

## Certificate of Product Approval

Certificate Number: 234s

Issue: 06

### 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 FR**  
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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Paul Dillon  
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## Appendix to Certificate No: 234s Sunray Engineering Limited

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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 FR	Single leaf outward opening doorset	0.5	3.235	0.4	1.360	B3 (SR2)	234s/01
	Double leaf outward opening doorset	0.5	3.235	0.9	2.760		

### Approved Locking Configurations

Type	Compatible Locking Systems	
	Active Leaf	Passive Leaf
Single leaf outward opening doorset	1 to 262	N/A
Double leaf outward opening doorset	1 to 262	226, 229, 232, 263 and 264

### Compatible Locking Systems

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
1	ASSA	765	Sashlock with 70 mm backset	Key and handle	Key and lever handle	A to AN
2	ASSA	765	Sashlock with 70 mm backset	Key and handle	Thumbturn and lever handle	A to AN
3	ASSA	2788	Deadlock with 70 mm backset	Key	Key	A to AN
4	ASSA	2788	Deadlock with 70 mm backset	Key	Thumbturn	A to AN
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

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
7	Tindall Engineering Limited	Modula PE4	Single point morticed emergency exit locking system	None	Lever handle	N/A
8	Tindall Engineering Limited	Modula AD1 SATE / ASCH	Single point morticed locking system with automatic deadlock	Key and lever handle	Push pad	FY to HY
9	Tindall Engineering Limited	Modula AD2 SATE / ASCH	Single point morticed locking system with automatic deadlock	Key and lever handle	Panic bar	FY to HY
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 / ASCH	Single point morticed locking system with automatic deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	BW to FX
12	Tindall Engineering Limited	Modula AD4 SATE / ASCH	Single point morticed locking system with automatic deadlock	Key and lever handle	Lever handle	FY to HY
13	Tindall Engineering Limited	Modula EM1 SATE / ASCH	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Push pad	FY to HY
14	Tindall Engineering Limited	Modula EM2 SATE / ASCH	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Panic bar	FY to HY
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

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				External Face	Internal Face	
16	Tindall Engineering Limited	Modula EM4 / ASCH	Single point morticed electromechanical locking system with automatic deadlock	Key and lever handle	Access control with key or thumbturn override and lever handle	BW to FX
17	Tindall Engineering Limited	Modula EM4 SATE / ASCH	Single point morticed electromechanical locking system with automatic deadlock	Access control with key override and lever handle	Lever handle	FY to HY
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 / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Push pad deadlocked via key or thumbturn	BW to FX
22	Tindall Engineering Limited	Modula MD1 SATE / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Push pad	FY to HY
23	Tindall Engineering Limited	Modula MD2 / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Full width push plate deadlocked via key or thumbturn	BW to FX

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
24	Tindall Engineering Limited	Modula MD2 SATE / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Panic bar	FY to HY
25	Tindall Engineering Limited	Modula MD4 / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Lever handle deadlocked via key or thumbturn	BW to FX
26	Tindall Engineering Limited	Modula MD4 SATE / ASCH	Single point morticed locking system with manual deadlock	Key and lever handle	Lever handle	FY to HY
27	Tindall Engineering Limited	Mico Elite PE1	Single point emergency exit device	None	Push pad	N/A
28	Tindall Engineering Limited	Mico Elite PE2	Single point panic exit device	None	Panic bar	N/A
29	Tindall Engineering Limited	Mico Elite PE3	Single point emergency exit device	None	Lever handle	N/A
30	Tindall Engineering Limited	Mico Elite AD1 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	A to BV
31	Tindall Engineering Limited	Mico Elite AD1 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	FY to HY
32	Tindall Engineering Limited	Mico Elite AD1 SATE	Single point emergency exit device with automatic deadlock	None	Push pad	N/A
33	Tindall Engineering Limited	Mico Elite AD2 SATE / USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	A to BV

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				External Face	Internal Face	
34	Tindall Engineering Limited	Mico Elite AD2 SATE EPC/ USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	FY to HY
35	Tindall Engineering Limited	Mico Elite AD2 SATE	Single point panic exit device with automatic deadlock	None	Panic bar	N/A
36	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 BV
37	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	BW to FX
38	Tindall Engineering Limited	Mico Elite AD3	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
39	Tindall Engineering Limited	Mico Elite AD3 EPC	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
40	Tindall Engineering Limited	Mico Elite AD3 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	A to BV
41	Tindall Engineering Limited	Mico Elite AD3 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	FY to HY
42	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/ Padlocks
				External Face	Internal Face	
43	Tindall Engineering Limited	Mico Elite MD1	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
44	Tindall Engineering Limited	Mico Elite MD1 EPC	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
45	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 BV, IG, IH
46	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	BW to FX
47	Tindall Engineering Limited	Mico Elite MD1 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	A to BV, IG, IH
48	Tindall Engineering Limited	Mico Elite MD1 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	FY to HY
49	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
50	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

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				External Face	Internal Face	
51	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 BV, IG, IH
52	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	BW to FX
53	Tindall Engineering Limited	Mico Elite MD2 SATE / USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	A to BV, IG, IH
54	Tindall Engineering Limited	Mico Elite MD2 SATE EPC/ USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	FY to HY
55	Tindall Engineering Limited	Mico Elite MD3	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
56	Tindall Engineering Limited	Mico Elite MD3 EPC	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
57	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 BV, IG, IH
58	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	BW to FX
59	Tindall Engineering Limited	Mico Elite MD3 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	A to BV, IG, IH

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				External Face	Internal Face	
60	Tindall Engineering Limited	Mico Elite MD3 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	FY to HY
61	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 BV, IG, IH
62	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	FY to HY
63	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
64	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 BV, IG, IH
65	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	FY to HY

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				External Face	Internal Face	
66	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
67	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 BV, IG, IH
68	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	FY to HY
69	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
70	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 BV, IG, IH

