

Certificate of Product Approval

Certificate Number: 234d Part 3

Issue: 08

Sunray Engineering Limited

Kingsnorth Industrial Estate
Wotton Road
Ashford
Kent
TN23 6LL

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

Products

**ExcluDoor 3 Mk2 and
ExcluDoor 3 Mk3 F.R.**
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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19 May 2016
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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 3 Mk2	Single leaf, outward opening hinged security doorset	1.8	3.075 ¹	0.75	1.24	3	234d/01
	Single leaf, inward opening hinged security doorset	1.8	3.075 ¹	0.75	1.24	3	
	Double leaf, outward opening hinged security doorset ²	1.8	3.075 ¹	1.24	2.4	3	
	Double leaf, inward opening hinged security doorset ²	1.8	3.075	1.24	2.4	3	
ExcluDoor 3 Mk3 F.R.	Single leaf, outward opening hinged security doorset	1.8	2.75 ³	0.75	1.24	3	234d/13
	Double leaf, outward opening hinged security doorset ⁴	1.8	2.75 ³	1.24	2.4	3	

Approved Locking Configurations

LPCB Ref. No.	Product Name	Type	Compatible Locking Systems ^{1,3}	
			Active Leaf	Passive Leaf
234d/01	ExcluDoor 3 Mk2	Single leaf, outward opening hinged security doorset	3 to 443	N/A
234d/01	ExcluDoor 3 Mk2	Single leaf, inward opening hinged security doorset	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	N/A
234d/01	ExcluDoor 3 Mk2	Double leaf, outward opening hinged security doorset	3 to 443	1 or 2
234d/01	ExcluDoor 3 Mk2	Double leaf, inward opening hinged security doorset	355 to 424	1 or 2
234d/13	ExcluDoor 3 Mk3 F.R.	Single leaf, outward opening hinged security doorset	25 to 32, 35, 36, 39 to 64, 67 to 84	N/A
234d/13	ExcluDoor 3 Mk3 F.R.	Double leaf, outward opening hinged security doorset	25 to 32, 35, 36, 39 to 64, 67 to 84	1 or 2

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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	Stirling ST101	Single-point locking system	None	Key and handle	N/A
4	Surelock McGill Limited	Stirling ST103 ⁵	Single-point locking system	None	Thumbturn and handle	N/A
5	Surelock McGill Limited	Stirling ST104	Single-point emergency exit locking system	None	Panic bar	N/A
6	Surelock McGill Limited	Stirling ST104	Single-point emergency exit locking system	None	Full width push bar protected by a shrouding device ⁷	N/A
7	Surelock McGill Limited	Stirling ST105	Single-point emergency exit locking system	None	Handle	N/A
8	Surelock McGill Limited	Stirling ST105-H3	Single-point emergency exit locking system	None	Push pad	N/A
9	Surelock McGill Limited	Stirling ST111-P ⁶	Single-point locking system	Key and handle	Key and handle	Z to AG
10	Surelock McGill Limited	Stirling ST113-P ^{5,6}	Single-point locking system	Key and handle	Thumbturn and handle	Z to AG
11	Surelock McGill Limited	Stirling ST114-P ⁶	Single-point emergency exit locking system	Key and handle	Panic bar	Z to AG
12	Surelock McGill Limited	Stirling ST114-P ⁶	Single-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ⁷	Z to AG
13	Surelock McGill Limited	Stirling ST115-P ⁶	Single-point emergency exit locking system	Key and handle	Handle	Z to AG
14	Surelock McGill Limited	Stirling ST115-P ⁶ -H3	Single-point emergency exit locking system	Key and handle	Push pad	Z to AG
15	Surelock McGill Limited	Stirling ST121-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle with key override	N/A

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16	Surelock McGill Limited	Stirling ST121-P ⁶ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with key override	Z to AG
17	Surelock McGill Limited	Stirling ST122-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle	N/A
18	Surelock McGill Limited	Stirling ST122-P ⁶ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle	Z to AG
19	Surelock McGill Limited	Stirling ST123-H1 ⁵	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle with thumbturn override	N/A
20	Surelock McGill Limited	Stirling ST123-P ⁶ -K13 ⁵	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	Z to AG
21	Surelock McGill Limited	Stirling ST124-P ⁶ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Panic bar	Z to AG
22	Surelock McGill Limited	Stirling ST124-P ⁶ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Z to AG
23	Surelock McGill Limited	Stirling ST125-P ⁶ -K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Handle	Z to AG
24	Surelock McGill Limited	Stirling ST125-P ⁶ -H3-K13	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Push pad	Z to AG
25	Surelock McGill Limited	Slimline SL301	Three-point locking system	None	Key and handle	N/A
26	Surelock McGill Limited	Slimline SL301-H6-K0	Three-point locking system	None	Full width push bar deadlocked by a key ⁹	N/A

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27	Surelock McGill Limited	Slimline SL301-H6-K0	Three-point locking system	None	Full width push bar protected by a shrouding device and deadlocked by a key ^{7,9}	N/A
28	Surelock McGill Limited	Slimline SL303 ⁵	Three-point locking system	None	Thumbturn and handle	N/A
29	Surelock McGill Limited	Slimline SL303-H6-K0 ⁵	Three-point locking system	None	Full width push bar deadlocked by a thumbturn ⁹	N/A
30	Surelock McGill Limited	Slimline SL303-H6-K0 ⁵	Three-point locking system	None	Full width push bar protected by a shrouding device and deadlocked by a thumbturn ^{7,9}	N/A
31	Surelock McGill Limited	Slimline SL304	Three-point panic exit locking system	None	Panic bar	N/A
32	Surelock McGill Limited	Slimline SL304	Three-point emergency exit locking system	None	Full width push bar protected by a shrouding device ⁷	N/A
33	Surelock McGill Limited	Slimline SL304-L	Three-point panic exit locking system	Key and handle (LEO L1P)	Panic bar	AV, AW, AY, BC
34	Surelock McGill Limited	Slimline SL304-L2	Three-point panic exit locking system	Key and handle (LEO L2)	Panic bar	AT to AZ
35	Surelock McGill Limited	Slimline SL305	Three-point emergency exit locking system	None	Handle	N/A
36	Surelock McGill Limited	Slimline SL305-H3	Three-point emergency exit locking system	None	Push pad	N/A
37	Surelock McGill Limited	Slimline SL305-L-H3	Three-point emergency exit locking system	Key and handle (LEO L1P)	Push pad	AV, AW, AY, BC
38	Surelock McGill Limited	Slimline SL305-L2-H3	Three-point emergency exit locking system	Key and handle (LEO L2)	Push pad	AV to BB
39	Surelock McGill Limited	Slimline SL311-P ⁶	Three-point locking system	Key and handle	Key and handle	Z to AG
40	Surelock McGill Limited	Slimline SL311-P ⁶ -H6-K0	Three-point locking system	Key and handle	Full width push bar deadlocked by a key ⁹	Z to AG
41	Surelock McGill Limited	Slimline SL313-P ^{5,6}	Three-point locking system	Key and handle	Thumbturn and handle	Z to AG

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42	Surelock McGill Limited	Slimline SL313-P ⁶ -H6-K0 ⁵	Three-point locking system	Key and handle	Full width push bar deadlocked by a thumbturn ⁹	Z to AG
43	Surelock McGill Limited	Slimline SL314-P ⁶	Three-point emergency exit locking system	Key and handle	Panic bar	Z to AG
44	Surelock McGill Limited	Slimline SL314-P ⁶	Three-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ⁷	Z to AG
45	Surelock McGill Limited	Slimline SL315-P ⁶	Three-point emergency exit locking system	Key and handle	Handle	Z to AG
46	Surelock McGill Limited	Slimline SL315-P ⁶ -H3	Three-point emergency exit locking system	Key and handle	Push pad	Z to AG
47	Surelock McGill Limited	Slimline SL321-P ⁶ -K2	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with key override	Z to AG
48	Surelock McGill Limited	Slimline SL321-P ⁶ -H6-K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Full width push bar deadlocked by a key/access control system ⁹	Z to AG
49	Surelock McGill Limited	Slimline SL322-P ⁶ -K2	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle	Z to AG
50	Surelock McGill Limited	Slimline SL323-P ⁶ -K2 ⁵	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	Z to AG
51	Surelock McGill Limited	Slimline SL323-P ⁶ -H6-K2 ⁵	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Full width push bar deadlocked by a thumb turn/ access control system ⁹	Z to AG
52	Surelock McGill Limited	Slimline SL324-P ⁶ -K2	Three-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Z to AG

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53	Surelock McGill Limited	Slimline SL324-P ⁶ -K2	Three-point panic exit locking system with electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	Z to AG
54	Surelock McGill Limited	Slimline SL325-P ⁶ -H3-K2	Three-point emergency exit locking system with electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	Z to AG
55	Surelock McGill Limited	Slimline SL325-P-K2	Three-point emergency exit locking system with electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Handle	Z to AG
56	Surelock McGill Limited	Slimline SL301-U1	Four-point locking system	None	Key and handle	N/A
57	Surelock McGill Limited	Slimline SL301-H6-K0-U1	Four-point locking system	None	Full width push bar deadlocked by a key ⁹	N/A
58	Surelock McGill Limited	Slimline SL301-H6-K0-U1	Four-point locking system	None	Full width push bar protected by a shrouding device and deadlocked by a key ^{7,9}	N/A
59	Surelock McGill Limited	Slimline SL303-U1 ⁵	Four-point locking system	None	Thumbturn and handle	N/A
60	Surelock McGill Limited	Slimline SL303-H6-K0-U1 ⁵	Four-point locking system	None	Full width push bar deadlocked by a thumbturn ⁹	N/A
61	Surelock McGill Limited	Slimline SL303-H6-K0-U1 ⁵	Four-point locking system	None	Full width push bar protected by a shrouding device and deadlocked by a thumbturn ^{7,9}	N/A
62	Surelock McGill Limited	Slimline SL304-U1	Four-point panic exit locking system	None	Panic bar	N/A
63	Surelock McGill Limited	Slimline SL304-U1	Four-point emergency exit locking system	None	Full width push bar protected by a shrouding device ⁷	N/A

