

## Certificate of Product Approval

Certificate Number: 234r

Issue: 04

### Sunray Engineering Limited

Kingsnorth Industrial Estate  
Wotton Road  
Ashford  
Kent  
TN23 6LL

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

#### Product

##### ExcluDoor 2

hinged security doorsets

#### Standard

##### LPS 1175: Issue 8

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

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### Hinged Security Doorsets

Product Name	Type	Minimum Structural Opening Height (m)	Maximum Structural Opening Height (m)	Minimum Structural Opening Width (m)	Maximum Structural Opening Width (m)	Security Rating	LPCB Ref. No.
ExcluDoor 2	Single leaf outward opening doorset	0.5	3.025	0.4	1.24	B3 (SR2)	234r/01
	Double leaf outward opening doorset	0.5	3.025	0.9	2.4		

### Approved Locking Configurations

Type	Compatible Locking Systems	
	Active Leaf	Passive Leaf
Single leaf outward opening doorset	1 to 34, 36 to 241	N/A
Double leaf outward opening doorset	1 to 34, 36 to 241	27 to 35

### Compatible Locking Systems

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
1	ASSA	765	Sashlock with 70 mm backset	Key and handle	Key and lever handle	A to AE
2	ASSA	765	Sashlock with 70 mm backset	Key and handle	Thumbturn and lever handle	A to AE
3	ASSA	2788	Deadlock with 70 mm backset	Key	Key	A to AE
4	ASSA	2788	Deadlock with 70 mm backset	Key	Thumbturn	A to AE
5	Tindall Engineering Limited	Modula PE1	Single point morticed emergency exit locking system	None	Push pad	N/A
6	Tindall Engineering Limited	Modula PE2	Single point morticed panic exit locking system	None	Panic bar	N/A
7	Tindall Engineering Limited	Modula PE4	Single point morticed emergency exit locking system	None	Lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
8	Tindall Engineering Limited	Modula AD1 SATE / LSCH2	Single point morticed locking system with automatic deadlock	Key and lever handle	Push pad	DP to FG
9	Tindall Engineering Limited	Modula AD2 SATE / LSCH2	Single point morticed locking system with automatic deadlock	Key and lever handle	Panic bar	DP to FG
10	Tindall Engineering Limited	Modula AD4	Single point morticed locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
11	Tindall Engineering Limited	Modula AD4 / LSCH2	Single point morticed locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
12	Tindall Engineering Limited	Modula AD4 SATE / LSCH2	Single point morticed locking system with automatic deadlock	Key and lever handle	Lever handle	DP to FG
13	Tindall Engineering Limited	Modula EM1 SATE / LSCH2	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Push pad	DP to FG
14	Tindall Engineering Limited	Modula EM2 SATE / LSCH2	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Panic bar	DP to FG
15	Tindall Engineering Limited	Modula EM4	Single point morticed electromechanical locking system with automatic deadlock	None	Access control with key or thumbturn override and lever handle	N/A
16	Tindall Engineering Limited	Modula EM4 / LSCH2	Single point morticed electromechanical locking system with automatic deadlock	Key and lever handle	Access control with key or thumbturn override and lever handle	AF to DO
17	Tindall Engineering Limited	Modula EM4 SATE / LSCH2	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Lever handle	DP to FG

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				External Face	Internal Face	
18	Tindall Engineering Limited	Modula MD1	Single point morticed locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
19	Tindall Engineering Limited	Modula MD2	Single point morticed locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
20	Tindall Engineering Limited	Modula MD4	Single point morticed locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
21	Tindall Engineering Limited	Modula MD1 / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	AF to DO
22	Tindall Engineering Limited	Modula MD1 SATE / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Push pad	DP to FG
23	Tindall Engineering Limited	Modula MD2 / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	AF to DO
24	Tindall Engineering Limited	Modula MD2 SATE / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Panic bar	DP to FG
25	Tindall Engineering Limited	Modula MD4 / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
26	Tindall Engineering Limited	Modula MD4 SATE / LSCH2	Single point morticed locking system with manual deadlock	Key and lever handle	Lever handle	DP to FG
27	Tindall Engineering Limited	Mico 942	Two-point panic exit locking system	None	Panic bar	N/A
28	Tindall Engineering Limited	Mico 942P	Two-point emergency exit locking system	None	Push pad	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
29	Tindall Engineering Limited	Mico 942L	Two-point emergency exit locking system	None	Handle	N/A
30	Tindall Engineering Limited	Mico 942L INT AD	Two-point locking system with automatic deadlocking	None	Key or thumbturn and lever handle	N/A
31	Tindall Engineering Limited	Mico 942L INT MD	Two-point locking system with manual deadlocking	None	Key or thumbturn and lever handle	N/A
32	Tindall Engineering Limited	Mico 942 INT MD	Two-point locking system with manual deadlocking	None	Full width push pad deadlocked by a key or thumbturn	N/A
33	Tindall Engineering Limited	Mico 942P INT MD	Two-point locking system with manual deadlocking	None	Push pad deadlocked by a key or thumbturn	N/A
34	Tindall Engineering Limited	Mico 942L INT EM	Two-point electromechanical locking system with automatic deadlocking	None	Access control with thumbturn override and lever handle	N/A
35	Sunray Engineering Limited	Two Sunray surface mounted drop bolts	Surface mounted drop bolt	None	Surface mounted drop bolt	N/A
36	Tindall Engineering Limited	Mico Elite PE1	Single point emergency exit device	None	Push pad	N/A
37	Tindall Engineering Limited	Mico Elite PE2	Single point panic exit device	None	Panic bar	N/A
38	Tindall Engineering Limited	Mico Elite PE3	Single point emergency exit device	None	Lever handle	N/A
39	Tindall Engineering Limited	Mico Elite AD1 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ

