause the locking system to disengage.

12. Although outside the scope of LPS 1175: Issue 7, special consideration should be paid to the use of 'emergency exit' locking systems with separate deadlocks, e.g. Mico 942-3 INT MD or Slimline SL313-P5-H6. This is because it is generally not acceptable to separately deadlock a doorset that is fitted with a panic or emergency exit device unless the deadlock is automatically released by the action of the panic or exit device. For further information, please refer to the appropriate standards for emergency and panic exit devices, i.e. BS EN 179 and BS EN 1125 respectively.
13. The # code on the Pickersgill Kaye locking model reference represents the cylinder model (digit 9) and the electro-mechanical access control power (digit 10).
14. 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.
15. 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.
16. The only accessory approved for use on ExcluDoor 4 Mk2 doorsets between 1 m and 1.799 m high is the door viewer.
17. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.

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