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64	Surelock McGill Limited	Slimline SL305-U1	Four-point emergency exit locking system	None	Handle	N/A
65	Surelock McGill Limited	Slimline SL305-L-U1	Four-point emergency exit locking system	Key and handle (LEO L1P)	Handle	AV, AW, AY, BC
66	Surelock McGill Limited	Slimline SL305-L2-U1	Four-point emergency exit locking system	Key and handle (LEO L2)	Handle	AV to BB
67	Surelock McGill Limited	Slimline SL305-H3-U1	Four-point emergency exit locking system	None	Push pad	N/A
68	Surelock McGill Limited	Slimline SL311-P ⁶ -U1	Four-point locking system	Key and handle	Key and handle	Z to AG
69	Surelock McGill Limited	Slimline SL311-P ⁶ -H6-K0-U1	Four-point locking system	Key and handle	Full width push bar deadlocked by a key ⁹	Z to AG
70	Surelock McGill Limited	Slimline SL313-P ⁶ -U1 ⁵	Four-point locking system	Key and handle	Thumbturn and handle	Z to AG
71	Surelock McGill Limited	Slimline SL313-P ⁶ -H6-K0-U1 ⁵	Four-point locking system	Key and handle	Full width push bar deadlocked by a thumbturn ⁹	Z to AG
72	Surelock McGill Limited	Slimline SL314-P ⁶ -U1	Four-point emergency exit locking system	Key and handle	Panic bar	Z to AG
73	Surelock McGill Limited	Slimline SL314-P ⁶ -U1	Four-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ⁷	Z to AG
74	Surelock McGill Limited	Slimline SL315-P ⁶ -U1	Four-point emergency exit locking system	Key and handle	Handle	Z to AG
75	Surelock McGill Limited	Slimline SL315-P ⁶ -H3-U1	Four-point emergency exit locking system	Key and handle	Push pad	Z to AG
76	Surelock McGill Limited	Slimline SL321-P ⁶ -K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	Z to AG
77	Surelock McGill Limited	Slimline SL321-P ⁶ -H6-K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Full width push bar deadlocked by a key/access control system ⁹	Z to AG

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78	Surelock McGill Limited	Slimline SL322-P ⁶ -K2-U1	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle	Z to AG
79	Surelock McGill Limited	Slimline SL323-P ⁶ -K2-U1 ⁵	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Z to AG
80	Surelock McGill Limited	Slimline SL323-P ⁶ -H6-K2-U1 ⁵	Four-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Full width push bar deadlocked by a thumbturn/ access control system ⁹	Z to AG
81	Surelock McGill Limited	Slimline SL324-P ⁶ -K2-U1	Four-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Z to AG
82	Surelock McGill Limited	Slimline SL324-P ⁶ -K2-U1	Four-point panic exit locking system with electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	Z to AG
83	Surelock McGill Limited	Slimline SL325-P ⁶ -K2-U1	Four-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Handle	Z to AG
84	Surelock McGill Limited	Slimline SL325-P ⁶ -H3-K2-U1	Four-point emergency exit locking system with electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	Z to AG
85	Tindall Engineering Limited	Mico 942 / ELK 3	Two-point panic exit locking system	Key and handle (ELK3)	Panic bar	AI to AU
86	Tindall Engineering Limited	Mico 942	Two-point panic exit locking system	None	Panic bar	N/A

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87	Tindall Engineering Limited	Mico 942P / ELK 3	Two-point emergency exit locking system	Key and handle (ELK3)	Push pad	AI to AU
88	Tindall Engineering Limited	Mico 942P	Two-point emergency exit locking system	None	Push pad	N/A
89	Tindall Engineering Limited	Mico 942L / ELK 3	Two-point emergency exit locking system	Key and handle (ELK3)	Handle	AI to AU
90	Tindall Engineering Limited	Mico 942L	Two-point emergency exit locking system	None	Handle	N/A
91	Tindall Engineering Limited	Mico 942 EM SEC ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Access control and full width push plate with thumbturn override ⁹	N/A
92	Tindall Engineering Limited	Mico 942P EM SEC ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Access control and push pad with thumbturn override ⁹	N/A
93	Tindall Engineering Limited	Mico 942L EM SEC ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Access control and handle with thumbturn override	N/A
94	Tindall Engineering Limited	Mico 942 SATE EM SEC	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Panic Bar	N/A

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				External Face	Internal Face	
95	Tindall Engineering Limited	Mico 942P SATE EM SEC	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Push pad	N/A
96	Tindall Engineering Limited	Mico 942L SATE EM SEC	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device	Handle	N/A
97	Tindall Engineering Limited	Mico 942 EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	Y, AB, AC, AF to AH, AJ to AU
98	Tindall Engineering Limited	Mico 942 EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
99	Tindall Engineering Limited	Mico 942P EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	Y, AB, AC, AF to AH, AJ to AU
100	Tindall Engineering Limited	Mico 942P EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
101	Tindall Engineering Limited	Mico 942L EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	Y, AB, AC, AF to AH, AJ to AU

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
102	Tindall Engineering Limited	Mico 942L EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Y, AB, AC, AF to AH, AJ to AU
103	Tindall Engineering Limited	Mico 942L INT AD / USCH3	Two-point locking system with automatic deadlocking	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
104	Tindall Engineering Limited	Mico 942L INT AD / USCH3 ⁵	Two-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
105	Tindall Engineering Limited	Mico 942L INT AD	Two-point locking system with automatic deadlocking	None	Key and handle	N/A
106	Tindall Engineering Limited	Mico 942L INT AD ⁵	Two-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
107	Tindall Engineering Limited	Mico 942 INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
108	Tindall Engineering Limited	Mico 942 INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
109	Tindall Engineering Limited	Mico 942 INT MD	Two-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
110	Tindall Engineering Limited	Mico 942 INT MD ⁵	Two-point locking system with manual deadlock	None	Full width push bar deadlocked by a thumbturn ⁹	N/A
111	Tindall Engineering Limited	Mico 942P INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
112	Tindall Engineering Limited	Mico 942P INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
113	Tindall Engineering Limited	Mico 942P INT MD	Two-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
114	Tindall Engineering Limited	Mico 942P INT MD ⁵	Two-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
115	Tindall Engineering Limited	Mico 942L INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
116	Tindall Engineering Limited	Mico 942L INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
117	Tindall Engineering Limited	Mico 942L INT MD	Two-point locking system with manual deadlock	None	Key and handle	N/A
118	Tindall Engineering Limited	Mico 942L INT MD ⁵	Two-point locking system with manual deadlock	None	Thumbturn and handle	N/A
119	Tindall Engineering Limited	Mico 942 SATE EM SEC / USCH3	Two-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	Y, AB, AC, AF to AH, AJ to AU
120	Tindall Engineering Limited	Mico 942P SATE EM SEC / USCH3	Two-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	Y, AB, AC, AF to AH, AJ to AU
121	Tindall Engineering Limited	Mico 942L SATE EM SEC / USCH3	Two-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AH, AJ to AU
122	Tindall Engineering Limited	Mico 942 SATE AD / USCH3	Two-point panic exit device with automatic deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
123	Tindall Engineering Limited	Mico 942P SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
124	Tindall Engineering Limited	Mico 942L SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU
125	Tindall Engineering Limited	Mico 942 SATE MD / USCH3	Two-point panic exit device with manual deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
126	Tindall Engineering Limited	Mico 942P SATE MD / USCH3	Two-point emergency exit device with manual deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU
127	Tindall Engineering Limited	Mico 942L SATE MD / USCH3	Two-point emergency exit device with manual deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU
128	Tindall Engineering Limited	Mico 942 EPC EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	A to K
129	Tindall Engineering Limited	Mico 942 EPC EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ⁹	L to X
130	Tindall Engineering Limited	Mico 942P EPC EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	A to K
131	Tindall Engineering Limited	Mico 942P EPC EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	L to X

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				External Face	Internal Face	
132	Tindall Engineering Limited	Mico 942L EPC EM SEC / USCH3	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	A to K
133	Tindall Engineering Limited	Mico 942L EPC EM SEC / USCH3 ⁵	Two-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	L to X
134	Tindall Engineering Limited	Mico 942L EPC INT AD / USCH3	Two-point locking system with automatic deadlocking	Key and handle	Key and handle	A to K
135	Tindall Engineering Limited	Mico 942L EPC INT AD / USCH3 ⁵	Two-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	L to X
136	Tindall Engineering Limited	Mico 942L EPC INT AD	Two-point locking system with automatic deadlocking	None	Key and handle	N/A
137	Tindall Engineering Limited	Mico 942L EPC INT AD ⁵	Two-point locking system with automatic deadlocking	None	Thumbturn and handle	N/A
138	Tindall Engineering Limited	Mico 942 EPC INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	A to K
139	Tindall Engineering Limited	Mico 942 EPC INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	L to X
140	Tindall Engineering Limited	Mico 942 EPC INT MD	Two-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
141	Tindall Engineering Limited	Mico 942 EPC INT MD ⁵	Two-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
142	Tindall Engineering Limited	Mico 942P EPC INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	A to K