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				External Face	Internal Face	
40	Tindall Engineering Limited	Mico Elite AD1 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	DP to FG
41	Tindall Engineering Limited	Mico Elite AD1 SATE	Single point emergency exit device with automatic deadlock	None	Push pad	N/A
42	Tindall Engineering Limited	Mico Elite AD2 SATE / USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
43	Tindall Engineering Limited	Mico Elite AD2 SATE EPC/ USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	DP to FG
44	Tindall Engineering Limited	Mico Elite AD2 SATE	Single point panic exit device with automatic deadlock	None	Panic bar	N/A
45	Tindall Engineering Limited	Mico Elite AD3 / USCH2	Single point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
46	Tindall Engineering Limited	Mico Elite AD3 EPC/ USCH2	Single point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
47	Tindall Engineering Limited	Mico Elite AD3	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
48	Tindall Engineering Limited	Mico Elite AD3 EPC	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
49	Tindall Engineering Limited	Mico Elite AD3 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
50	Tindall Engineering Limited	Mico Elite AD3 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	DP to FG
51	Tindall Engineering Limited	Mico Elite AD3 SATE	Single point emergency exit device with automatic deadlock	None	Lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
52	Tindall Engineering Limited	Mico Elite MD1	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
53	Tindall Engineering Limited	Mico Elite MD1 EPC	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
54	Tindall Engineering Limited	Mico Elite MD1 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
55	Tindall Engineering Limited	Mico Elite MD1 EPC/ USCH2	Single point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	AF to DO
56	Tindall Engineering Limited	Mico Elite MD1 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
57	Tindall Engineering Limited	Mico Elite MD1 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	DP to FG
58	Tindall Engineering Limited	Mico Elite MD2	Single point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
59	Tindall Engineering Limited	Mico Elite MD2 EPC	Single point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
60	Tindall Engineering Limited	Mico Elite MD2 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
61	Tindall Engineering Limited	Mico Elite MD2 EPC/ USCH2	Single point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	AF to DO
62	Tindall Engineering Limited	Mico Elite MD2 SATE / USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
63	Tindall Engineering Limited	Mico Elite MD2 SATE EPC/ USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	DP to FG
64	Tindall Engineering Limited	Mico Elite MD3	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
65	Tindall Engineering Limited	Mico Elite MD3 EPC	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
66	Tindall Engineering Limited	Mico Elite MD3 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
67	Tindall Engineering Limited	Mico Elite MD3 EPC / USCH2	Single point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
68	Tindall Engineering Limited	Mico Elite MD3 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
69	Tindall Engineering Limited	Mico Elite MD3 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	DP to FG
70	Tindall Engineering Limited	Mico Elite EM1 SATE / USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	A to Z, AB to AE, FH to GJ
71	Tindall Engineering Limited	Mico Elite EM1 SATE EPC/ USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	DP to FG
72	Tindall Engineering Limited	Mico Elite EM1 SATE	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Push pad	N/A

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				External Face	Internal Face	
73	Tindall Engineering Limited	Mico Elite EM2 SATE / USCH2	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
74	Tindall Engineering Limited	Mico Elite EM2 SATE EPC / USCH2	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	DP to FG
75	Tindall Engineering Limited	Mico Elite EM2 SATE	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Panic bar	N/A
76	Tindall Engineering Limited	Mico Elite EM3 SATE / USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
77	Tindall Engineering Limited	Mico Elite EM3 SATE EPC / USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	DP to FG
78	Tindall Engineering Limited	Mico Elite EM3 SATE	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Lever handle	N/A
79	Tindall Engineering Limited	Mico Elite EM3 / USCH2	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to AE, FH to GJ

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				External Face	Internal Face	
80	Tindall Engineering Limited	Mico Elite EM3 EPC/ USCH2	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	AF to BW
81	Tindall Engineering Limited	Mico Elite EM3	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Electro-mechanical access control device with thumbturn override and lever handle	N/A
82	Tindall Engineering Limited	Mico Abryll PE1	Single point emergency exit device	None	Push pad	N/A
83	Tindall Engineering Limited	Mico Abryll PE2	Single point panic exit device	None	Panic bar	N/A
84	Tindall Engineering Limited	Mico Abryll PE3	Single point emergency exit device	None	Lever handle	N/A
85	Tindall Engineering Limited	Mico Abryll AD1 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
86	Tindall Engineering Limited	Mico Abryll AD1 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	DP to FG
87	Tindall Engineering Limited	Mico Abryll AD1 SATE	Single point emergency exit device with automatic deadlock	None	Push pad	N/A
88	Tindall Engineering Limited	Mico Abryll AD2 SATE / USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
89	Tindall Engineering Limited	Mico Abryll AD2 SATE EPC/ USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	DP to FG

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				External Face	Internal Face	
90	Tindall Engineering Limited	Mico Abryll AD2 SATE	Single point panic exit device with automatic deadlock	None	Panic bar	N/A
91	Tindall Engineering Limited	Mico Abryll AD3 / USCH2	Single point locking system with automatic deadlock	Key and lever handle	Key or thumbturn and lever handle	A to Z, AB to AE, FH to GJ
92	Tindall Engineering Limited	Mico Abryll AD3 EPC / USCH2	Single point locking system with automatic deadlock	Key and lever handle	Key or thumbturn and lever handle	AF to DO
93	Tindall Engineering Limited	Mico Abryll AD3	Single point locking system with automatic deadlock	None	Key or thumbturn and lever handle	N/A
94	Tindall Engineering Limited	Mico Abryll AD3 EPC	Single point locking system with automatic deadlock	None	Key or thumbturn and lever handle	N/A
95	Tindall Engineering Limited	Mico Abryll AD3 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
96	Tindall Engineering Limited	Mico Abryll AD3 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	DP to FG
97	Tindall Engineering Limited	Mico Abryll AD3 SATE	Single point emergency exit device with automatic deadlock	None	Lever handle	N/A
98	Tindall Engineering Limited	Mico Abryll MD1 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
99	Tindall Engineering Limited	Mico Abryll MD1 EPC / USCH2	Single point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	AF to DO
100	Tindall Engineering Limited	Mico Abryll MD1	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
101	Tindall Engineering Limited	Mico Abryll MD1 EPC	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A