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				External Face	Internal Face	
71	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	BW to DW
72	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
73	Tindall Engineering Limited	Mico Abyrll PE1	Single point emergency exit device	None	Push pad	N/A
74	Tindall Engineering Limited	Mico Abyrll PE2	Single point panic exit device	None	Panic bar	N/A
75	Tindall Engineering Limited	Mico Abyrll PE3	Single point emergency exit device	None	Lever handle	N/A
76	Tindall Engineering Limited	Mico Abyrll AD1 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	A to BV, IG, IH
77	Tindall Engineering Limited	Mico Abyrll AD1 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Push pad	FY to HY
78	Tindall Engineering Limited	Mico Abyrll AD1 SATE	Single point emergency exit device with automatic deadlock	None	Push pad	N/A

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				External Face	Internal Face	
79	Tindall Engineering Limited	Mico Abryll AD2 SATE / USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	A to BV, IG, IH
80	Tindall Engineering Limited	Mico Abryll AD2 SATE EPC/ USCH2	Single point panic exit device with automatic deadlock	Key and lever handle	Panic bar	FY to HY
81	Tindall Engineering Limited	Mico Abryll AD2 SATE	Single point panic exit device with automatic deadlock	None	Panic bar	N/A
82	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 BV, IG, IH
83	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	BW to FX
84	Tindall Engineering Limited	Mico Abryll AD3	Single point locking system with automatic deadlock	None	Key or thumbturn and lever handle	N/A
85	Tindall Engineering Limited	Mico Abryll AD3 EPC	Single point locking system with automatic deadlock	None	Key or thumbturn and lever handle	N/A
86	Tindall Engineering Limited	Mico Abryll AD3 SATE / USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	A to BV, IG, IH
87	Tindall Engineering Limited	Mico Abryll AD3 SATE EPC/ USCH2	Single point emergency exit device with automatic deadlock	Key and lever handle	Lever handle	FY to HY
88	Tindall Engineering Limited	Mico Abryll AD3 SATE	Single point emergency exit device with automatic deadlock	None	Lever handle	N/A

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				External Face	Internal Face	
89	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 BV, IG, IH
90	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	BW to FX
91	Tindall Engineering Limited	Mico Abryll MD1	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
92	Tindall Engineering Limited	Mico Abryll MD1 EPC	Single point locking system with manual deadlock	None	Push pad deadlocked via key or thumbturn	N/A
93	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 BV, IG, IH
94	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	BW to FX
95	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

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
96	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
97	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 BV, IG, IH
98	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	BW to FX
99	Tindall Engineering Limited	Mico Abryll MD3	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
100	Tindall Engineering Limited	Mico Abryll MD3 EPC	Single point locking system with manual deadlock	None	Lever handle deadlocked via key or thumbturn	N/A
101	Tindall Engineering Limited	Mico Abryll MD1 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	A to BV, IG, IH
102	Tindall Engineering Limited	Mico Abryll MD1 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Push pad	FY to HY
103	Tindall Engineering Limited	Mico Abryll MD2 SATE / USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	A to BV, IG, IH
104	Tindall Engineering Limited	Mico Abryll MD2 SATE EPC/ USCH2	Single point panic exit device with manual deadlock	Key and lever handle	Panic bar	FY to HY

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
105	Tindall Engineering Limited	Mico Abyrll MD3 SATE / USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	A to BV, IG, IH
106	Tindall Engineering Limited	Mico Abyrll MD3 SATE EPC/ USCH2	Single point emergency exit device with manual deadlock	Key and lever handle	Lever handle	FY to HY
107	Tindall Engineering Limited	Mico Abyrll 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 BV, IG, IH
108	Tindall Engineering Limited	Mico Abyrll 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	FY to HY
109	Tindall Engineering Limited	Mico Abyrll 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
110	Tindall Engineering Limited	Mico Abyrll 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 BV, IG, IH

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
111	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	FY to HY
112	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
113	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 BV, IG, IH
114	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	FY to HY
115	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

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
116	Tindall Engineering Limited	Mico Abyrll 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 BV, IG, IH
117	Tindall Engineering Limited	Mico Abyrll 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	BW to DW
118	Tindall Engineering Limited	Mico Abyrll 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
119	Tindall Engineering Limited	Mico Abyrll 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
120	Surelock McGill Limited	Stirling ST101-0x	Single point locking system with automatic deadlock	None	Lever handle deadlocked via key	N/A
121	Surelock McGill Limited	Stirling ST103-0x	Single point locking system with automatic deadlock	None	Lever handle deadlocked via thumbturn	N/A
122	Surelock McGill Limited	Stirling ST104-0x	Single point panic exit locking system	None	Panic bar	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
123	Surelock McGill Limited	Stirling ST104-0x-Q4	Single point panic exit locking system with automatic deadlock	None	Panic bar	N/A
124	Surelock McGill Limited	Stirling ST105-0x	Single point emergency exit locking system	None	Lever handle	N/A
125	Surelock McGill Limited	Stirling ST105-0x-Q4	Single point emergency exit locking system with automatic deadlock	None	Lever handle	N/A
126	Surelock McGill Limited	Stirling ST106-0x	Single point emergency exit locking system	None	Push pad	N/A
127	Surelock McGill Limited	Stirling ST106-0x-Q4	Single point emergency exit locking system with automatic deadlock	None	Push pad	N/A
128	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 BV, DX to FX, IG, IH
129	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 DW, IG, IH
130	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 BV, FY to HY, IG, IH
131	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 BV, FY to HY, IG, IH
132	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 BV, FY to HY, IG, IH

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
133	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
134	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 BV, DX to FX, IG, IH
135	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
136	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 BV, FY to HY, IG, IH
137	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

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
138	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 DW, IG, IH
139	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
140	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 BV, FY to HY, IG, IH
141	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
142	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 BV, FY to HY, IG, IH

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				External Face	Internal Face	
143	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
144	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 BV, FY to HY, IG, IH
145	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
146	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
147	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

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				External Face	Internal Face	
148	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
149	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 BV, FY to HY, IG, IH
150	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 BV, DX to FX, IG, IH
151	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 DW, IG, IH
152	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 BV, FY to HY, IG, IH
153	Surelock McGill Limited	Stirling ST104-0x-M7	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device	Electro-mechanical access control device or panic bar	N/A