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				External Face	Internal Face	
143	Tindall Engineering Limited	Mico 942P EPC INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	L to X
144	Tindall Engineering Limited	Mico 942P EPC INT MD	Two-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A
145	Tindall Engineering Limited	Mico 942P EPC INT MD ⁵	Two-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
146	Tindall Engineering Limited	Mico 942L EPC INT MD / USCH3	Two-point locking system with manual deadlock	Key and handle	Key and handle	A to K
147	Tindall Engineering Limited	Mico 942L EPC INT MD / USCH3 ⁵	Two-point locking system with manual deadlock	Key and handle	Thumbturn and handle	L to X
148	Tindall Engineering Limited	Mico 942L EPC INT MD	Two-point locking system with manual deadlock	None	Key and handle	N/A
149	Tindall Engineering Limited	Mico 942L EPC INT MD ⁵	Two-point locking system with manual deadlock	None	Thumbturn and handle	N/A
150	Tindall Engineering Limited	Mico 942 EPC SATE EM SEC / USCH3	Two-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	BD to BR
151	Tindall Engineering Limited	Mico 942P EPC SATE EM SEC / USCH3	Two-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	BD to BR
152	Tindall Engineering Limited	Mico 942L EPC SATE EM SEC / USCH3	Two-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Handle	BD to BR

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
153	Tindall Engineering Limited	Mico 942 EPC SATE AD / USCH3	Two-point panic exit device with automatic deadlock	Key and handle	Panic bar	BD to BR
154	Tindall Engineering Limited	Mico 942P EPC SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key and handle	Push pad	BD to BR
155	Tindall Engineering Limited	Mico 942L EPC SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key and handle	Handle	BD to BR
156	Tindall Engineering Limited	Mico 942 EPC SATE MD / USCH3	Two-point panic exit device with manual deadlock	Key and handle	Panic bar	BD to BR
157	Tindall Engineering Limited	Mico 942P EPC SATE MD / USCH3	Two-point emergency exit device with manual deadlock	Key and handle	Push pad	BD to BR
158	Tindall Engineering Limited	Mico 942L EPC SATE MD / USCH3	Two-point emergency exit device with manual deadlock	Key and handle	Handle	BD to BR
159	Tindall Engineering Limited	Mico 942-3 / ELK 3	Three-point panic exit locking system	Key and handle (ELK3)	Panic bar	AI to AU
160	Tindall Engineering Limited	Mico 942-3	Three-point panic exit locking system	None	Panic bar	N/A
161	Tindall Engineering Limited	Mico 942-3P / ELK 3	Three-point emergency exit locking system	Key and handle (ELK3)	Push pad	AI to AU
162	Tindall Engineering Limited	Mico 942-3P	Three-point emergency exit locking system	None	Push pad	N/A
163	Tindall Engineering Limited	Mico 942-3L / ELK 3	Three-point emergency exit locking system	Key and handle (ELK3)	Handle	AI to AU
164	Tindall Engineering Limited	Mico 942-3L	Three-point emergency exit locking system	None	Handle	N/A

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				External Face	Internal Face	
165	Tindall Engineering Limited	Mico 942-3 EM SEC ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Access control and full width push plate with thumbturn override ⁹	N/A
166	Tindall Engineering Limited	Mico 942-3P EM SEC ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Access control and push pad with thumbturn override ⁹	N/A
167	Tindall Engineering Limited	Mico 942-3L EM SEC ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Access control and handle with thumbturn override	N/A
168	Tindall Engineering Limited	Mico 942-3 SATE EM SEC	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Panic bar	N/A
169	Tindall Engineering Limited	Mico 942-3P SATE EM SEC	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Push pad	N/A
170	Tindall Engineering Limited	Mico 942-3L SATE EM SEC	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device	Handle	N/A
171	Tindall Engineering Limited	Mico 942-3 EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	Y, AB, AC, AF to AH, AJ to AU

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				External Face	Internal Face	
172	Tindall Engineering Limited	Mico 942-3 EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
173	Tindall Engineering Limited	Mico 942-3P EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	Y, AB, AC, AF to AH, AJ to AU
174	Tindall Engineering Limited	Mico 942-3P EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
175	Tindall Engineering Limited	Mico 942-3L EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	Y, AB, AC, AF to AH, AJ to AU
176	Tindall Engineering Limited	Mico 942-3L EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Y, AB, AC, AF to AH, AJ to AU
177	Tindall Engineering Limited	Mico 942-3L INT AD / USCH3	Three-point locking system with automatic deadlocking	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
178	Tindall Engineering Limited	Mico 942-3L INT AD / USCH3 ⁵	Three-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
179	Tindall Engineering Limited	Mico 942-3L INT AD	Three-point locking system with automatic deadlocking	None	Key and handle	N/A

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				External Face	Internal Face	
180	Tindall Engineering Limited	Mico 942-3L INT AD ⁵	Three-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
181	Tindall Engineering Limited	Mico 942-3 INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
182	Tindall Engineering Limited	Mico 942-3 INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
183	Tindall Engineering Limited	Mico 942-3 INT MD	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
184	Tindall Engineering Limited	Mico 942-3 INT MD ⁵	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
185	Tindall Engineering Limited	Mico 942-3P INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
186	Tindall Engineering Limited	Mico 942-3P INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
187	Tindall Engineering Limited	Mico 942-3P INT MD	Three-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A
188	Tindall Engineering Limited	Mico 942-3P INT MD ⁵	Three-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
189	Tindall Engineering Limited	Mico 942-3L INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
190	Tindall Engineering Limited	Mico 942-3L INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
191	Tindall Engineering Limited	Mico 942-3L INT MD	Three-point locking system with manual deadlock	None	Key and handle	N/A
192	Tindall Engineering Limited	Mico 942-3L INT MD ⁵	Three-point locking system with manual deadlock	None	Thumbturn and handle	N/A

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Appendix to Certificate No: 234d Part 3 Sunray Engineering Limited

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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 942-3 SATE EM SEC / USCH3	Three-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	Y, AB, AC, AF to AH, AJ to AU
194	Tindall Engineering Limited	Mico 942-3P SATE EM SEC / USCH3	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	Y, AB, AC, AF to AH, AJ to AU
195	Tindall Engineering Limited	Mico 942-3L SATE EM SEC / USCH3	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AH, AJ to AU
196	Tindall Engineering Limited	Mico 942-3 SATE AD / USCH3	Three-point panic exit device with automatic deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
197	Tindall Engineering Limited	Mico 942-3P SATE AD / USCH3	Three-point emergency exit device with automatic deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU
198	Tindall Engineering Limited	Mico 942-3L SATE AD / USCH3	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU
199	Tindall Engineering Limited	Mico 942-3 SATE MD / USCH3	Three-point panic exit device with manual deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
200	Tindall Engineering Limited	Mico 942-3P SATE MD / USCH3	Three-point emergency exit device with manual deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU
201	Tindall Engineering Limited	Mico 942-3L SATE MD / USCH3	Three-point emergency exit device with manual deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU

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				External Face	Internal Face	
202	Tindall Engineering Limited	Mico 942-3 EPC EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	A to K
203	Tindall Engineering Limited	Mico 942-3 EPC EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ⁹	L to X
204	Tindall Engineering Limited	Mico 942-3P EPC EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	A to K
205	Tindall Engineering Limited	Mico 942-3P EPC EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	L to X
206	Tindall Engineering Limited	Mico 942-3L EPC EM SEC / USCH3	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	A to K
207	Tindall Engineering Limited	Mico 942-3L EPC EM SEC / USCH3 ⁵	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	L to X
208	Tindall Engineering Limited	Mico 942-3L EPC INT AD / USCH3	Three-point locking system with automatic deadlocking	Key and handle	Key and handle	A to K

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209	Tindall Engineering Limited	Mico 942-3L EPC INT AD / USCH3 ⁵	Three-point locking system with automatic deadlocking	Key and handle	Thumbturn and handle	L to X
210	Tindall Engineering Limited	Mico 942-3L EPC INT AD	Three-point locking system with automatic deadlocking	None	Key and handle	N/A
211	Tindall Engineering Limited	Mico 942-3L EPC INT AD ⁵	Three-point locking system with automatic deadlocking	None	Thumbturn and handle	N/A
212	Tindall Engineering Limited	Mico 942-3 EPC INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	A to K
213	Tindall Engineering Limited	Mico 942-3 EPC INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	L to X
214	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 ⁹	N/A
215	Tindall Engineering Limited	Mico 942-3 EPC INT MD ⁵	Three-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
216	Tindall Engineering Limited	Mico 942-3P EPC INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	A to K
217	Tindall Engineering Limited	Mico 942-3P EPC INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	L to X
218	Tindall Engineering Limited	Mico 942-3P EPC INT MD	Three-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A
219	Tindall Engineering Limited	Mico 942-3P EPC INT MD ⁵	Three-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
220	Tindall Engineering Limited	Mico 942-3L EPC INT MD / USCH3	Three-point locking system with manual deadlock	Key and handle	Key and handle	A to K
221	Tindall Engineering Limited	Mico 942-3L EPC INT MD / USCH3 ⁵	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	L to X