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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
102	Tindall Engineering Limited	Mico Abryll MD2 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
103	Tindall Engineering Limited	Mico Abryll MD2 EPC/ USCH2	Single point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	AF to DO
104	Tindall Engineering Limited	Mico Abryll MD2	Single point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
105	Tindall Engineering Limited	Mico Abryll MD2 EPC	Single point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
106	Tindall Engineering Limited	Mico Abryll MD3 / USCH2	Single point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
107	Tindall Engineering Limited	Mico Abryll MD3 EPC/ USCH2	Single point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
108	Tindall Engineering Limited	Mico Abryll MD3	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
109	Tindall Engineering Limited	Mico Abryll MD3 EPC	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
110	Tindall Engineering Limited	Mico Abryll MD1 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
111	Tindall Engineering Limited	Mico Abryll MD1 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	DP to FG
112	Tindall Engineering Limited	Mico Abryll MD2 SATE / USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
113	Tindall Engineering Limited	Mico Abryll MD2 SATE EPC/ USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	DP to FG
114	Tindall Engineering Limited	Mico Abryll MD3 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
115	Tindall Engineering Limited	Mico Abryll MD3 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	DP to FG
116	Tindall Engineering Limited	Mico Abryll EM1 SATE / USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	A to Z, AB to AE, FH to GJ
117	Tindall Engineering Limited	Mico Abryll EM1 SATE EPC/ USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	DP to FG
118	Tindall Engineering Limited	Mico Abryll EM1 SATE	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Push pad	N/A
119	Tindall Engineering Limited	Mico Abryll EM2 SATE / USCH2	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
120	Tindall Engineering Limited	Mico Abryll EM2 SATE EPC/ USCH2	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	DP to FG

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
121	Tindall Engineering Limited	Mico Abryll EM2 SATE	Single point panic exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Panic bar	N/A
122	Tindall Engineering Limited	Mico Abryll EM3 SATE / USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
123	Tindall Engineering Limited	Mico Abryll EM3 SATE EPC/ USCH2	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	DP to FG
124	Tindall Engineering Limited	Mico Abryll EM3 SATE	Single point emergency exit locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Lever handle	N/A
125	Tindall Engineering Limited	Mico Abryll EM3 / USCH2	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to AE, FH to GJ
126	Tindall Engineering Limited	Mico Abryll EM3 EPC/ USCH2	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	AF to BW
127	Tindall Engineering Limited	Mico Abryll EM3	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Electro-mechanical access control device with thumbturn override and lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
128	Tindall Engineering Limited	Mico Abryll EM3 EPC	Single point locking system with solenoid deadlocking and 12 V electro-mechanical access control	Electro-mechanical access control device with lever handle	Electro-mechanical access control device with thumbturn override and lever handle	N/A
129	Tindall Engineering Limited	MICO 942L INT AD / USCH2	Two-point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
130	Tindall Engineering Limited	MICO 942L INT AD EPC/ USCH2	Two-point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
131	Tindall Engineering Limited	MICO 942P INT AD SATE / USCH2	Two-point emergency exit locking system with automatic deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
132	Tindall Engineering Limited	MICO 942P INT AD SATE EPC/ USCH2	Two-point emergency exit locking system with automatic deadlock	Key and lever handle	Push pad	DP to FG
133	Tindall Engineering Limited	MICO 942P INT AD SATE	Two-point emergency exit locking system with automatic deadlock	None	Push pad	N/A
134	Tindall Engineering Limited	MICO 942 INT AD SATE / USCH2	Two-point panic exit locking system with automatic deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
135	Tindall Engineering Limited	MICO 942 INT AD SATE EPC / USCH2	Two-point panic exit locking system with automatic deadlock	Key and lever handle	Panic bar	DP to FG
136	Tindall Engineering Limited	MICO 942 INT AD SATE	Two-point panic exit locking system with automatic deadlock	None	Panic bar	N/A
137	Tindall Engineering Limited	MICO 942L INT AD SATE / USCH2	Two-point emergency exit locking system with automatic deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
138	Tindall Engineering Limited	MICO 942L INT AD SATE EPC/ USCH2	Two-point emergency exit locking system with automatic deadlock	Key and lever handle	Lever handle	DP to FG

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
139	Tindall Engineering Limited	MICO 942L INT AD SATE	Two-point emergency exit locking system with automatic deadlock	None	Lever handle	N/A
140	Tindall Engineering Limited	MICO 942 INT MD / USCH2	Two-point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
141	Tindall Engineering Limited	MICO 942 INT MD EPC/ USCH2	Two-point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	AF to DO
142	Tindall Engineering Limited	MICO 942P INT MD / USCH2	Two-point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
143	Tindall Engineering Limited	MICO 942P INT MD EPC/ USCH2	Two-point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	AF to DO
144	Tindall Engineering Limited	MICO 942L INT MD / USCH2	Two-point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
145	Tindall Engineering Limited	MICO 942L INT MD EPC/ USCH2	Two-point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
146	Tindall Engineering Limited	MICO 942P INT MD SATE / USCH2	Two-point emergency exit locking system with manual deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
147	Tindall Engineering Limited	MICO 942P INT MD SATE EPC/ USCH2	Two-point emergency exit locking system with manual deadlock	Key and lever handle	Push pad	DP to FG
148	Tindall Engineering Limited	MICO 942 INT MD SATE / USCH2	Two-point panic exit locking system with manual deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
149	Tindall Engineering Limited	MICO 942 INT MD SATE EPC/ USCH2	Two-point panic exit locking system with manual deadlock	Key and lever handle	Panic bar	DP to FG