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				External Face	Internal Face	
154	Surelock McGill Limited	Stirling ST104-0x-M7 with LEO L2 cylinder guard	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or panic bar	HZ to IF
155	Surelock McGill Limited	Stirling ST105-0x-M7	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device	Electro-mechanical access control device or lever handle	N/A
156	Surelock McGill Limited	Stirling ST105-0x-M7 with LEO L2 cylinder guard	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or lever handle	HZ to IF
157	Surelock McGill Limited	Stirling ST106-0x-M7	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device	Electro-mechanical access control device or push pad	N/A
158	Surelock McGill Limited	Stirling ST106-0x-M7 with LEO L2 cylinder guard	Single-point surface-mounted emergency exit electro-mechanical motorised electric release bolting system, auto-bolting	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or push pad	HZ to IF

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				External Face	Internal Face	
159	Surelock McGill Limited	Stirling ST120-0x-H1-M7	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device	N/A
160	Surelock McGill Limited	Stirling ST120-0x-M7 with GSS2 guard	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electric release with key override and lever handle	Electro-mechanical access control device	A to BV, FY to HY, IG, IH
161	Surelock McGill Limited	Stirling ST121-0x-H1-M7	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device with internal key override and lever handle	N/A
162	Surelock McGill Limited	Stirling ST121-0x-M7 with GSS2 guard	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with internal key override and lever handle	A to BV, DX to FX, IG, IH
163	Surelock McGill Limited	Stirling ST123-0x-H1-M7	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device with thumbturn override and lever handle	N/A

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

Issue: 06

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
164	Surelock McGill Limited	Stirling ST123-0x-M7 with GSS2 guard	Single-point surface-mounted electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking3	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to DW, IG, IH
165	Surelock McGill Limited	Stirling ST124-0x-H1-M7	Single-point surface-mounted panic exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device	N/A
166	Surelock McGill Limited	Stirling ST124-0x-M7 with GSS2 guard	Single-point surface-mounted panic exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or panic bar	A to BV, FY to HY, IG, IH
167	Surelock McGill Limited	Stirling ST125-0x-H1-M7	Single-point surface-mounted emergency exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device or lever handle	N/A
168	Surelock McGill Limited	Stirling ST125-0x-M7 with GSS2 guard	Single-point surface-mounted emergency exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or lever handle	A to BV, FY to HY, IG, IH

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

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				External Face	Internal Face	
169	Surelock McGill Limited	Stirling ST126-0x-H1-M7	Single-point surface-mounted emergency exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device	Electro-mechanical access control device or push pad	N/A
170	Surelock McGill Limited	Stirling ST126-0x-M7 with GSS2 guard	Single-point surface-mounted emergency exit electro-mechanical motorised electric release lock, auto-bolting, auto-deadlocking	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device or push pad	A to BV, FY to HY, IG, IH
171	ABLOY	EL160 KE/LH	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	Lever handle	FY to HY
172	ABLOY	EL160 KE/PB	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	Panic bar	FY to HY
173	ABLOY	EL160 NAVLH	Morticed mechanical escape lock with automatic deadlocking	None	Lever handle	N/A
174	ABLOY	EL160 NA/PB	Morticed mechanical escape lock with automatic deadlocking	None	Panic bar	N/A
175	ABLOY	EL160 KE/NA	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	None	FY to HY

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
176	ABLOY	EL360 KE/LH	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	Lever handle	FY to HY
177	ABLOY	EL360 KE/PB	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	Panic bar	FY to HY
178	ABLOY	EL360 NAVLH	Morticed mechanical escape lock with automatic deadlocking	None	Lever handle	N/A
179	ABLOY	EL360 NAVPB	Morticed mechanical escape lock with automatic deadlocking	None	Panic bar	N/A
180	ABLOY	EL360 KE/NA	Morticed mechanical escape lock with automatic deadlocking	Key and lever handle	None	FY to HY
181	ABLOY	EL518 KE/LH	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Lever handle	FY to HY
182	ABLOY	EL518 KE/PB	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Panic bar	FY to HY
183	ABLOY	EL518 NAVLH	Morticed motorised escape lock with automatic deadlocking	None	Lever handle	N/A

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				External Face	Internal Face	
184	ABLOY	EL518 NA/PB	Morticed motorised escape lock with automatic deadlocking	None	Panic bar	N/A
185	ABLOY	EL518 KE/NA	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	None	FY to HY
186	ABLOY	EL518 NA/NA	Morticed motorised escape lock with automatic deadlocking	None	None	N/A
187	ABLOY	EL518 NA/KE	Morticed motorised escape lock with automatic deadlocking	None	Key and lever handle	N/A
188	ABLOY	EL520 KE/LH	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Lever handle	FY to HY
189	ABLOY	EL520 KE/PB	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Panic bar	FY to HY
190	ABLOY	EL520 NA/LH	Morticed motorised escape lock with automatic deadlocking	None	Lever handle	N/A
191	ABLOY	EL520 NA/PB	Morticed motorised escape lock with automatic deadlocking	None	Panic bar	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
192	ABLOY	EL520 KE/NA	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	None	FY to HY
193	ABLOY	EL520 NA/NA	Morticed motorised escape lock with automatic deadlocking	None	None	N/A
194	ABLOY	EL520 NA/KE	Morticed motorised escape lock with automatic deadlocking	None	Key and lever handle	N/A
195	ABLOY	EL532 KE/LH	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Lever handle	FY to HY
196	ABLOY	EL532 KE/PB	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	Panic bar	FY to HY
197	ABLOY	EL532 NA/LH	Morticed motorised escape lock with automatic deadlocking	None	Lever handle	N/A
198	ABLOY	EL532 NA/PB	Morticed motorised escape lock with automatic deadlocking	None	Panic bar	N/A
199	ABLOY	EL532 KE/NA	Morticed motorised escape lock with automatic deadlocking	Key and lever handle	None	FY to HY