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				External Face	Internal Face	
222	Tindall Engineering Limited	Mico 942-3L EPC INT MD	Three-point locking system with manual deadlock	None	Key and handle	N/A
223	Tindall Engineering Limited	Mico 942-3L EPC INT MD ⁵	Three-point locking system with manual deadlock	None	Thumbturn and handle	N/A
224	Tindall Engineering Limited	Mico 942-3 EPC SATE EM SEC / USCH3	Three-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	BD to BR
225	Tindall Engineering Limited	Mico 942-3P EPC SATE EM SEC / USCH3	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	BD to BR
226	Tindall Engineering Limited	Mico 942-3L EPC SATE EM SEC / USCH3	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device and key override	Handle	BD to BR
227	Tindall Engineering Limited	Mico 942-3 EPC SATE AD / USCH3	Three-point panic exit device with automatic deadlock	Key and handle	Panic bar	BD to BR
228	Tindall Engineering Limited	Mico 942-3P EPC SATE AD / USCH3	Three-point emergency exit device with automatic deadlock	Key and handle	Push pad	BD to BR
229	Tindall Engineering Limited	Mico 942-3L EPC SATE AD / USCH3	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	BD to BR
230	Tindall Engineering Limited	Mico 942-3 EPC SATE MD / USCH3	Three-point panic exit device with manual deadlock	Key and handle	Panic bar	BD to BR
231	Tindall Engineering Limited	Mico 942-3P EPC SATE MD / USCH3	Three-point emergency exit device with manual deadlock	Key and handle	Push pad	BD to BR

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				External Face	Internal Face	
232	Tindall Engineering Limited	Mico 942-3L EPC SATE MD / USCH3	Three-point emergency exit device with manual deadlock	Key and handle	Handle	BD to BR
233	Tindall Engineering Limited	Mico Abryll PE2	Single-point panic exit device	None	Panic bar	N/A
234	Tindall Engineering Limited	Mico Abryll PE1	Single-point emergency exit device	None	Push pad	N/A
235	Tindall Engineering Limited	Mico Abryll PE3	Single-point emergency exit device	None	Handle	N/A
236	Tindall Engineering Limited	Mico Abryll EM2 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate ⁹	Y, AB, AC, AF to AH, AJ to AU
237	Tindall Engineering Limited	Mico Abryll EM2 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	Y, AB, AC, AF to AH, AJ to AU
238	Tindall Engineering Limited	Mico Abryll EM2 / USCH3 ²	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
239	Tindall Engineering Limited	Mico Abryll EM1 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad ⁹	Y, AB, AC, AF to AH, AJ to AU

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				External Face	Internal Face	
240	Tindall Engineering Limited	Mico Abryll EM1 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	Y, AB, AC, AF to AH, AJ to AU
241	Tindall Engineering Limited	Mico Abryll EM1 / USCH3 ⁵	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	Y, AB, AC, AF to AH, AJ to AU
242	Tindall Engineering Limited	Mico Abryll EM3 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle	Y, AB, AC, AF to AH, AJ to AU
243	Tindall Engineering Limited	Mico Abryll EM3 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	Y, AB, AC, AF to AH, AJ to AU
244	Tindall Engineering Limited	Mico Abryll EM3 / USCH3 ⁵	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with thumbturn override	Y, AB, AC, AF to AH, AJ to AU
245	Tindall Engineering Limited	Mico Abryll AD2 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
246	Tindall Engineering Limited	Mico Abryll AD2 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
247	Tindall Engineering Limited	Mico Abryll AD2	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a key ⁹	N/A

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				External Face	Internal Face	
248	Tindall Engineering Limited	Mico Abryll AD2 ⁵	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
249	Tindall Engineering Limited	Mico Abryll AD1 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
250	Tindall Engineering Limited	Mico Abryll AD1 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
251	Tindall Engineering Limited	Mico Abryll AD1	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a key ⁹	N/A
252	Tindall Engineering Limited	Mico Abryll AD1 ⁵	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
253	Tindall Engineering Limited	Mico Abryll AD3 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
254	Tindall Engineering Limited	Mico Abryll AD3 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
255	Tindall Engineering Limited	Mico Abryll AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
256	Tindall Engineering Limited	Mico Abryll AD3 ⁵	Single-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
257	Tindall Engineering Limited	Mico Abryll MD2 / USCH3	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
258	Tindall Engineering Limited	Mico Abryll MD2 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
259	Tindall Engineering Limited	Mico Abryll MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
260	Tindall Engineering Limited	Mico Abryll MD2 ⁵	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A

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				External Face	Internal Face	
261	Tindall Engineering Limited	Mico Abryll MD1 / USCH3	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	Y, AB, AC, AF to AH, AJ to AU
262	Tindall Engineering Limited	Mico Abryll MD1 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	Y, AB, AC, AF to AH, AJ to AU
263	Tindall Engineering Limited	Mico Abryll MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A
264	Tindall Engineering Limited	Mico Abryll MD1 ⁵	Single-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
265	Tindall Engineering Limited	Mico Abryll MD3 / USCH3	Single-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AH, AJ to AU
266	Tindall Engineering Limited	Mico Abryll MD3 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y, AB, AC, AF to AH, AJ to AU
267	Tindall Engineering Limited	Mico Abryll MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
268	Tindall Engineering Limited	Mico Abryll MD3 ⁵	Single-point locking system with manual deadlock	None	Thumbturn and handle	N/A
269	Tindall Engineering Limited	Mico Abryll SATE EM2 / USCH3	Single-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	Y, AB, AC, AF to AH, AJ to AU
270	Tindall Engineering Limited	Mico Abryll SATE EM1 / USCH3	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Push pad	Y, AB, AC, AF to AH, AJ to AU

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				External Face	Internal Face	
271	Tindall Engineering Limited	Mico Abryll SATE EM3 / USCH3	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AH, AJ to AU
272	Tindall Engineering Limited	Mico Abryll SATE AD2 / USCH3	Single-point panic exit device with automatic deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
273	Tindall Engineering Limited	Mico Abryll SATE AD1 / USCH3	Single-point emergency exit device with automatic deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU
274	Tindall Engineering Limited	Mico Abryll SATE AD3 / USCH3	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU
275	Tindall Engineering Limited	Mico Abryll SATE MD2 / USCH3	Single-point panic exit device with manual deadlock	Key and handle	Panic bar	Y, AB, AC, AF to AH, AJ to AU
276	Tindall Engineering Limited	Mico Abryll SATE MD1 / USCH3	Single-point emergency exit device with manual deadlock	Key and handle	Push pad	Y, AB, AC, AF to AH, AJ to AU
277	Tindall Engineering Limited	Mico Abryll SATE MD3 / USCH3	Single-point emergency exit device with manual deadlock	Key and handle	Handle	Y, AB, AC, AF to AH, AJ to AU
278	Tindall Engineering Limited	Mico Abryll EPC EM2 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate ⁹	BD to BR
279	Tindall Engineering Limited	Mico Abryll EPC EM2 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and full width push plate with key override ⁹	A to K

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281	Tindall Engineering Limited	Mico Abryll EPC EM1 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad ⁹	BD to BR
282	Tindall Engineering Limited	Mico Abryll EPC EM1 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with key override ⁹	A to K
283	Tindall Engineering Limited	Mico Abryll EPC EM1 / USCH3 ⁵	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and push pad with thumbturn override ⁹	L to X
284	Tindall Engineering Limited	Mico Abryll EPC EM3 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle	BD to BR
285	Tindall Engineering Limited	Mico Abryll EPC EM3 / USCH3	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Access control and handle with key override	A to K
286	Tindall Engineering Limited	Mico Abryll EPC EM3 / USCH3 ⁵	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	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	
287	Tindall Engineering Limited	Mico Abryll EPC AD2 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	A to K
288	Tindall Engineering Limited	Mico Abryll EPC AD2 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	L to X
289	Tindall Engineering Limited	Mico Abryll EPC AD2	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
290	Tindall Engineering Limited	Mico Abryll EPC AD2 ⁵	Single-point locking system with automatic deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
291	Tindall Engineering Limited	Mico Abryll EPC AD1 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a key ⁹	A to K
292	Tindall Engineering Limited	Mico Abryll EPC AD1 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	L to X
293	Tindall Engineering Limited	Mico Abryll EPC AD1	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a key ⁹	N/A
294	Tindall Engineering Limited	Mico Abryll EPC AD1 ⁵	Single-point locking system with automatic deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
295	Tindall Engineering Limited	Mico Abryll EPC AD3 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Key and handle	A to K
296	Tindall Engineering Limited	Mico Abryll EPC AD3 / USCH3 ⁵	Single-point locking system with automatic deadlock	Key and handle	Thumbturn and handle	L to X
297	Tindall Engineering Limited	Mico Abryll EPC AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
298	Tindall Engineering Limited	Mico Abryll EPC AD3 ⁵	Single-point locking system with automatic deadlock	None	Thumbturn and handle	N/A
299	Tindall Engineering Limited	Mico Abryll EPC MD2 / USCH3	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key ⁹	A to K