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
150	Tindall Engineering Limited	MICO 942L INT MD SATE / USCH2	Two-point emergency exit locking system with manual deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
151	Tindall Engineering Limited	MICO 942L INT MD SATE EPC/ USCH2	Two-point emergency exit locking system with manual deadlock	Key and lever handle	Lever handle	DP to FG
152	Tindall Engineering Limited	MICO 942L INT EM / USCH2	Two-point locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to AE, FH to GJ
153	Tindall Engineering Limited	MICO 942L INT EM EPC/ USCH2	Two-point locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	AF to BW
154	Tindall Engineering Limited	MICO 942P INT EM SATE / USCH2	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
155	Tindall Engineering Limited	MICO 942P INT EM SATE EPC/ USCH2	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key and lever handle	Push pad	DP to FG
156	Tindall Engineering Limited	MICO 942P INT EM SATE	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Push pad	N/A
157	Tindall Engineering Limited	MICO 942 INT EM SATE / USCH2	Two-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	A to Z, AB to AE, FH to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
158	Tindall Engineering Limited	MICO 942 INT EM SATE EPC/ USCH2	Two-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	DP to FG
159	Tindall Engineering Limited	MICO 942 INT EM SATE	Two-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Panic bar	N/A
160	Tindall Engineering Limited	MICO 942L INT EM SATE / USCH2	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
161	Tindall Engineering Limited	MICO 942L INT EM SATE EPC/ USCH2	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	DP to FG
162	Tindall Engineering Limited	MICO 942L INT EM SATE	Two-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Lever handle	N/A
163	Tindall Engineering Limited	MICO 942-3P INT	Three-point emergency exit locking system	None	Push pad	N/A
164	Tindall Engineering Limited	MICO 942-3 INT	Three-point panic exit locking system	None	Panic bar	N/A
165	Tindall Engineering Limited	MICO 942-3L INT	Three-point emergency exit locking system	None	Lever handle	N/A
166	Tindall Engineering Limited	MICO 942-3L INT AD / USCH2	Three-point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
167	Tindall Engineering Limited	MICO 942-3L INT AD EPC/ USCH2	Three-point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
168	Tindall Engineering Limited	MICO 942-3L INT AD	Three-point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
169	Tindall Engineering Limited	MICO 942-3L INT AD EPC	Three-point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
170	Tindall Engineering Limited	MICO 942-3P INT AD SATE / USCH2	Three-point emergency exit locking system with automatic deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
171	Tindall Engineering Limited	MICO 942-3P INT AD SATE EPC/ USCH2	Three-point emergency exit locking system with automatic deadlock	Key and lever handle	Push pad	DP to FG
172	Tindall Engineering Limited	MICO 942-3P INT AD SATE	Three-point emergency exit locking system with automatic deadlock	None	Push pad	N/A
173	Tindall Engineering Limited	MICO 942-3 INT AD SATE / USCH2	Three-point panic exit device with automatic deadlocking	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
174	Tindall Engineering Limited	MICO 942-3 INT AD SATE EPC/ USCH2	Three-point panic exit device with automatic deadlocking	Key and lever handle	Panic bar	DP to FG
175	Tindall Engineering Limited	MICO 942-3 INT AD SATE	Three-point panic exit device with automatic deadlocking	None	Panic bar	N/A
176	Tindall Engineering Limited	MICO 942-3L INT AD SATE / USCH2	Three-point emergency exit locking system with automatic deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
177	Tindall Engineering Limited	MICO 942-3L INT AD SATE EPC/ USCH2	Three-point emergency exit locking system with automatic deadlock	Key and lever handle	Lever handle	DP to FG
178	Tindall Engineering Limited	MICO 942-3L INT AD SATE	Three-point emergency exit locking system with automatic deadlock	None	Lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
179	Tindall Engineering Limited	MICO 942-3 INT MD / USCH2	Three-point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
180	Tindall Engineering Limited	MICO 942-3 INT MD EPC/ USCH2	Three-point locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	AF to DO
181	Tindall Engineering Limited	MICO 942-3 INT MD	Three-point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
182	Tindall Engineering Limited	MICO 942-3 INT MD EPC	Three-point locking system with manual deadlock	None	Full width push plate deadlocked via key or thumbturn	N/A
183	Tindall Engineering Limited	MICO 942-3P INT MD / USCH2	Three-point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
184	Tindall Engineering Limited	MICO 942-3P INT MD EPC/ USCH2	Three-point locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	AF to DO
185	Tindall Engineering Limited	MICO 942-3P INT MD	Three-point locking system with manual deadlocking	None	Push pad deadlocked via key or thumbturn	N/A
186	Tindall Engineering Limited	MICO 942-3P INT MD EPC	Three-point locking system with manual deadlocking	None	Push pad deadlocked via key or thumbturn	N/A
187	Tindall Engineering Limited	MICO 942-3L INT MD / USCH2	Three-point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	A to Z, AB to AE, FH to GJ
188	Tindall Engineering Limited	MICO 942-3L INT MD EPC/ USCH2	Three-point locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	AF to DO
189	Tindall Engineering Limited	MICO 942-3L INT MD	Three-point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A

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				External Face	Internal Face	
190	Tindall Engineering Limited	MICO 942-3L INT MD EPC	Three-point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
191	Tindall Engineering Limited	MICO 942-3P INT MD SATE / USCH2	Three-point emergency exit locking system with manual deadlock	Key and lever handle	Push pad	A to Z, AB to AE, FH to GJ
192	Tindall Engineering Limited	MICO 942-3P INT MD SATE EPC / USCH2	Three-point emergency exit locking system with manual deadlock	Key and lever handle	Push pad	DP to FG
193	Tindall Engineering Limited	MICO 942-3 INT MD SATE / USCH2	Three-point panic exit locking system with manual deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
194	Tindall Engineering Limited	MICO 942-3 INT MD SATE EPC/ USCH2	Three-point panic exit locking system with manual deadlock	Key and lever handle	Panic bar	DP to FG
195	Tindall Engineering Limited	MICO 942-3L INT MD SATE / USCH2	Three-point emergency exit locking system with manual deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
196	Tindall Engineering Limited	MICO 942-3L INT MD SATE EPC/ USCH2	Three-point emergency exit locking system with manual deadlock	Key and lever handle	Lever handle	DP to FG
197	Tindall Engineering Limited	MICO 942-3L INT EM / USCH2	Three-point locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to AE, FH to GJ
198	Tindall Engineering Limited	MICO 942-3L INT EM EPC/ USCH2	Three-point locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	AF to BW