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				External Face	Internal Face	
200	ABLOY	EL532 NA/NA	Morticed motorised escape lock with automatic deadlocking	None	None	N/A
201	ABLOY	EL560	Morticed solenoid escape lock and 12 V or 24 V electro-mechanical access control	Key and lever handle	Lever handle	FY to HY
202	ABLOY	EL560	Morticed solenoid escape lock and 12 V or 24 V electro-mechanical access control	Key and lever handle	Panic bar	FY to HY
203	ABLOY	EL561	Morticed solenoid lock and 12 V or 24 V electro-mechanical access control	Key and lever handle	Key and lever handle	DX to FX
204	ABLOY	EL561	Morticed solenoid lock and 12 V or 24 V electro-mechanical access control	Key and lever handle	Thumbturn and lever handle	BW to DW
205	ASSA	1520	Morticed mechanical escape sashlock with 70mm backset	Key and lever handle	Thumbturn and lever handle	A to AN
206	ASSA	1520 D/C	Morticed mechanical escape sashlock with 70mm backset	Key and lever handle	Key and lever handle	A to AN
207	ASSA	1520 S/C	Morticed mechanical escape sashlock with 70mm backset	Key and lever handle	Lever handle	A to AN
208	ASSA	1520 KE/LH	Morticed mechanical escape sashlock with 70mm backset	Key	Lever handle	A to AN

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
209	ASSA	1520 NALH	Morticed mechanical escape sashlock with 70mm backset	None	Lever handle	N/A
210	ASSA	1520/NEL	Morticed mechanical escape sashlock with 70mm backset	Key	Thumbturn and lever handle	A to AN
211	ASSA	1520/14	Morticed mechanical escape sashlock with 70mm backset	None	Key and breakdome lever handle	A to AN
212	ASSA	1520/28	Morticed mechanical escape sashlock with 70mm backset	Key and lever handle	Key and breakdome lever handle	A to AN
213	ASSA	1520/29	Morticed mechanical escape sashlock with 70mm backset	Lever handle	Key and breakdome lever handle	A to AN
214	ASSA	1520/30	Morticed mechanical escape sashlock with 70mm backset	Key and lever handle	Breakdome lever handle	A to AN
215	Tindall Engineering Limited	MICO MSR-1A PE1 or PE8 / ELK Lite2	Single point emergency exit device	Key and lever handle	Push pad	A to W, Y to AN, IH
216	Tindall Engineering Limited	MICO MSR-1A PE1 or PE8 / Mini H&S	Single point emergency exit device	Padlockable hasp & staple	Push pad	a to f
217	Tindall Engineering Limited	MICO MSR-1A PE1 or PE8	Single point emergency exit device	None	Push pad	N/A
218	Tindall Engineering Limited	MICO MSR-1A PE2 or PE6 / ELK Lite2	Single point panic exit device	Key and lever handle	Panic bar	A to W, Y to AN, IH
219	Tindall Engineering Limited	MICO MSR-1A PE2 or PE6 / Mini H&S	Single point panic exit device	Padlockable hasp & staple	Panic bar	a to f

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Issue: 06

Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
220	Tindall Engineering Limited	MICO MSR-1A PE2 or PE6	Single point panic exit device	None	Panic bar	N/A
221	Tindall Engineering Limited	MICO MSR-1A PE3 or PE4 / ELK Lite2	Single point emergency exit device	Key and lever handle	Lever handle	A to W, Y to AN, IH
222	Tindall Engineering Limited	MICO MSR-1A PE3 or PE4 / Mini H&S	Single point emergency exit device	Padlockable hasp & staple	Lever handle	a to f
223	Tindall Engineering Limited	MICO MSR-1A PE3 or PE4	Single point emergency exit device	None	Lever handle	N/A
224	Tindall Engineering Limited	MICO MSR-2A PE1 or PE8/ ELK Lite2	Two-point emergency exit device	Key and lever handle	Push pad	A to W, Y to AN, IH
225	Tindall Engineering Limited	MICO MSR-2A PE1 or PE8 / Mini H&S	Two-point emergency exit device	Padlockable hasp & staple	Push pad	a to f
226	Tindall Engineering Limited	MICO MSR-2A PE1 or PE8	Two-point emergency exit device	None	Push pad	N/A
227	Tindall Engineering Limited	MICO MSR-2A PE2 or PE6/ ELK Lite2	Two-point panic exit device	Key and lever handle	Panic bar	A to W, Y to AN, IH
228	Tindall Engineering Limited	MICO MSR-2A PE2 or PE6/ Mini H&S	Two-point panic exit device	Padlockable hasp & staple	Panic bar	a to f
229	Tindall Engineering Limited	MICO MSR-2A PE2 or PE6	Two-point panic exit device	None	Panic bar	N/A
230	Tindall Engineering Limited	MICO MSR-2A PE3 or PE4 / ELK Lite2	Two-point emergency exit device	Key and lever handle	Lever handle	A to W, Y to AN, IH

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
231	Tindall Engineering Limited	MICO MSR-2A PE3 or PE4 / Mini H&S	Two-point emergency exit device	Padlockable hasp & staple	Lever handle	a to f
232	Tindall Engineering Limited	MICO MSR-2A PE3 or PE4	Two-point emergency exit device	None	Lever handle	N/A
233	Tindall Engineering Limited	MICO MSR-3A PE1 or PE8 / ELK Lite2	Three-point emergency exit device	Key and lever handle	Push pad	A to W, Y to AN, IH
234	Tindall Engineering Limited	MICO MSR-3A PE1 or PE8 / Mini H&S	Three-point emergency exit device	Padlockable hasp & staple	Push pad	a to f
235	Tindall Engineering Limited	MICO MSR-3A PE1 or PE8	Three-point emergency exit device	None	Push pad	N/A
236	Tindall Engineering Limited	MICO MSR-3A PE2 or PE6 / ELK Lite2	Three-point panic exit device	Key and lever handle	Panic bar	A to W, Y to AN, IH
237	Tindall Engineering Limited	MICO MSR-3A PE2 or PE6 / Mini H&S	Three-point panic exit device	Padlockable hasp & staple	Panic bar	a to f
238	Tindall Engineering Limited	MICO MSR-3A PE2 or PE6	Three-point panic exit device	None	Panic bar	N/A
239	Tindall Engineering Limited	MICO MSR-3A PE3 or PE4/ ELK Lite2	Three-point emergency exit device	Key and lever handle	Lever handle	A to W, Y to AN, IH
240	Tindall Engineering Limited	MICO MSR-3A PE3 or PE4 / Mini H&S	Three-point emergency exit device	Padlockable hasp & staple	Lever handle	a to f
241	Tindall Engineering Limited	MICO MSR-3A PE3 or PE4	Three-point emergency exit device	None	Lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
242	Tindall Engineering Limited	Modula PE1/Eden	Single point morticed emergency exit locking system	Mechanical keypad and handle	Push pad	N/A
243	Tindall Engineering Limited	Modula PE2/Eden	Single point morticed panic exit locking system	Mechanical keypad and handle	Panic bar	N/A
244	Tindall Engineering Limited	Modula PE4/Eden	Single point morticed emergency exit locking system	Mechanical keypad and handle	Lever handle	N/A
245	Tindall Engineering Limited	Mico Elite PE1/Eden	Single point emergency exit device	Mechanical keypad and handle	Push pad	N/A
246	Tindall Engineering Limited	Mico Elite PE2/Eden	Single point panic exit device	Mechanical keypad and handle	Panic bar	N/A
247	Tindall Engineering Limited	Mico Elite PE3/Eden	Single point emergency exit device	Mechanical keypad and handle	Lever handle	N/A
248	Tindall Engineering Limited	Mico Abyrll PE1/Eden	Single point emergency exit device	Mechanical keypad and handle	Push pad	N/A
249	Tindall Engineering Limited	Mico Abyrll PE2/Eden	Single point panic exit device	Mechanical keypad and handle	Panic bar	N/A
250	Tindall Engineering Limited	Mico Abyrll PE3/Eden	Single point emergency exit device	Mechanical keypad and handle	Lever handle	N/A
251	Surelock McGill Limited	Stirling ST104-0x/Eden	Single point panic exit locking system	Mechanical keypad and handle	Panic bar	N/A
252	Surelock McGill Limited	Stirling ST105-0x/Eden	Single point emergency exit locking system	Mechanical keypad and handle	Lever handle	N/A