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
300	Tindall Engineering Limited	Mico Abryll EPC MD2 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumbturn ⁹	L to X
301	Tindall Engineering Limited	Mico Abryll EPC MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key ⁹	N/A
302	Tindall Engineering Limited	Mico Abryll EPC MD2 ⁵	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumbturn ⁹	N/A
303	Tindall Engineering Limited	Mico Abryll EPC MD1 / USCH3	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key ⁹	A to K
304	Tindall Engineering Limited	Mico Abryll EPC MD1 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumbturn ⁹	L to X
305	Tindall Engineering Limited	Mico Abryll EPC MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key ⁹	N/A
306	Tindall Engineering Limited	Mico Abryll EPC MD1 ⁵	Single-point locking system with manual deadlock	None	Push pad deadlocked by a thumbturn ⁹	N/A
307	Tindall Engineering Limited	Mico Abryll EPC MD3 / USCH3	Single-point locking system with manual deadlock	Key and handle	Key and handle	A to K
308	Tindall Engineering Limited	Mico Abryll EPC MD3 / USCH3 ⁵	Single-point locking system with manual deadlock	Key and handle	Thumbturn and handle	L to X
309	Tindall Engineering Limited	Mico Abryll EPC MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
310	Tindall Engineering Limited	Mico Abryll EPC MD3 ⁵	Single-point locking system with manual deadlock	None	Thumbturn and handle	N/A
311	Tindall Engineering Limited	Mico Abryll EPC SATE EM2 / USCH3	Single-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus external access control entry device and key override	Panic bar	BD to BR

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				External Face	Internal Face	
312	Tindall Engineering Limited	Mico Abyrll EPC SATE EM1 / USCH3	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁶	Handle plus external access control entry device and key override	Push pad	BD to BR
313	Tindall Engineering Limited	Mico Abyrll EPC SATE EM3 / USCH3	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁶	Handle plus external access control entry device and key override	Handle	BD to BR
314	Tindall Engineering Limited	Mico Abyrll EPC SATE AD2 / USCH3	Single-point panic exit device with automatic deadlock	Key and handle	Panic bar	BD to BR
315	Tindall Engineering Limited	Mico Abyrll EPC SATE AD1 / USCH3	Single-point emergency exit device with automatic deadlock	Key and handle	Push pad	BD to BR
316	Tindall Engineering Limited	Mico Abyrll EPC SATE AD3 / USCH3	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	BD to BR
317	Tindall Engineering Limited	Mico Abyrll EPC SATE MD2 / USCH3	Single-point panic exit device with manual deadlock	Key and handle	Panic bar	BD to BR
318	Tindall Engineering Limited	Mico Abyrll EPC SATE MD1 / USCH3	Single-point emergency exit device with manual deadlock	Key and handle	Push pad	BD to BR
319	Tindall Engineering Limited	Mico Abyrll EPC SATE MD3 / USCH3	Single-point emergency exit device with manual deadlock	Key and handle	Handle	BD to BR
320	Pickersgill Kaye Limited	HS131-007-1-7-#-0-03 ¹⁰ HS132-007-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	None	Key and handle	N/A
321	Pickersgill Kaye Limited	HS131-001-1-7-#-0-03 ¹⁰ HS132-001-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	None	Thumbturn and handle	N/A

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				External Face	Internal Face	
322	Pickersgill Kaye Limited	HS131-002-1-7-#-0-03 ¹⁰ HS132-002-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	None	Thumbturn and handle with break dome	N/A
323	Pickersgill Kaye Limited	HS111-041-1-7-#-0-03 ¹⁰ HS112-041-1-7-#-0-03 ¹⁰	Single-point panic exit device with automatic deadlock	None	Panic bar	N/A
324	Pickersgill Kaye Limited	HS181-041-1-7-#-0-03 ¹⁰ HS182-041-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by key ⁹	N/A
325	Pickersgill Kaye Limited	HS181-042-1-7-#-0-03 ¹⁰ HS182-042-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by thumbturn ⁹	N/A
326	Pickersgill Kaye Limited	HS181-043-1-7-#-0-03 ¹⁰ HS182-043-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	None	Full width push bar deadlocked by thumbturn with break dome ⁹	N/A
327	Pickersgill Kaye Limited	HS111-041-1-7-#-0-03 ¹⁰ HS112-041-1-7-#-0-03 ¹⁰	Single-point panic exit device with automatic deadlock	None	Full width push bar protected by a shrouding device ⁷	N/A
328	Pickersgill Kaye Limited	HS111-021-1-7-#-0-03 ¹⁰ HS112-021-1-7-#-0-03 ¹⁰	Single-point emergency exit device with automatic deadlock	None	Push pad	N/A
329	Pickersgill Kaye Limited	HS111-001-1-7-#-0-03 ¹⁰ HS112-001-1-7-#-0-03 ¹⁰	Single-point emergency exit device with automatic deadlock	None	Handle	N/A
330	Pickersgill Kaye Limited	HS131-010-1-7-#-0-03 ¹⁰ HS132-010-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	Key and handle	Key and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
331	Pickersgill Kaye Limited	HS131-005-1-7-#-0-03 ¹⁰ HS132-005-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	Key and handle	Thumbturn and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
332	Pickersgill Kaye Limited	HS131-006-1-7-#-0-03 ¹⁰ HS132-006-1-7-#-0-03 ¹⁰	Single-point locking system with manual deadlocking	Key and handle	Thumbturn and handle with break dome	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
333	Pickersgill Kaye Limited	HS111-044-1-7-#-0-03 ¹⁰ HS112-044-1-7-#-0-03 ¹⁰	Single-point panic exit device with automatic deadlock	Key and handle	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
334	Pickersgill Kaye Limited	HS181-044-1-7-#-0-03 ¹⁰ HS182-044-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by key ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
335	Pickersgill Kaye Limited	HS181-045-1-7-#-0-03 ¹⁰ HS182-045-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
336	Pickersgill Kaye Limited	HS181-046-1-7-#-0-03 ¹⁰ HS182-046-1-7-#-0-03 ¹⁰	Single-point locking system with automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn with break dome ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
337	Pickersgill Kaye Limited	HS111-044-1-7-#-0-03 ¹⁰ HS112-044-1-7-#-0-03 ¹⁰	Single-point panic exit device with automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
338	Pickersgill Kaye Limited	HS111-024-1-7-#-0-03 ¹⁰ HS112-024-1-7-#-0-03 ¹⁰	Single-point emergency exit device with automatic deadlock	Key and handle	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
339	Pickersgill Kaye Limited	HS111-004-1-7-#-0-03 ¹⁰ HS112-004-1-7-#-0-03 ¹⁰	Single-point emergency exit device with automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
340	Pickersgill Kaye Limited	HS171-005-1-7-##-03 ¹⁰ HS172-005-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with key override	N/A
341	Pickersgill Kaye Limited	HS171-011-1-7-##-03 ¹⁰ HS172-011-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle	N/A
342	Pickersgill Kaye Limited	HS171-012-1-7-##-03 ¹⁰ HS172-012-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with thumbturn override	N/A
343	Pickersgill Kaye Limited	HS171-013-1-7-##-03 ¹⁰ HS172-013-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with thumbturn override with break dome	N/A
344	Pickersgill Kaye Limited	HS171-007-1-7-##-03 ¹⁰ HS172-007-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
345	Pickersgill Kaye Limited	HS171-009-1-7-##-03 ¹⁰ HS172-009-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
346	Pickersgill Kaye Limited	HS171-003-1-7-##-03 ¹⁰ HS172-003-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
347	Pickersgill Kaye Limited	HS171-004-1-7-##-03 ¹⁰ HS172-004-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	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, AV to AY, BA, BB, BS to CF
348	Pickersgill Kaye Limited	HS111-044-1-7-##-03 ¹⁰ HS122-044-1-7-##-03 ¹⁰	Single-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
349	Pickersgill Kaye Limited	HS181-044-1-7-##-03 ¹⁰ HS182-044-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by key/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
350	Pickersgill Kaye Limited	HS181-045-1-7-##-03 ¹⁰ HS182-045-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
351	Pickersgill Kaye Limited	HS181-046-1-7-##-03 ¹⁰ HS182-046-1-7-##-03 ¹⁰	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with break dome/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
352	Pickersgill Kaye Limited	HS111-044-1-7-##-03 ¹⁰ HS112-044-1-7-##-03 ¹⁰	Single-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
353	Pickersgill Kaye Limited	HS111-024-1-7-##-03 ¹⁰ HS112-024-1-7-##-03 ¹⁰	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
354	Pickersgill Kaye Limited	HS111-004-1-7-##-03 ¹⁰ HS112-004-1-7-##-03 ¹⁰	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁶	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
355	Pickersgill Kaye Limited	HS135-207-1-7-##-03 ¹⁰ HS136-207-1-7-##-03 ¹⁰	Three-point locking system with manual deadlock	None	Key and handle	N/A
356	Pickersgill Kaye Limited	HS135-201-1-7-##-03 ¹⁰ HS136-201-1-7-##-03 ¹⁰	Three-point locking system with manual deadlock	None	Thumbturn and handle	N/A
357	Pickersgill Kaye Limited	HS135-202-1-7-##-03 ¹⁰ HS136-202-1-7-##-03 ¹⁰	Three-point locking system with manual deadlock	None	Thumbturn and handle with break dome	N/A
358	Pickersgill Kaye Limited	HS185-241-1-7-##-03 ¹⁰ HS186-241-1-7-##-03 ¹⁰	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by key ⁹	N/A
359	Pickersgill Kaye Limited	HS185-242-1-7-##-03 ¹⁰ HS186-242-1-7-##-03 ¹⁰	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by thumbturn ⁹	N/A
360	Pickersgill Kaye Limited	HS185-243-1-7-##-03 ¹⁰ HS186-243-1-7-##-03 ¹⁰	Three-point locking system with automatic deadlocking	None	Full width push bar deadlocked by thumbturn with break dome ⁹	N/A
361	Pickersgill Kaye Limited	HS115-241-1-7-##-03 ¹⁰ HS116-241-1-7-##-03 ¹⁰	Three-point panic exit device with automatic deadlocking	None	Panic bar	N/A
362	Pickersgill Kaye Limited	HS115-241-1-7-##-03 ¹⁰ HS116-241-1-7-##-03 ¹⁰	Three-point panic exit device with automatic deadlock	None	Full width push bar protected by a shrouding device ⁷	N/A