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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
199	Tindall Engineering Limited	MICO 942-3L INT EM	Three-point locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	N/A
200	Tindall Engineering Limited	MICO 942-3P INT EM SATE / USCH2	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	A to Z, AB to AE, FH to GJ
201	Tindall Engineering Limited	MICO 942-3P INT EM SATE EPC/ USCH2	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	DP to FG
202	Tindall Engineering Limited	MICO 942-3P INT EM SATE	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Push pad	N/A
203	Tindall Engineering Limited	MICO 942-3 INT EM SATE / USCH2	Three-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	A to Z, AB to AE, FH to GJ
204	Tindall Engineering Limited	MICO 942-3 INT EM SATE EPC/ USCH2	Three-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	DP to FG
205	Tindall Engineering Limited	MICO 942-3 INT EM SATE	Three-point panic exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Panic bar	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
206	Tindall Engineering Limited	MICO 942-3L INT EM SATE / USCH2	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	A to Z, AB to AE, FH to GJ
207	Tindall Engineering Limited	MICO 942-3L INT EM SATE EPC/ USCH2	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	DP to FG
208	Tindall Engineering Limited	MICO 942-3L INT EM SATE	Three-point emergency exit locking system with solenoid deadlocking and 12 V or 24 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Lever handle	N/A
209	Surelock McGill Limited	Stirling ST101-0x	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key	N/A
210	Surelock McGill Limited	Stirling ST103-0x	Single point locking system with automatic deadlock	None	Lever handle deadlocked via thumbturn	N/A
211	Surelock McGill Limited	Stirling ST104-0x	Single point panic exit locking system	None	Panic bar	N/A
212	Surelock McGill Limited	Stirling ST104-0x-Q4	Single point panic exit locking system with automatic deadlock	None	Panic bar	N/A
213	Surelock McGill Limited	Stirling ST105-0x	Single point emergency exit locking system	None	Lever handle	N/A
214	Surelock McGill Limited	Stirling ST105-0x-Q4	Single point emergency exit locking system with automatic deadlock	None	Lever handle	N/A
215	Surelock McGill Limited	Stirling ST106-0x	Single point emergency exit locking system	None	Push pad	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
216	Surelock McGill Limited	Stirling ST106-0x-Q4	Single point emergency exit locking system with automatic deadlock	None	Push pad	N/A
217	Surelock McGill Limited	Stirling ST111-0x with GSS2 guard	Single point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key	A to Z, AB to AE, BX to DO, FH to GJ
218	Surelock McGill Limited	Stirling ST113-0x with GSS2 guard	Single point locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via thumbturn	A to Z, AB to BW, FH to GJ
219	Surelock McGill Limited	Stirling ST114-0x with GSS2 guard	Single point panic exit locking system with automatic deadlock	Key and lever handle	Panic bar	A to Z, AB to AE, DP to GJ
220	Surelock McGill Limited	Stirling ST115-0x with GSS2 guard	Single point emergency exit locking system with automatic deadlock	Key and lever handle	Lever handle	A to Z, AB to AE, DP to GJ
221	Surelock McGill Limited	Stirling ST116-0x with GSS2 guard	Single point emergency exit locking system with automatic deadlock	Key and lever handle	Push pad	A to Z, AB to AE, DP to GJ
222	Surelock McGill Limited	Stirling ST121-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Electro-mechanical access control device and lever handle with internal key override	N/A
223	Surelock McGill Limited	Stirling ST121-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device and lever handle with internal key override	A to Z, AB to AE, BX to DO, FH to GJ
224	Surelock McGill Limited	Stirling ST122-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Electro-mechanical access control device and lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
225	Surelock McGill Limited	Stirling ST122-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device and lever handle	A to Z, AB to AE, DP to GJ
226	Surelock McGill Limited	Stirling ST123-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	N/A
227	Surelock McGill Limited	Stirling ST123-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to BW, FH to GJ
228	Surelock McGill Limited	Stirling ST124-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Panic bar	N/A
229	Surelock McGill Limited	Stirling ST124-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Panic bar	A to Z, AB to AE, DP to GJ
230	Surelock McGill Limited	Stirling ST125-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Lever handle	N/A
231	Surelock McGill Limited	Stirling ST125-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Lever handle	A to Z, AB to AE, DP to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
232	Surelock McGill Limited	Stirling ST126-0x	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device and lever handle	Push pad	N/A
233	Surelock McGill Limited	Stirling ST126-0x with GSS2 guard	Single point locking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device with key override and lever handle	Push pad	A to Z, AB to AE, DP to GJ
234	Surelock McGill Limited	Stirling AC850-0x	Single point motorlocking system with solenoid deadlocking and 12 V, 24 V or 50 V electro-mechanical access control	Electro-mechanical access control device	Electro-mechanical access control device	N/A
235	Surelock McGill Limited	Stirling AC850-0x-K1	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device	Electro-mechanical access control device with key override and lever handle	N/A
236	Surelock McGill Limited	Stirling AC850-0x-K9	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device	Electro-mechanical access control device with thumbturn override and lever handle	N/A
237	Surelock McGill Limited	Stirling AC850-0x-X	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device	Electro-mechanical access control device or lever handle override	N/A
238	Surelock McGill Limited	Stirling AC850-0x with GSS2 guard	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device with key and lever handle manual override	Electro-mechanical access control device	A to Z, AB to AE, DP to GJ