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Compatible Locking System	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders/ Padlocks
				External Face	Internal Face	
253	Surelock McGill Limited	Stirling ST106-0x/Eden	Single point emergency exit locking system	Mechanical keypad and handle	Push pad	N/A
254	Tindall Engineering Limited	MICO MSR-1A PE1 or PE8/Eden	Single point emergency exit device	Mechanical keypad and handle	Push pad	N/A
255	Tindall Engineering Limited	MICO MSR-1A PE2 or PE6/Eden	Single point panic exit device	Mechanical keypad and handle	Panic bar	N/A
256	Tindall Engineering Limited	MICO MSR-1A PE3 or PE4/Eden	Single point emergency exit device	Mechanical keypad and handle	Lever handle	N/A
257	Tindall Engineering Limited	MICO MSR-2A PE1 or PE8/Eden	Two-point emergency exit device	Mechanical keypad and handle	Push pad	N/A
258	Tindall Engineering Limited	MICO MSR-2A PE2 or PE6/Eden	Two-point panic exit device	Mechanical keypad and handle	Panic bar	N/A
259	Tindall Engineering Limited	MICO MSR-2A PE3 or PE4/Eden	Two-point emergency exit device	Mechanical keypad and handle	Lever handle	N/A
260	Tindall Engineering Limited	MICO MSR-3A PE1 or PE8/Eden	Three-point emergency exit device	Mechanical keypad and handle	Push pad	N/A
261	Tindall Engineering Limited	MICO MSR-3A PE2 or PE6/Eden	Three-point panic exit device	Mechanical keypad and handle	Panic bar	N/A
262	Tindall Engineering Limited	MICO MSR-3A PE3 or PE4/Eden	Three-point emergency exit device	Mechanical keypad and handle	Lever handle	N/A
263	Tindall Engineering Limited	Mico LSTB	Surface mounted drop bolt	None	Two surface mounted drop bolts	N/A

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				External Face	Internal Face	
264	Sunray Engineering Limited	Two Sunray surface mounted drop bolts	Surface mounted drop bolt	None	Two surface mounted drop bolt	N/A

### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
A	Abloy	Protec CY201-PT	Scandinavian Oval	+
B	Abloy	Protec2 CY201-TT	Scandinavian Oval	+
C	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval (mechatronic)	+
D	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval (mechatronic)	+
E	Abloy	Disklock Pro CY201-DP	Scandinavian Oval	+
F	Abloy	Novel CY201-VL	Scandinavian Oval	+
G	ABUS	Vitess 1000	Scandinavian Oval	-
H	ABUS	Bravus 2000	Scandinavian Oval	-
I	Access2	Tigris Omega	Scandinavian Oval	+
J	Access2	Tigris Plus	Scandinavian Oval	-
K	Access2	Tigris Premier	Scandinavian Oval	+
L	Access2	Tigris Premier 2	Scandinavian Oval	+
M	Access2	Tigris Premier 3	Scandinavian Oval	+
N	ASSA	4401	Scandinavian Oval	+
O	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (mechatronic)	+
P	ASSA	4407	Scandinavian Oval	+
Q	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (mechatronic)	+
R	ASSA	4801	Scandinavian Oval	-
S	ASSA	4807	Scandinavian Oval	-
T	ASSA	C5801	Scandinavian Oval	+