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				External Face	Internal Face	
363	Pickersgill Kaye Limited	HS115-221-1-7- #-0-03 ¹⁰ HS116-221-1-7- #-0-03 ¹⁰	Three-point emergency exit device with automatic deadlock	None	Push pad	N/A
364	Pickersgill Kaye Limited	HS115-201-1-7- #-0-03 ¹⁰ HS116-201-1-7- #-0-03 ¹⁰	Three-point emergency exit device with automatic deadlock	None	Handle	N/A
365	Pickersgill Kaye Limited	HS137-207-1-7- #-0-03 ¹⁰ HS138-207-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and manual deadlock	None	Key and handle	N/A
366	Pickersgill Kaye Limited	HS137-201-1-7- #-0-03 ¹⁰ HS138-201-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and manual deadlock	None	Thumbturn and handle	N/A
367	Pickersgill Kaye Limited	HS137-202-1-7- #-0-03 ¹⁰ HS138-202-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and manual deadlock	None	Thumbturn and handle with break dome	N/A
368	Pickersgill Kaye Limited	HS187-241-1-7- #-0-03 ¹⁰ HS188-241-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by key ⁹	N/A
369	Pickersgill Kaye Limited	HS187-242-1-7- #-0-03 ¹⁰ HS188-242-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by thumbturn ⁹	N/A
370	Pickersgill Kaye Limited	HS187-243-1-7- #-0-03 ¹⁰ HS188-243-1-7- #-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	None	Full width push bar deadlocked by thumbturn with break dome ⁹	N/A
371	Pickersgill Kaye Limited	HS117-241-1-7- #-0-03 ¹⁰ HS118-241-1-7- #-0-03 ¹⁰	Three-point panic exit device with 90° slave unit and automatic deadlock	None	Panic bar	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
372	Pickersgill Kaye Limited	HS117-241-1-7-#-0-03 ¹⁰ HS118-241-1-7-#-0-03 ¹⁰	Three-point panic exit device with 90° slave unit and automatic deadlock	None	Full width push bar protected by a shrouding device ⁷	N/A
373	Pickersgill Kaye Limited	HS117-221-1-7-#-0-03 ¹⁰ HS118-221-1-7-#-0-03 ¹⁰	Three-point emergency exit device with 90° slave unit and automatic deadlock	None	Push pad	N/A
374	Pickersgill Kaye Limited	HS117-201-1-7-#-0-03 ¹⁰ HS118-201-1-7-#-0-03 ¹⁰	Three-point emergency exit device with 90° slave unit and automatic deadlock	None	Handle	N/A
375	Pickersgill Kaye Limited	HS135-210-1-7-#-0-03 ¹⁰ HS136-210-1-7-#-0-03 ¹⁰	Three-point locking system with manual deadlock	Key and handle	Key and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
376	Pickersgill Kaye Limited	HS135-205-1-7-#-0-03 ¹⁰ HS136-205-1-7-#-0-03 ¹⁰	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
377	Pickersgill Kaye Limited	HS135-206-1-7-#-0-03 ¹⁰ HS136-206-1-7-#-0-03 ¹⁰	Three-point locking system with manual deadlock	Key and handle	Thumbturn and handle with break dome	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
378	Pickersgill Kaye Limited	HS185-244-1-7-#-0-03 ¹⁰ HS186-244-1-7-#-0-03 ¹⁰	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by key ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
379	Pickersgill Kaye Limited	HS185-245-1-7-#-0-03 ¹⁰ HS186-245-1-7-#-0-03 ¹⁰	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by thumbturn ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
380	Pickersgill Kaye Limited	HS185-246-1-7-#-0-03 ¹⁰ HS186-246-1-7-#-0-03 ¹⁰	Three-point locking system with automatic deadlocking	Key and handle	Full width push bar deadlocked by thumbturn with break dome ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
381	Pickersgill Kaye Limited	HS115-244-1-7-#-0-03 ¹⁰ HS116-244-1-7-#-0-03 ¹⁰	Three-point panic exit device with automatic deadlocking	Key and handle	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
382	Pickersgill Kaye Limited	HS115-244-1-7-#-0-03 ¹⁰ HS116-244-1-7-#-0-03 ¹⁰	Three-point panic exit device with automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
383	Pickersgill Kaye Limited	HS115-224-1-7-#-0-03 ¹⁰ HS116-224-1-7-#-0-03 ¹⁰	Three-point emergency exit device with automatic deadlock	Key and handle	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
384	Pickersgill Kaye Limited	HS115-204-1-7-#-0-03 ¹⁰ HS116-204-1-7-#-0-03 ¹⁰	Three-point emergency exit device with automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
385	Pickersgill Kaye Limited	HS137-210-1-7-#-0-03 ¹⁰ HS138-210-1-7-#-0-03 ¹⁰	Three-point locking system with 90° slave unit and manual deadlock	Key and handle	Key and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
386	Pickersgill Kaye Limited	HS137-205-1-7-#-0-03 ¹⁰ HS138-205-1-7-#-0-03 ¹⁰	Three-point locking system with 90° slave unit and manual deadlock	Key and handle	Thumbturn and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
387	Pickersgill Kaye Limited	HS137-206-1-7-#-0-03 ¹⁰ HS138-206-1-7-#-0-03 ¹⁰	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, AV to AY, BA, BB, BS to CF
388	Pickersgill Kaye Limited	HS187-244-1-7-#-0-03 ¹⁰ HS188-244-1-7-#-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by key ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
389	Pickersgill Kaye Limited	HS187-245-1-7-#-0-03 ¹⁰ HS188-245-1-7-#-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
390	Pickersgill Kaye Limited	HS187-246-1-7-#-0-03 ¹⁰ HS188-246-1-7-#-0-03 ¹⁰	Three-point locking system with 90° slave unit and automatic deadlock	Key and handle	Full width push bar deadlocked by thumbturn with break dome ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
391	Pickersgill Kaye Limited	HS117-244-1-7-#-0-03 ¹⁰ HS118-244-1-7-#-0-03 ¹⁰	Three-point panic exit device with 90° slave unit and automatic deadlock	Key and handle	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
392	Pickersgill Kaye Limited	HS117-244-1-7-#-0-03 ¹⁰ HS118-244-1-7-#-0-03 ¹⁰	Three-point panic exit device with 90° slave unit and automatic deadlock	Key and handle	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
393	Pickersgill Kaye Limited	HS117-224-1-7-#-0-03 ¹⁰ HS118-224-1-7-#-0-03 ¹⁰	Three-point emergency exit device with 90° slave unit and automatic deadlock	Key and handle	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
394	Pickersgill Kaye Limited	HS117-204-1-7-#-0-03 ¹⁰ HS118-204-1-7-#-0-03 ¹⁰	Three-point emergency exit device with 90° slave unit and automatic deadlock	Key and handle	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
395	Pickersgill Kaye Limited	HS175-205-1-7-#-#-03 ¹⁰ HS176-205-1-7-#-#-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with key override	N/A
396	Pickersgill Kaye Limited	HS175-211-1-7-#-#-03 ¹⁰ HS176-211-1-7-#-#-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle	N/A
397	Pickersgill Kaye Limited	HS175-212-1-7-#-#-03 ¹⁰ HS176-212-1-7-#-#-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with thumbturn override	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
398	Pickersgill Kaye Limited	HS175-213-1-7-##-03 ¹⁰ HS176-213-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	None	Access control and handle with thumbturn with break dome override	N/A
399	Pickersgill Kaye Limited	HS175-207-1-7-##-03 ¹⁰ HS176-207-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
400	Pickersgill Kaye Limited	HS175-209-1-7-##-03 ¹⁰ HS176-209-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
401	Pickersgill Kaye Limited	HS175-203-1-7-##-03 ¹⁰ HS176-203-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
402	Pickersgill Kaye Limited	HS175-204-1-7-##-03 ¹⁰ HS176-204-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Access control and handle with thumbturn with break dome override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
403	Pickersgill Kaye Limited	HS115-244-1-7-##-03 ¹⁰ HS116-244-1-7-##-03 ¹⁰	Three-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
404	Pickersgill Kaye Limited	HS115-244-1-7-##-03 ¹⁰ HS116-244-1-7-##-03 ¹⁰	Three-point panic exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
405	Pickersgill Kaye Limited	HS185-244-1-7-##-03 ¹⁰ HS186-244-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by key/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
406	Pickersgill Kaye Limited	HS185-245-1-7-##-03 ¹⁰ HS186-245-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
407	Pickersgill Kaye Limited	HS185-246-1-7-##-03 ¹⁰ HS186-246-1-7-##-03 ¹⁰	Three-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with breakdome/ access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
408	Pickersgill Kaye Limited	HS115-224-1-7-##-03 ¹⁰ HS116-224-1-7-##-03 ¹⁰	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
409	Pickersgill Kaye Limited	HS115-204-1-7-##-03 ¹⁰ HS116-204-1-7-##-03 ¹⁰	Three-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid ⁸	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
410	Pickersgill Kaye Limited	HS177-211-1-7-##-03 ¹⁰ HS178-211-1-7-##-03 ¹⁰	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 ⁸	None	Access control and handle	N/A
411	Pickersgill Kaye Limited	HS177-205-1-7-##-03 ¹⁰ HS178-205-1-7-##-03 ¹⁰	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 ⁸	None	Access control and handle with key override	N/A