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
239	Surelock McGill Limited	Stirling AC850-0x-K1 with GSS2 guard	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device with key and lever handle manual override	Electro-mechanical access control device with key override and lever handle	A to Z, AB to AE, BX to DO, FH to GJ
240	Surelock McGill Limited	Stirling AC850-0x-K9 with GSS2 guard	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device with key and lever handle manual override	Electro-mechanical access control device with thumbturn override and lever handle	A to Z, AB to BW, FH to GJ
241	Surelock McGill Limited	Stirling AC850-0x-X with GSS2 guard	Single point motorised release locking system with electro-mechanical access control	Electro-mechanical access control device with key and lever handle manual override	Electro-mechanical access control device or lever handle override	A to Z, AB to AE, DP to GJ

### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	Plus Rating
A	Abloy	Novel CY201-VL	Scandinavian Oval	-
B	Abloy	Protec CY201-PT	Scandinavian Oval	-
C	Abloy	Protec2 CY201-TT	Scandinavian Oval	-
D	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval	-
E	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval	-
F	Access2	Tigris Omega	Scandinavian Oval	-
G	Access2	Tigris Plus	Scandinavian Oval	-
H	Access2	Tigris Premier	Scandinavian Oval	-
I	Access2	Tigris Premier 2	Scandinavian Oval	-
J	Access2	Tigris Premier 3	Scandinavian Oval	-
K	Assa	4401	Scandinavian Oval	-
L	Assa	4407	Scandinavian Oval	-
M	Assa	4401 Cliq / Cliq Remote	Scandinavian Oval	-
N	Assa	4407 Cliq / Cliq Remote	Scandinavian Oval	-

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Cylinder Reference	Manufacturer	Model	Type	Plus Rating
O	Assa	4801	Scandinavian Oval	-
P	Assa	4807	Scandinavian Oval	-
Q	Assa	C5801	Scandinavian Oval	-
R	Assa	C5807	Scandinavian Oval	-
S	Assa	Twin 7601	Scandinavian Oval	-
T	Assa	Twin 7607	Scandinavian Oval	-
U	iLOQ	C10S.1	Scandinavian Oval	-
V	Kaba	experT	Scandinavian Oval	-
W	Kaba	Gege RAM	Scandinavian Oval	-
X	Kaba	K20	Scandinavian Oval	-
Y	Kaba	Quattro Plus	Scandinavian Oval	-
Z	KESO	4000S	Scandinavian Oval	-
AA	Locken	CL-PL2WR	Scandinavian Oval	-
AB	Locken/ISEO	LSSA20A329M	Scandinavian Oval	-
AC	Medeco	M3-ARX	Scandinavian Oval	-
AD	Surelock McGill	CY-SN	Scandinavian Oval	-
AE	Winkhaus	VS6	Scandinavian Oval	-
AF	Abloy	Protec CY305-PT	Europrofile double (key:thumb)	+
AG	Abloy	Protec CY309-PT	Europrofile double (key:thumb)	+
AH	Abloy	Protec CY319-PT	Europrofile double (key:thumb)	+
AI	Abloy	Protec CY323-PT	Europrofile double (key:thumb)	+
AJ	Abloy	Protec CY328-PT	Europrofile double (key:thumb)	+
AK	Abloy	Protec CY333-PT	Europrofile double (key:thumb)	+
AL	Abloy	Protec CY338-PT	Europrofile double (key:thumb)	+
AM	Abloy	Protec2 CY323-TT	Europrofile double (key:thumb)	+
AN	Abloy	Protec2 CY328-TT	Europrofile double (key:thumb)	+
AO	Abloy	Protec2 CY333-TT	Europrofile double (key:thumb)	+
AP	Abloy	Protec2 CY338-TT	Europrofile double (key:thumb)	+
AQ	Abloy	Protec Cliq / Cliq Remote CY305-PT-CLIQ	Europrofile double (key:thumb) (Mechatronic)	+
AR	Abloy	Protec Cliq / Cliq Remote CY333-PT-CLIQ	Europrofile double (key:thumb) (Mechatronic)	+
AS	Abloy	Protec2 Cliq / Cliq Remote CY333-TT-CLIQ	Europrofile double (key:thumb) (Mechatronic)	+

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Cylinder Reference	Manufacturer	Model	Type	Plus Rating
AT	Abloy	Disklock Pro CY305-DP	Europrofile double (key:thumb)	+
AU	Abloy	Disklock Pro CY309-DP	Europrofile double (key:thumb)	+
AV	Abloy	Disklock Pro CY319-DP	Europrofile double (key:thumb)	+
AW	Abloy	Disklock Pro CY323-DP	Europrofile double (key:thumb)	+
AX	Abloy	Disklock Pro CY328-DP	Europrofile double (key:thumb)	+
AY	Abloy	Disklock Pro CY333-DP	Europrofile double (key:thumb)	+
AZ	Abloy	Disklock Pro CY338-DP	Europrofile double (key:thumb)	+
BA	Abloy	Novel CY323-VL	Europrofile double (key:thumb)	+
BB	Abloy	Novel CY328-VL	Europrofile double (key:thumb)	+
BC	Abloy	Novel CY333-VL	Europrofile double (key:thumb)	+
BD	Abloy	Novel CY338-VL	Europrofile double (key:thumb)	+
BE	Access2	Tigris Omega	Europrofile double (key:thumb)	+
BF	Access2	Tigris Plus	Europrofile double (key:thumb)	-
BG	Access2	Tigris Premier	Europrofile double (key:thumb)	+
BH	Access2	Tigris Premier2	Europrofile double (key:thumb)	+
BI	Access2	Tigris Premier3	Europrofile double (key:thumb)	+
BJ	ASSA	4427dp	Europrofile double (key:thumb)	+
BK	ASSA	44M27 Cliq / Cliq Remote	Europrofile double (key:thumb) (Mechatronic)	+
BL	ASSA	4827	Europrofile double (key:thumb)	-
BM	ASSA	C5827	Europrofile double (key:thumb)	+
BN	ASSA	7627	Europrofile double (key:thumb)	-
BO	ISEO	F6 extra	Europrofile double (key:thumb)	+
BP	ISEO	R11	Europrofile double (key:thumb)	+
BQ	ISEO	R50	Europrofile double (key:thumb)	+
BR	Kaba	experT	Europrofile double (key:thumb)	+
BS	Kaba	Gege RAM	Europrofile double (key:thumb)	+
BT	Kaba	Gege pExtra	Europrofile double (key:thumb)	+
BU	Kaba	Quattro PluS	Europrofile double (key:thumb)	+
BV	KESO	4000S	Europrofile double (key:thumb)	+
BW	Medeco	M3-ARX	Europrofile double (key:thumb)	+
BX	Abloy	Protec CY304-PT	Europrofile double (key:key)	+