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

Issue: 06

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
U	ASSA	C5807	Scandinavian Oval	+
V	ASSA	Twin 7601	Scandinavian Oval	-
W	ASSA	Twin 7607	Scandinavian Oval	-
X	iLOQ	C10S.1	Scandinavian Oval (mechatronic)	+
Y	Kaba	experT	Scandinavian Oval	+
Z	Kaba	Gege pExtra	Scandinavian Oval	+
AA	Kaba	Gege RAM	Scandinavian Oval	+
AB	Kaba	K20	Scandinavian Oval	-
AC	Kaba	Quattro PluS	Scandinavian Oval	+
AD	KESO	4000S	Scandinavian Oval	+
AE	Locken/ISEO	LSSA20A329M	Scandinavian Oval (Mechatronic)	+
AF	Medeco	M3-ARX	Scandinavian Oval	+
AG	Mul-T-Lock	Classic Pro	Scandinavian Oval	-
AH	Mul-T-Lock	Interactive+	Scandinavian Oval	-
AI	Mul-T-Lock	Intergrator	Scandinavian Oval	-
AJ	Mul-T-Lock	MT5	Scandinavian Oval	-
AK	Mul-T-Lock	MT5+	Scandinavian Oval	-
AL	Surelock McGill	CY-SN	Scandinavian Oval	+
AM	Videx	Cyberlock CL-OVLD	Scandinavian Oval (mechatronic)	+
AN	Winkhaus	VS6	Scandinavian Oval	-
AO	Abloy	Protec CY403-PT	Rim	+
AP	Abloy	Protec CY405-PT	Rim	+
AQ	Abloy	Protec2 CY403-TT	Rim	+
AR	Abloy	Protec2 CY405-TT	Rim	+
AS	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (mechatronic)	+
AT	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (mechatronic)	+
AU	Abloy	Disclock Pro CY403-DP	Rim	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
AV	Abloy	Disclock Pro CY405-DP	Rim	+
AW	Abloy	Novel CY403-VL	Rim	+
AX	Abloy	Novel CY405-VL	Rim	+
AY	ABUS	Vitess 1000	Rim	-
AZ	ABUS	Bravus 2000	Rim	-
BA	Access2	Tigris Omega	Rim	+
BB	Access2	Tigris Plus	Rim	-
BC	Access2	Tigris Premier	Rim	+
BD	Access2	Tigris Premier 2	Rim	+
BE	Access2	Tigris Premier 3	Rim	+
BF	ASSA	4457	Rim	+
BG	ASSA	4857	Rim	-
BH	ASSA	C5857	Rim	+
BI	ASSA	7657	Rim	-
BJ	Kaba	K20	Rim	-
BK	Kaba	Quattro PluS	Rim	+
BL	KESO	4000S	Rim	+
BM	Medeco	M3-ARX	Rim	+
BN	Mul-T-Lock	Classic Pro	Rim	-
BO	Mul-T-Lock	Interactive+	Rim	-
BP	Mul-T-Lock	Intergrator	Rim	-
BQ	Mul-T-Lock	MT5	Rim	-
BR	Mul-T-Lock	MT5+	Rim	-
BS	Schlage	MC201	Rim	-
BT	Surelock McGill	CY-RM	Rim	+
BU	Winkhaus	VS6	Rim	-
BV	Yale	X5	Rim	+
BW	Abloy	Protec CY305-PT	Europrofile double cylinder (key:thumbturn)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
BX	Abloy	Protec CY309-PT	Europrofile double cylinder (key:thumbturn)	+
BY	Abloy	Protec CY319-PT	Europrofile double cylinder (key:thumbturn)	+
BZ	Abloy	Protec CY323-PT	Europrofile double cylinder (key:thumbturn)	+
CA	Abloy	Protec CY328-PT	Europrofile double cylinder (key:thumbturn)	+
CB	Abloy	Protec CY333-PT	Europrofile double cylinder (key:thumbturn)	+
CC	Abloy	Protec CY338-PT	Europrofile double cylinder (key:thumbturn)	+
CD	Abloy	Protec2 CY323-TT	Europrofile double cylinder (key:thumbturn)	+
CE	Abloy	Protec2 CY328-TT	Europrofile double cylinder (key:thumbturn)	+
CF	Abloy	Protec2 CY333-TT	Europrofile double cylinder (key:thumbturn)	+
CG	Abloy	Protec2 CY338-TT	Europrofile double cylinder (key:thumbturn)	+
CH	Abloy	Protec Cliq / Cliq Remote CY305-PT-CLIQ	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
CI	Abloy	Protec Cliq / Cliq Remote CY333-PT-CLIQ	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
CJ	Abloy	Protec2 Cliq / Cliq Remote CY333-TT-CLIQ	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
CK	Abloy	Disklock Pro CY305-DP	Europrofile double cylinder (key:thumbturn)	+
CL	Abloy	Disklock Pro CY309-DP	Europrofile double cylinder (key:thumbturn)	+
CM	Abloy	Disklock Pro CY319-DP	Europrofile double cylinder (key:thumbturn)	+
CN	Abloy	Disklock Pro CY323-DP	Europrofile double cylinder (key:thumbturn)	+
CO	Abloy	Disklock Pro CY328-DP	Europrofile double cylinder (key:thumbturn)	+
CP	Abloy	Disklock Pro CY333-DP	Europrofile double cylinder (key:thumbturn)	+
CQ	Abloy	Disklock Pro CY338-DP	Europrofile double cylinder (key:thumbturn)	+
CR	Abloy	Novel CY323-VL	Europrofile double cylinder (key:thumbturn)	+
CS	Abloy	Novel CY328-VL	Europrofile double cylinder (key:thumbturn)	+
CT	Abloy	Novel CY333-VL	Europrofile double cylinder (key:thumbturn)	+
CU	Abloy	Novel CY338-VL	Europrofile double cylinder (key:thumbturn)	+
CV	ABUS	Vitess 1000	Europrofile double cylinder (key:thumbturn)	+
CW	ABUS	Bravus 2000	Europrofile double cylinder (key:thumbturn)	-