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				External Face	Internal Face	
412	Pickersgill Kaye Limited	HS177-212-1-7-##-03 ¹⁰ HS178-212-1-7-##-03 ¹⁰	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 ^B	None	Access control and handle with thumbturn override	N/A
413	Pickersgill Kaye Limited	HS177-213-1-7-##-03 ¹⁰ HS178-213-1-7-##-03 ¹⁰	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 ^B	None	Access control and handle with thumbturn with break dome override	N/A
414	Pickersgill Kaye Limited	HS177-209-1-7-##-03 ¹⁰ HS178-209-1-7-##-03 ¹⁰	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 ^B	Handle plus access control entry device with key override	Access control and handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
415	Pickersgill Kaye Limited	HS177-207-1-7-##-03 ¹⁰ HS178-207-1-7-##-03 ¹⁰	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 ^B	Handle plus access control entry device with key override	Access control and handle with key override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
416	Pickersgill Kaye Limited	HS177-203-1-7-##-03 ¹⁰ HS178-203-1-7-##-03 ¹⁰	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 ^B	Handle plus access control entry device with key override	Access control and handle with thumbturn override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
417	Pickersgill Kaye Limited	HS177-204-1-7-##-03 ¹⁰ HS178-204-1-7-##-03 ¹⁰	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 ^B	Handle plus access control entry device with key override	Access control and handle with thumbturn with break dome override	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
418	Pickersgill Kaye Limited	HS117-244-1-7-##-03 ¹⁰ HS118-244-1-7-##-03 ¹⁰	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 ^B	Handle plus access control entry device with key override	Panic bar	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF

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				External Face	Internal Face	
419	Pickersgill Kaye Limited	HS117-244-1-7-##-03 ¹⁰ HS118-244-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
420	Pickersgill Kaye Limited	HS187-244-1-7-##-03 ¹⁰ HS188-244-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by key/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
421	Pickersgill Kaye Limited	HS187-245-1-7-##-03 ¹⁰ HS188-245-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn/access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
422	Pickersgill Kaye Limited	HS187-246-1-7-##-03 ¹⁰ HS188-246-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Full width push bar deadlocked by thumbturn with break dome /access control device ⁹	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
423	Pickersgill Kaye Limited	HS117-224-1-7-##-03 ¹⁰ HS118-224-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Push pad	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
424	Pickersgill Kaye Limited	HS117-204-1-7-##-03 ¹⁰ HS118-204-1-7-##-03 ¹⁰	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 ⁸	Handle plus access control entry device with key override	Handle	Y to AC, AE to AH, AV to AY, BA, BB, BS to CF
425	Surelock McGill Limited	Purbrook PB101	Single-point locking system	None	Key and handle	N/A
426	Surelock McGill Limited	Purbrook PB103	Single-point locking system	None	Thumb turn and handle	N/A

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Appendix to Certificate No: 234d Part 3 Sunray Engineering Limited

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
427	Surelock McGill Limited	Purbrook PB104	Single-point emergency exit locking system	None	Full width push bar protected by a shrouding device	N/A
428	Surelock McGill Limited	Purbrook PB105	Single-point emergency exit locking system	None	Handle	N/A
429	Surelock McGill Limited	Purbrook PB105-H3	Single-point emergency exit locking system	None	Push pad protected by a shrouding device ⁷	N/A
430	Surelock McGill Limited	Purbrook PB111-P ⁶	Single-point locking system	Key and handle	Key and handle	Z to AG
431	Surelock McGill Limited	Purbrook PB113-P ⁶	Single-point locking system	Key and handle	Thumb turn and handle	Z to AG
432	Surelock McGill Limited	Purbrook PB114-P ⁶	Single-point emergency exit locking system	Key and handle	Full width push bar protected by a shrouding device ⁷	Z to AG
433	Surelock McGill Limited	Purbrook PB115-P ⁶	Single-point emergency exit locking system	Key and handle	Handle	Z to AG
434	Surelock McGill Limited	Purbrook PB115-P ⁶ -H3	Single-point emergency exit locking system	Key and handle	Push pad protected by a shrouding device ⁷	Z to AG
435	Surelock McGill Limited	Purbrook PB121-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle with key override	N/A
436	Surelock McGill Limited	Purbrook PB121-P ⁶ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with key override	Z to AG
437	Surelock McGill Limited	Purbrook PB122-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle	N/A
438	Surelock McGill Limited	Purbrook PB122-P ⁶ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle	Z to AG

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				External Face	Internal Face	
439	Surelock McGill Limited	Purbrook PB123-H1	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	None	Access control and handle with thumbturn override	N/A
440	Surelock McGill Limited	Purbrook PB123-P ⁶ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	Z to AG
441	Surelock McGill Limited	Purbrook PB124-P ⁶ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Full width push bar protected by a shrouding device ⁷	Z to AG
442	Surelock McGill Limited	Purbrook PB125-P ⁶ -K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Handle	Z to AG
443	Surelock McGill Limited	Purbrook PB125-P ⁶ -H3-K2	Single-point electro-mechanical access control lock powered by 12V, 24V or 50V solenoid ⁸	Handle plus external access control entry device with key override	Push pad protected by a shrouding device ⁷	Z to AG

Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹¹
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 ¹²	Europrofile double cylinder (key:key) (mechatronic)	+
K	Assa	44M22 Cliq ¹²	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)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹
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 ¹²	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
R	Assa	C5827	Europrofile double cylinder (key:thumbturn)	+
S	Assa	dp4427	Europrofile double cylinder (key:thumbturn)	+
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 ¹²	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
X	Abloy	CY333 Protec Cliq ¹²	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 ¹²	Rim cylinder (mechatronic)	+
AI	Abloy	CY201 Disklock Pro (DP)	Scandinavian Oval cylinder	+
AJ	Abloy	CY201 Protec (PT)	Scandinavian Oval cylinder	+
AK	Abloy	CY201 Protec Cliq ¹²	Scandinavian Oval cylinder (mechatronic)	+
AL	Access2	Tigres Omega	Scandinavian Oval cylinder	+
AM	Assa	4801	Scandinavian Oval cylinder	+
AN	Assa	7601	Scandinavian Oval cylinder	
AO	Assa	C5801	Scandinavian Oval cylinder	+
AP	Assa	dp4401	Scandinavian Oval cylinder	+
AQ	Kaba	K20	Scandinavian Oval cylinder	
AR	Kaba	Quattro PluS	Scandinavian Oval cylinder	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹
AS	Medeco	M3-ARX	Scandinavian Oval cylinder	+
AT	Assa	dp4401 Cliq ¹²	Scandinavian Oval cylinder (mechatronic)	+
AU	Locken	CL-PL2WR ¹²	Scandinavian Oval cylinder (mechatronic)	+
AV	Abloy	CY404 Disklock Pro (DP)	Screw-in cylinder	+
AW	Abloy	CY404 Protec (PT)	Screw-in cylinder	+
AX	Assa	4851	Screw-in cylinder	+
AY	Assa	C5851	Screw-in cylinder	+
AZ	Bramah	C17SI	Screw-in cylinder	
BA	Kaba	K207.203 C5-SC	Screw-in cylinder	
BB	Medico	M3ARX MOTC-1001	Screw-in cylinder	+
BC	Winkhaus	VS629	Screw-in cylinder	
BD	Abloy	Disklock Pro CY303	Europrofile single cylinder	+
BE	Abloy	Protec CY303	Europrofile single cylinder	+
BF	Abloy	Protec Cliq CY303 ¹²	Europrofile single cylinder (mechatronic)	+
BG	Access2	Tigris Omega	Europrofile single cylinder	+
BH	Access2	Tigris Plus	Europrofile single cylinder	
BI	Access2	Tigris Premier Two	Europrofile single cylinder	+
BJ	ASSA	4423	Europrofile single cylinder	+
BK	ASSA	44M23 Cliq ¹²	Europrofile single cylinder (mechatronic)	+
BL	ASSA	4823	Europrofile single cylinder	
BM	ASSA	C5823	Europrofile single cylinder	+
BN	ASSA	7623	Europrofile single cylinder	
BO	Kaba	Gege RAM	Europrofile single cylinder	+
BP	Kaba	Gege pExtra	Europrofile single cylinder	+
BQ	Kaba	Quattro Plus	Europrofile single cylinder	+
BR	Medeco	M3-ARX	Europrofile single cylinder	+
BS	Abloy	CY403 Protec2	Rim cylinder	+
BT	Abloy	CY403 Protec 2 Cliq/Cliq Remote ¹²	Rim cylinder (mechatronic)	+
BU	Abloy	CY403 Disklock Pro	Rim cylinder	+
BV	Abloy	CY403 Novel	Rim cylinder	+
BW	Abloy	CY405 Protec2	Rim cylinder	+
BX	Abloy	CY405 Protec Cliq/Cliq Remote ¹²	Rim cylinder (mechatronic)	+
BY	Abloy	CY405 Protec 2 Cliq/Cliq Remote ¹²	Rim cylinder (mechatronic)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹
BZ	Abloy	CY405 Novel	Rim cylinder	+
CA	Assa	4457 Cliq ¹²	Rim cylinder (mechatronic)	+
CB	Abloy	CY404 Protec2	Screw-in cylinder	+
CC	Abloy	CY404 Protec Cliq/Cliq Remote ¹²	Screw-in cylinder (mechatronic)	+
CD	Abloy	CY404 Protec 2Cliq/Cliq Remote ¹²	Screw-in cylinder (mechatronic)	+
CE	Abloy	CY404 Novel	Screw-in cylinder	+
CF	Assa	4451 Cliq ¹²	Screw-in cylinder (mechatronic)	+