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Cylinder Reference	Manufacturer	Model	Type	Plus Rating
BY	Abloy	Protec CY308-PT	Europrofile double (key:key)	+
BZ	Abloy	Protec CY318-PT	Europrofile double (key:key)	+
CA	Abloy	Protec CY322-PT	Europrofile double (key:key)	+
CB	Abloy	Protec CY327-PT	Europrofile double (key:key)	+
CC	Abloy	Protec CY332-PT	Europrofile double (key:key)	+
CD	Abloy	Protec CY337-PT	Europrofile double (key:key)	+
CE	Abloy	Protec2 CY322-TT	Europrofile double (key:key)	+
CF	Abloy	Protec2 CY327-TT	Europrofile double (key:key)	+
CG	Abloy	Protec2 CY332-TT	Europrofile double (key:key)	+
CH	Abloy	Protec2 CY337-TT	Europrofile double (key:key)	+
CI	Abloy	Protec Cliq / Cliq Remote CY304-PT-CLIQ	Europrofile double (key:key) (Mechatronic)	+
CJ	Abloy	Protec Cliq / Cliq Remote CY332-PT-CLIQ	Europrofile double (key:key) (Mechatronic)	+
CK	Abloy	Protec2 Cliq / Cliq Remote CY332-TT-CLIQ	Europrofile double (key:key) (Mechatronic)	+
CL	Abloy	Disklock Pro CY304-DP	Europrofile double (key:key)	+
CM	Abloy	Disklock Pro CY308-DP	Europrofile double (key:key)	+
CN	Abloy	Disklock Pro CY318-DP	Europrofile double (key:key)	+
CO	Abloy	Disklock Pro CY322-DP	Europrofile double (key:key)	+
CP	Abloy	Disklock Pro CY327-DP	Europrofile double (key:key)	+
CQ	Abloy	Disklock Pro CY332-DP	Europrofile double (key:key)	+
CR	Abloy	Disklock Pro CY337-DP	Europrofile double (key:key)	+
CS	Abloy	Novel CY322-VL	Europrofile double (key:key)	+
CT	Abloy	Novel CY327-VL	Europrofile double (key:key)	+
CU	Abloy	Novel CY332-VL	Europrofile double (key:key)	+
CV	Abloy	Novel CY337-VL	Europrofile double (key:key)	+
CW	Access2	Tigris Omega	Europrofile double (key:key)	+
CX	Access2	Tigris Plus	Europrofile double (key:key)	-
CY	Access2	Tigris Premier	Europrofile double (key:key)	+
CZ	Access2	Tigris Premier2	Europrofile double (key:key)	+
DA	Access2	Tigris Premier3	Europrofile double (key:key)	+
DB	ASSA	4422dp	Europrofile double (key:key)	+
DC	ASSA	44M22 Cliq / Cliq Remote	Europrofile double (key:key) (Mechatronic)	+

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Chris Hunt  
Verifier

12 May 2021  
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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

Cylinder Reference	Manufacturer	Model	Type	Plus Rating
DD	ASSA	4822	Europrofile double (key:key)	-
DE	ASSA	C5822	Europrofile double (key:key)	+
DF	ASSA	7622	Europrofile double (key:key)	-
DG	ISEO	F6 extra	Europrofile double (key:key)	+
DH	ISEO	R11	Europrofile double (key:key)	+
DI	ISEO	R50	Europrofile double (key:key)	+
DJ	Kaba	experT	Europrofile double (key:key)	+
DK	Kaba	Gege RAM	Europrofile double (key:key)	+
DL	Kaba	Gege pExtra	Europrofile double (key:key)	+
DM	Kaba	Quattro PluS	Europrofile double (key:key)	+
DN	KESO	4000S	Europrofile double (key:key)	+
DO	Medeco	M3-ARX	Europrofile double (key:key)	+
DP	Abloy	Protec CY303-PT	Europrofile single	+
DQ	Abloy	Protec CY307-PT	Europrofile single	+
DR	Abloy	Protec CY317-PT	Europrofile single	+
DS	Abloy	Protec CY321-PT	Europrofile single	+
DT	Abloy	Protec CY326-PT	Europrofile single	+
DU	Abloy	Protec CY331-PT	Europrofile single	+
DV	Abloy	Protec CY336-PT	Europrofile single	+
DW	Abloy	Protec2 CY321-TT	Europrofile single	+
DX	Abloy	Protec2 CY326-TT	Europrofile single	+
DY	Abloy	Protec2 CY331-TT	Europrofile single	+
DZ	Abloy	Protec2 CY336-TT	Europrofile single	+
EA	Abloy	Protec Cliq / Cliq Remote CY303-PT-CLIQ	Europrofile single (Mechatronic)	+
EB	Abloy	Protec Cliq / Cliq Remote CY331-PT-CLIQ	Europrofile single (Mechatronic)	+
EC	Abloy	Protec2 Cliq / Cliq Remote CY331-TT-CLIQ	Europrofile single (Mechatronic)	+
ED	Abloy	Disklock Pro CY303-DP	Europrofile single	+
EE	Abloy	Disklock Pro CY307-DP	Europrofile single	+
EF	Abloy	Disklock Pro CY317-DP	Europrofile single	+
EG	Abloy	Disklock Pro CY321-DP	Europrofile single	+
EH	Abloy	Disklock Pro CY326-DP	Europrofile single	+