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Issue: 06

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
CX	Access2	Tigris Omega	Europrofile double cylinder (key:thumbturn)	+
CY	Access2	Tigris Plus	Europrofile double cylinder (key:thumbturn)	-
CZ	Access2	Tigris Premier	Europrofile double cylinder (key:thumbturn)	+
DA	Access2	Tigris Premier 2	Europrofile double cylinder (key:thumbturn)	+
DB	Access2	Tigris Premier 3	Europrofile double cylinder (key:thumbturn)	+
DC	Acsys	BL	Europrofile double cylinder (key:thumbturn)	-
DD	ASSA	4427	Europrofile double cylinder (key:thumbturn)	+
DE	ASSA	44M27 Cliq / Cliq Remote	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
DF	ASSA	4827	Europrofile double cylinder (key:thumbturn)	-
DG	ASSA	C5827	Europrofile double cylinder (key:thumbturn)	+
DH	ASSA	7627	Europrofile double cylinder (key:thumbturn)	-
DI	Kaba	experT	Europrofile double cylinder (key:thumbturn)	+
DJ	Kaba	Gege pExtra	Europrofile double cylinder (key:thumbturn)	+
DK	Kaba	Gege RAM	Europrofile double cylinder (key:thumbturn)	+
DL	Kaba	Quattro PluS	Europrofile double cylinder (key:thumbturn)	+
DM	KESO	4000S	Europrofile double cylinder (key:thumbturn)	+
DN	Locken/ISEO	LMSA830309M	Europrofile double cylinder (key:thumbturn)	+
DO	Medeco	M3-ARX	Europrofile double cylinder (key:thumbturn)	+
DP	Mul-T-Lock	Classic Pro	Europrofile double cylinder (key:thumbturn)	-
DQ	Mul-T-Lock	Interactive+	Europrofile double cylinder (key:thumbturn)	-
DR	Mul-T-Lock	Intergrator	Europrofile double cylinder (key:thumbturn)	-
DS	Mul-T-Lock	MT5	Europrofile double cylinder (key:thumbturn)	-
DT	Mul-T-Lock	MT5+	Europrofile double cylinder (key:thumbturn)	-
DU	Schlage	EC903	Europrofile double cylinder (key:thumbturn)	-
DV	Surelock McGill	CY-ET	Europrofile double cylinder (key:thumbturn)	+
DW	Winkhaus	VS6	Europrofile double cylinder (key:thumbturn)	-
DX	Abloy	Protec CY304-PT	Europrofile double cylinder (key:key)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
DY	Abloy	Protec CY308-PT	Europrofile double cylinder (key:key)	+
DZ	Abloy	Protec CY318-PT	Europrofile double cylinder (key:key)	+
EA	Abloy	Protec CY322-PT	Europrofile double cylinder (key:key)	+
EB	Abloy	Protec CY327-PT	Europrofile double cylinder (key:key)	+
EC	Abloy	Protec CY332-PT	Europrofile double cylinder (key:key)	+
ED	Abloy	Protec CY337-PT	Europrofile double cylinder (key:key)	+
EE	Abloy	Protec2 CY322-TT	Europrofile double cylinder (key:key)	+
EF	Abloy	Protec2 CY327-TT	Europrofile double cylinder (key:key)	+
EG	Abloy	Protec2 CY332-TT	Europrofile double cylinder (key:key)	+
EH	Abloy	Protec2 CY337-TT	Europrofile double cylinder (key:key)	+
EI	Abloy	Protec Cliq / Cliq Remote CY304-PT-CLIQ	Europrofile double cylinder (key:key) (mechatronic)	+
EJ	Abloy	Protec Cliq / Cliq Remote CY332-PT-CLIQ	Europrofile double cylinder (key:key) (mechatronic)	+
EK	Abloy	Protec2 Cliq / Cliq Remote CY332-TT-CLIQ	Europrofile double cylinder (key:key) (mechatronic)	+
EL	Abloy	Disklock Pro CY304-DP	Europrofile double cylinder (key:key)	+
EM	Abloy	Disklock Pro CY308-DP	Europrofile double cylinder (key:key)	+
EN	Abloy	Disklock Pro CY318-DP	Europrofile double cylinder (key:key)	+
EO	Abloy	Disklock Pro CY322-DP	Europrofile double cylinder (key:key)	+
EP	Abloy	Disklock Pro CY327-DP	Europrofile double cylinder (key:key)	+
EQ	Abloy	Disklock Pro CY332-DP	Europrofile double cylinder (key:key)	+
ER	Abloy	Disklock Pro CY337-DP	Europrofile double cylinder (key:key)	+
ES	Abloy	Novel CY322-VL	Europrofile double cylinder (key:key)	+
ET	Abloy	Novel CY327-VL	Europrofile double cylinder (key:key)	+
EU	Abloy	Novel CY332-VL	Europrofile double cylinder (key:key)	+
EV	Abloy	Novel CY337-VL	Europrofile double cylinder (key:key)	+
EW	ABUS	Vitess 1000	Europrofile double cylinder (key:key)	-
EX	ABUS	Bravus 2000	Europrofile double cylinder (key:key)	-