Accessories approved on ExcluDoor 3 Mk2 outward opening doorsets

Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 3 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 ¹³	1 to 443	1 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
Vistamatic Sherman vision panel ¹⁴	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 ¹³	1 ¹⁶ , 2, 3, 9, 25, 26 ¹⁵ , 27 ¹⁵ , 39, 40, 56, 57 ¹⁵ , 58 ¹⁵ , 68, 69, 103, 105, 107, 109 ¹⁵ , 111, 113 ¹⁵ , 115, 117 ¹⁵ 134, 136, 138, 140 ¹⁵ , 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 183 ¹⁵ , 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 214 ¹⁵ , 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 259 ¹⁵ , 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 295, 297, 299, 301 ¹⁵ , 303, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430	1 ¹⁶ , 2, 3, 9, 25, 26 ¹⁵ , 27 ¹⁵ , 39, 40, 56, 57 ¹⁵ , 58 ¹⁵ , 68, 69, 103, 105, 107, 109 ¹⁵ , 111, 113 ¹⁵ , 115, 117 ¹⁵ 134, 136, 138, 140 ¹⁵ , 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 183 ¹⁵ , 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 214 ¹⁵ , 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 259 ¹⁵ , 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 295, 297, 299, 301 ¹⁵ , 303, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430	1 ¹⁶ , 2, 3, 9, 25, 27 ¹⁵ , 39, 40, 56, 58 ¹⁵ , 68, 69, 103, 105, 107, 111, 113 ¹⁵ , 115, 117 ¹⁵ 134, 136, 138, 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430
ExcluVent 3 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 ¹³	1 to 443	1 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443
ExcluVent 3 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 ¹³	1 to 443	1 to 443	1 to 443

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluVent 3 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 ¹³	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443
ExcluGlass 3 vision panel located in the top half of the leaf with ExcluVent 3 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 ¹³	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
Vistamatic Sherman vision panel ¹⁴ located in the top half of the leaf with ExcluVent 3 louvre panel located in the bottom half of the leaf	200 mm wide by 300 mm high 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 ¹³	1 ¹⁶ , 2, 3, 9, 25, 27 ¹⁵ , 39, 40, 56, 58 ¹⁵ , 68, 69, 103, 105, 107, 111, 113 ¹⁵ , 115, 117 ¹⁵ , 134, 136, 138, 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 295, 297, 299, 303, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430	1 ¹⁶ , 2, 3, 9, 25, 27 ¹⁵ , 39, 40, 56, 58 ¹⁵ , 68, 69, 103, 105, 107, 111, 113 ¹⁵ , 115, 117 ¹⁵ , 134, 136, 138, 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 295, 297, 299, 303, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430	1 ¹⁶ , 2, 3, 9, 25, 27 ¹⁵ , 39, 40, 56, 58 ¹⁵ , 68, 69, 103, 105, 107, 111, 113 ¹⁵ , 115, 117 ¹⁵ , 134, 136, 138, 142, 144 ¹⁵ , 146, 148 ¹⁵ , 177, 179, 181, 185, 187 ¹⁵ , 189, 191 ¹⁵ , 208, 210, 212, 216, 218 ¹⁵ , 220, 222 ¹⁵ , 245, 247, 249, 251, 253, 255, 257, 261, 263 ¹⁵ , 265, 267 ¹⁵ , 287, 289, 291, 293, 295, 297, 299, 303, 305 ¹⁵ , 307, 309 ¹⁵ , 320 ¹⁵ , 324, 330, 334, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388, 425, 430
Door viewer	Door viewer located in the top half of the leaf	1 to 443	1 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443

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Signed for LPCB

Paul Dillon
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Appendix to Certificate No: 234d Part 3 Sunray Engineering Limited

Issue: 08

Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
Door viewer located in the top half of the leaf with ExcluVent 3 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 ¹³	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443	1, 2, 3, 4, 6 to 10, 12 to 20, 22 to 25, 27, 28, 30, 32, 35 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63 to 71, 73 to 81, 83, 84, 87 to 93, 95 to 108, 111 to 118, 120, 121, 123, 124, 126 to 139, 142 to 149, 151, 152, 154, 155, 157, 158, 161 to 167, 169 to 182, 185 to 192, 194, 195, 197, 198, 200 to 213, 216 to 223, 225, 226, 228, 229, 231, 232, 234 to 258, 261 to 268, 270, 271, 273, 274, 276 to 300, 303 to 310, 312, 313, 315, 316, 318 to 322, 324 to 332, 334 to 347, 349 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 443

Accessories approved on ExcluDoor 3 Mk2 inward opening doorsets

Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 3 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 ¹³	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424
Vistamatic Sherman vision panel ¹⁴	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 ¹³	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluVent 3 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 ¹³	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424
ExcluVent 3 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 ¹³	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424
ExcluVent 3 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 ¹³	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424
ExcluGlass 3 vision panel located in the top half of the leaf with ExcluVent 3 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 ¹³	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424
Vistamatic Sherman vision panel ¹⁴ located in the top half of the leaf with ExcluVent 3 louvre panel located in the bottom half of the leaf	200 mm wide by 300 mm high 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 ¹³	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388	56, 68, 355 ¹⁵ , 358, 365 ¹⁵ , 368, 375, 378, 385, 388
Door viewer	Door viewer located in the top half of the leaf	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 424	56, 59,64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
Door viewer located in the top half of the leaf with ExcluVent 3 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 ¹³	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424	56, 59, 64 to 66, 68, 70, 74, 76, 78, 79, 83, 355 to 360, 362 to 370, 372 to 380, 382 to 390, 392 to 402, 404 to 417, 419 to 424

Accessories approved on ExcluDoor 3 Mk3 F.R. outward opening doorsets

Accessory	Description	Compatible Locking Systems ³		
		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 ¹³	1, 2, 25 to 32, 35, 36, 39 to 64, 67 to 84	1, 2, 25 to 32, 35, 36, 39 to 64, 67 to 84	1, 2, 25, 27, 28, 30, 32, 35, 36, 39 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63, 64, 67 to 71, 73 to 81, 83, 84
Door viewer	Door viewer located in the top half of the leaf	1, 2, 25 to 32, 35, 36, 39 to 64, 67 to 84	1, 2, 25 to 32, 35, 36, 39 to 64, 67 to 84	1, 2, 25, 27, 28, 30, 32, 35, 36, 39 to 42, 44 to 52, 54 to 56, 58, 59, 61, 63, 64, 67 to 71, 73 to 81, 83, 84

Notes:

- ExcluDoor 3 Mk2 doorsets over 2.4 m high are only approved when:
 - The single and double leaf doorsets are fitted with compatible locking systems 25 to 84 (Surelock McGill Slimline systems) on the active leaf and compatible locking system 1 on the passive leaf.
 - The single and double leaf doorsets are fitted with compatible lock options 320 to 424 (Pickersgill Kaye Limited) on the active leaf and compatible locking system 1 or 2 on the passive leaf.

ExcluDoor 3 Mk2 single leaf inward opening doorsets over 2.8 m high are only approved when they are fitted with compatible locking systems 355 to 424.
- The ExcluDoor 3 Mk2 double leaf doorset can be produced with leaves of unequal width. The maximum width of both leaves is 1.1735 m. The minimum width of active leaves approved is 0.615 m. The minimum width of passive leaves approved is 0.150 m (plain leaves) and 0.5 m (leaves incorporating vision panels).
- ExcluDoor 3 Mk3 F.R doorsets over 2.4 m high are only approved when fitted with compatible locking systems 56 to 84 (Surelock McGill Slimline systems with U1 option) on the active leaf and compatible locking system 1 on the passive leaf.

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4. The ExcluDoor 3 Mk3 F.R. double leaf doorsets can be produced with leafs 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. 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.
6. The P cylinder guard can be replaced with the GSS3 cylinder guard supplied by Surelock McGill Limited. The compatible external cylinders on doorsets incorporating the GSS3 cylinder guards are Y, AB, AC, AF to AH and AJ to AU.
7. 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.
8. Fail secure version only. The resistance of the access control locks to "non-mechanical" attack has not been assessed as it is outside the scope of LPS 1175. Likewise, the approval does not cover possible effects of any susceptibilities relating to the functionality and performance of any access control equipment that may be used to operate these locking systems. This is because the scope of access control devices and system configurations that may be used with these locking systems is "infinite". It is therefore recommended that Sunray Engineering satisfy themselves that the components used are either resistant to mechanical and other forms of tampering/abuse, or that they are suitably protected from such tampering/abuse and are resistant to any environmental conditions/interference that may cause the locking system to disengage.
9. 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.
10. The # code on the Pickersgill Kaye locking model reference represents the cylinder model (digit 9) and the electro-mechanical access control power (digit 10).
11. 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.
12. 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.
13. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.
14. The Vistamatic vision panels incorporate obscurable panels controlled by a handle on the protected side of the doorset.
15. The ExcluDoor 3 Mk2 doorsets incorporating these locking systems achieve Security Rating 2 in the minimum locked condition when used in combination with Vistamatic Sherman vision panel.
16. The ExcluDoor 3 Mk2 doorsets incorporating single point locks on the active leaf and surface mounted barrel bolts on the passive leaf would achieve Security Rating 2 in the minimum locked condition when used in combination with Vistamatic Sherman vision panel (i.e. when only one barrel bolt is engaged).
17. Doorsets fitted with either a Surelock McGill or Pickersgill Kaye locking system incorporating either a push pad or panic bar, and not incorporating a shrouding device as listed in the compatible locking system table, can be fitted with a shrouding device for aesthetic purposes.

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