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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

Cylinder Reference	Manufacturer	Model	Type	Plus Rating
EI	Abloy	Disklock Pro CY331-DP	Europrofile single	+
EJ	Abloy	Disklock Pro CY336-DP	Europrofile single	+
EK	Abloy	Novel CY321-VL	Europrofile single	+
EL	Abloy	Novel CY326-VL	Europrofile single	+
EM	Abloy	Novel CY331-VL	Europrofile single	+
EN	Abloy	Novel CY336-VL	Europrofile single	+
EO	Access2	Tigris Omega	Europrofile single	+
EP	Access2	Tigris Plus	Europrofile single	-
EQ	Access2	Tigris Premier	Europrofile single	+
ER	Access2	Tigris Premier2	Europrofile single	+
ES	Access2	Tigris Premier3	Europrofile single	+
ET	ASSA	4423	Europrofile single	+
EU	ASSA	44M23 Cliq / Cliq Remote	Europrofile single (Mechatronic)	+
EV	ASSA	4823	Europrofile single	-
EW	ASSA	C5823	Europrofile single	+
EX	ASSA	7623	Europrofile single	-
EY	ISEO	F6 extra	Europrofile single	+
EZ	ISEO	R11	Europrofile single	+
FA	ISEO	R50	Europrofile single	+
FB	Kaba	experT	Europrofile single	+
FC	Kaba	Gege RAM	Europrofile single	+
FD	Kaba	Gege pExtra	Europrofile single	+
FE	Kaba	Quattro PluS	Europrofile single	+
FF	KESO	4000S	Europrofile single	+
FG	Medeco	M3-ARX	Europrofile single	+
FH	Abloy	Disklock Pro CY201-DP	Scandinavian Oval	+
FI	Kaba	Gege pExtra	Scandinavian Oval	+
FJ	Videx	Cyberlock CL-OVLD	Scandinavian Oval (Mechatronic)	+
FK	Abloy	Protec CY403-PT	Rim	+
FL	Abloy	Protec CY405-PT	Rim	+
FM	Abloy	Protec2 CY403-TT	Rim	+

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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

Cylinder Reference	Manufacturer	Model	Type	Plus Rating
FN	Abloy	Protec2 CY405-TT	Rim	+
FO	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic)	+
FP	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic)	+
FQ	Abloy	Disklock Pro CY403-DP	Rim	+
FR	Abloy	Disklock Pro CY405-DP	Rim	+
FS	Abloy	Novel CY403-VL	Rim	+
FT	Abloy	Novel CY405-VL	Rim	+
FU	Access2	Tigris Omega	Rim	+
FV	Access2	Tigris Plus	Rim	-
FW	Access2	Tigris Premier	Rim	+
FX	Access2	Tigris Premier2	Rim	+
FY	Access2	Tigris Premier3	Rim	+
FZ	ASSA	4457	Rim	+
GA	ASSA	4857	Rim	-
GB	ASSA	7657	Rim	-
GC	ASSA	C5857	Rim	+
GD	Kaba	K20	Rim	-
GE	Kaba	Quattro Plus	Rim	+
GF	KESO	4000S	Rim	+
GG	Medeco	M3-ARX	Rim	+
GH	Surelock McGill	CY-RM	Rim	+
GI	Winkhaus	VS6	Rim	-
GJ	Yale	X5	Rim	+

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## Appendix to Certificate No: 234r Sunray Engineering Limited

Issue: 04

### Optional Accessories

Accessory	Description
Thresholds	45 mm high by 100 mm deep by 1.5 mm thick standard threshold
	25 mm high by 100 mm deep by 2.5 mm thick low-level with stop threshold
	18 mm high by 100 mm deep by 1.5 mm thick low-level with drop threshold
	8.5 mm high by 100 mm deep low-level threshold
Louvre vent	Louvre dimensions between 300 mm high by 200 mm wide to 2725 mm high by 910 mm wide
Vision panel	Vision panel dimensions between 100 mm high by 100 mm wide to 2725 mm high by 910 mm wide
Door viewer	Door viewer

### Notes:

1. The certification covers double leaf doorsets with leaves of equal or unequal width. The minimum width of the passive leaf is 326 mm.
2. Double leaf doorsets incorporating the Assa or Surelock McGill Stirling locking mechanisms on the active leaf can only incorporate Sunray dropbolts on the passive leaf. Double leaf doorsets incorporating all other compatible locking mechanisms on the active leaf can incorporate either the Sunray dropbolts or a Mico 942 two-point locking mechanism on the passive leaf. However, the Mico 942 mechanism shall have the same internal operation as the locking mechanism on the active leaf.
3. The low-level threshold cannot be used on doorsets incorporating a single action escape push pad or panic bar.
4. Certification does not cover the use of locks or optional design features / accessories other than those listed. Utilisation of unlisted locks/options may affect the level of security afforded by the doorset. 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.
5. The access control locks are fail secure only. The resistance of the access control locks and mechatronic cylinders to "non-mechanical" attack is not covered by this certification as they are outside the scope of LPS 1175: Issue 8. Likewise, the certification 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 / cylinders. 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 specifiers 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.
6. The doorsets are approved for installation in accordance with the instructions contained in the document titled 'Steel Door Installation, Operations and Maintenance Guide' Issue 003, dated February 2020.
7. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.

### Also Available Through:

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