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
EY	Access2	Tigris Omega	Europrofile double cylinder (key:key)	+
EZ	Access2	Tigris Plus	Europrofile double cylinder (key:key)	-
FA	Access2	Tigris Premier	Europrofile double cylinder (key:key)	+
FB	Access2	Tigris Premier 2	Europrofile double cylinder (key:key)	+
FC	Access2	Tigris Premier 3	Europrofile double cylinder (key:key)	+
FD	Acsys	DL	Europrofile double cylinder (key:key)	-
FE	ASSA	4422	Europrofile double cylinder (key:key)	+
FF	ASSA	44M22 Cliq / Cliq Remote	Europrofile double cylinder (key:key) (mechatronic)	+
FG	ASSA	4822	Europrofile double cylinder (key:key)	-
FH	ASSA	C5822	Europrofile double cylinder (key:key)	+
FI	ASSA	7622	Europrofile double cylinder (key:key)	-
FJ	Kaba	experT	Europrofile double cylinder (key:key)	+
FK	Kaba	Gege pExtra	Europrofile double cylinder (key:key)	+
FL	Kaba	Gege RAM	Europrofile double cylinder (key:key)	+
FM	Kaba	Quattro PluS	Europrofile double cylinder (key:key)	+
FN	KESO	4000S	Europrofile double cylinder (key:key)	+
FO	Locken/ISEO	LMSA030309M	Europrofile double cylinder (key:key)	+
FP	Medeco	M3-ARX	Europrofile double cylinder (key:key)	+
FQ	Mul-T-Lock	Classic Pro	Europrofile double cylinder (key:key)	-
FR	Mul-T-Lock	Interactive+	Europrofile double cylinder (key:key)	-
FS	Mul-T-Lock	Intergrator	Europrofile double cylinder (key:key)	-
FT	Mul-T-Lock	MT5	Europrofile double cylinder (key:key)	-
FU	Mul-T-Lock	MT5+	Europrofile double cylinder (key:key)	-
FV	Schlage	EC902	Europrofile double cylinder (key:key)	-
FW	Surelock McGill	CY-ED	Europrofile double cylinder (key:key)	+
FX	Winkhaus	VS6	Europrofile double cylinder (key:key)	-
FY	Abloy	Protec CY303-PT	Europrofile single cylinder	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
FZ	Abloy	Protec CY307-PT	Europrofile single cylinder	+
GA	Abloy	Protec CY317-PT	Europrofile single cylinder	+
GB	Abloy	Protec CY321-PT	Europrofile single cylinder	+
GC	Abloy	Protec CY326-PT	Europrofile single cylinder	+
GD	Abloy	Protec CY331-PT	Europrofile single cylinder	+
GE	Abloy	Protec CY336-PT	Europrofile single cylinder	+
GF	Abloy	Protec2 CY321-TT	Europrofile single cylinder	+
GG	Abloy	Protec2 CY326-TT	Europrofile single cylinder	+
GH	Abloy	Protec2 CY331-TT	Europrofile single cylinder	+
GI	Abloy	Protec2 CY336-TT	Europrofile single cylinder	+
GJ	Abloy	Protec Cliq / Cliq Remote CY303-PT-CLIQ	Europrofile single cylinder (mechatronic)	+
GK	Abloy	Protec Cliq / Cliq Remote CY331-PT-CLIQ	Europrofile single cylinder (mechatronic)	+
GL	Abloy	Protec2 Cliq / Cliq Remote CY331-TT-CLIQ	Europrofile single cylinder (mechatronic)	+
GM	Abloy	Disklock Pro CY303-DP	Europrofile single cylinder	+
GN	Abloy	Disklock Pro CY307-DP	Europrofile single cylinder	+
GO	Abloy	Disklock Pro CY317-DP	Europrofile single cylinder	+
GP	Abloy	Disklock Pro CY321-DP	Europrofile single cylinder	+
GQ	Abloy	Disklock Pro CY326-DP	Europrofile single cylinder	+
GR	Abloy	Disklock Pro CY331-DP	Europrofile single cylinder	+
GS	Abloy	Disklock Pro CY336-DP	Europrofile single cylinder	+
GT	Abloy	Novel CY321-VL	Europrofile single cylinder	+
GU	Abloy	Novel CY326-VL	Europrofile single cylinder	+
GV	Abloy	Novel CY331-VL	Europrofile single cylinder	+
GW	Abloy	Novel CY336-VL	Europrofile single cylinder	+
GX	ABUS	Vitess 1000	Europrofile single cylinder	-
GY	ABUS	Bravus 2000	Europrofile single cylinder	-
GZ	Access2	Tigris Omega	Europrofile single cylinder	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
HA	Access2	Tigris Plus	Europrofile single cylinder	-
HB	Access2	Tigris Premier	Europrofile single cylinder	+
HC	Access2	Tigris Premier 2	Europrofile single cylinder	+
HD	Access2	Tigris Premier 3	Europrofile single cylinder	+
HE	Acsys	SL	Europrofile single cylinder	-
HF	ASSA	4423	Europrofile single cylinder	+
HG	ASSA	44M23 Cliq / Cliq Remote	Europrofile single cylinder (mechatronic)	+
HH	ASSA	4823	Europrofile single cylinder	-
HI	ASSA	C5823	Europrofile single cylinder	+
HJ	ASSA	7623	Europrofile single cylinder	-
HK	Kaba	experT	Europrofile single cylinder	+
HL	Kaba	Gege pExtra	Europrofile single cylinder	+
HM	Kaba	Gege RAM	Europrofile single cylinder	+
HN	Kaba	Quattro PluS	Europrofile single cylinder	+
HO	KESO	4000S	Europrofile single cylinder	+
HP	Locken/ISEO	LMSA030109M	Europrofile single cylinder	+
HQ	Medeco	M3-ARX	Europrofile single cylinder	+
HR	Mul-T-Lock	Classic Pro	Europrofile single cylinder	-
HS	Mul-T-Lock	Interactive+	Europrofile single cylinder	-
HT	Mul-T-Lock	Intergrator	Europrofile single cylinder	-
HU	Mul-T-Lock	MT5	Europrofile single cylinder	-
HV	Mul-T-Lock	MT5+	Europrofile single cylinder	-
HY	Schlage	EC901	Europrofile single cylinder	-
HX	Surelock McGill	CY-ES	Europrofile single cylinder	+
HY	Winkhaus	VS6	Europrofile single cylinder	-
HZ	Abloy	CY404 Disklock Pro (DP)	Screw-in	-
IA	Abloy	CY404 Protec (PT)	Screw-in	-
IB	Assa	4851	Screw-in	-

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating
IC	Assa	C5851	Screw-in	-
ID	Bramah	C17SI	Screw-in	-
IE	Kaba	K207.203 C5-SC	Screw-in	-
IF	Medeco	M3ARX MOTC-1001	Screw-in	-
IG	iLOQ	C10S.1	Scandinavian Oval (mechatronic)	+
IH	iLOQ	C50.211.SD	Finnish Round	+

### Compatible Padlocks

Padlock Reference	Padlock		Cylinder	
	Manufacturer	Model	Manufacturer	Model
a	Abloy	PL340/25	Abloy	High Profile
			Abloy	Novel
			Abloy	Disklock Pro
			Abloy	Protec
			Abloy	Protec 2
			Abloy	Sentry
b	Abloy	PL342	Abloy	High Profile
			Abloy	Novel
			Abloy	Disklock Pro
			Abloy	Protec
			Abloy	Protec 2
			Abloy	Sentry
c	Squire	SS50S	Squire	6 pin
d	Squire	SS50S Inigma	Squire	Inigma
e	Squire	SS65S LEV3	Squire	6 pin
f	Squire	SS65S LEV3 Inigma	Squire	Inigma

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10 May 2023  
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## Appendix to Certificate No: 234s Sunray Engineering Limited

Issue: 06

### Optional Accessories

Accessory	Description
Thresholds	Various stepped and low-level thresholds
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 Abloy, Assa or Surelock McGill Stirling locking mechanisms on the active leaf can only incorporate Mico or Sunray dropbolts on the passive leaf. Double leaf doorsets incorporating all other compatible locking mechanisms on the active leaf can incorporate either the Mico or Sunray dropbolts, or a Mico MSR two-point locking mechanism on the passive leaf. However, the Mico MSR mechanism shall have the same internal operation as the locking mechanism on the active leaf.
3. The Abloy moterised mortice locks are operated via an access control device in addition to the manual operating devices where applicable.
4. The low-level threshold cannot be used on doorsets incorporating a single action escape push pad or panic bar.
5. Certification does not cover the use of locks, padlocks, cylinders or optional design features / accessories other than those listed. Utilisation of unlisted locks, padlocks, cylinders/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.
6. 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
7. 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.
8. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.

This certificate and appendix is maintained and held in force through regular surveillance activities

*P. Dillon*

Signed for BRE Global Ltd.

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