

Certificate of Product Approval

Certificate Number: 1284a

Issue: 04

Metador

Britannia House
John Boyle Road
Middlesbrough
TS6 6TY

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

Products

Defender Xtreme 1
Defender Xtreme 2
Defender Xtreme 3
hinged security doorsets

Standard

LPS 1175: Issue 7
Requirements and testing procedures for the LPCB approval and listing of intruder resistant building components, strongpoints, security enclosures and free-standing barriers

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4 February 2020
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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.
Defender Xtreme 1	Single leaf outward opening hinged security doorset	1.8	2.44	0.6	1.44	1	1284a/01
	Double leaf outward opening hinged security doorset ¹	1.8	2.44	1.1	2.8		
	Single leaf outward opening hinged security doorset incorporating overpanels ²	2.29	3.44	0.6	1.44		
	Double leaf outward opening hinged security doorset incorporating overpanels ^{1,2}	2.29	3.44	1.1	2.8		
Defender Xtreme 2	Single leaf outward opening hinged security doorset	1.8	2.44	0.6	1.44	2	1284a/02
	Double leaf outward opening hinged security doorset ¹	1.8	2.44	1.1	2.8		
	Single leaf outward opening hinged security doorset incorporating overpanels ²	2.29	3.44	0.75	1.3		
	Double leaf outward opening hinged security doorset incorporating overpanels ^{1,2}	2.29	3.44	1.5	2.2		
Defender Xtreme 3	Single leaf outward opening hinged security doorset	1.5	3.06	0.75	1.4	3 ³	1284a/03
	Double leaf outward opening hinged security doorset ¹	1.5	3.06	1.5	2.51		

Approved Locking Configurations

Product Name	Type	Compatible Locking Systems	
		Active Leaf	Passive Leaf
Defender Xtreme 1	Single leaf outward opening hinged security doorset	29 to 37	-
	Double leaf outward opening hinged security doorset	29 to 33, 36 and 37	30 ⁴ , 31 ⁴ , 38 or 39
	Single leaf outward opening hinged security doorset incorporating overpanels	29 and 32 to 37	-
	Double leaf outward opening hinged security doorset incorporating overpanels	29, 32, 33, 36 and 37	38

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Product Name	Type	Compatible Locking Systems	
		Active Leaf	Passive Leaf
Defender Xtreme 2	Single leaf outward opening hinged security doorset	1 to 27	N/A
	Double leaf outward opening hinged security doorset	1 to 27	8 ⁵ or 28
	Single leaf outward opening hinged security doorset incorporating overpanels	1 to 4 and 9 to 27	N/A
	Double leaf outward opening hinged security doorset incorporating overpanels	1 to 4 and 9 to 27	28
Defender Xtreme 3	Single leaf outward opening hinged security doorset	40 to 52	N/A
	Double leaf outward opening hinged security doorset	40 to 52	53

Compatible Locking Systems

Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
1	Assa	765	Single-point mortice sash lock	Key and handle	Key and handle	AO
2	Assa	765	Single-point mortice sash lock	Key and handle	Thumbturn and handle	AN
3	Assa	2788	Single-point mortice dead lock	Key	Key	AO
4	Assa	2788	Single-point mortice dead lock	Key	Thumbturn	AN
5	Exidor	803	Three-point panic exit locking system ⁶	None	Panic bar	N/A
6	Exidor	803 with 809	Three-point panic exit locking system with external access device ⁶	Key and turn knob (Exidor 809)	Panic bar	BF
7	Exidor	803 with 810	Three-point panic exit locking system with external access device ⁶	Key and handle (Exidor 810)	Panic bar	BF
8	Exidor	802	Two-point panic exit locking system	None	Panic bar	N/A
9	Surelock McGill Limited	Stirling ST101	Single-point locking system	None	Key and lever handle	N/A
10	Surelock McGill Limited	Stirling ST103 ⁷	Single-point locking system	None	Thumbturn and lever handle	N/A
11	Surelock McGill Limited	Stirling ST104	Single-point emergency exit locking system ⁶	None	Panic bar	N/A

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
12	Surelock McGill Limited	Stirling ST105	Single-point emergency exit locking system	None	Handle	N/A
13	Surelock McGill Limited	Stirling ST105-H3	Single-point emergency exit locking system	None	Push pad	N/A
14	Surelock McGill Limited	Stirling ST111-P ⁸	Single-point locking system	Key and lever handle	Key and lever handle	A to L, R to U, W to AN, AP to AS or AW to BD
15	Surelock McGill Limited	Stirling ST113-P ^{7,8}	Single-point locking system	Key and lever handle	Thumbturn and lever handle	A to L, R to U, W to AN, AP to AS or AW to BD
16	Surelock McGill Limited	Stirling ST114-P ⁸	Single-point emergency exit locking system ⁶	Key and lever handle	Panic bar	A to L, R to U, W to AN, AP to AS or AW to BD
17	Surelock McGill Limited	Stirling ST115-P ⁸	Single-point emergency exit locking system	Key and lever handle	Lever handle	A to L, R to U, W to AN, AP to AS or AW to BD
18	Surelock McGill Limited	Stirling ST115-P-H3 ⁸	Single-point emergency exit locking system	Key and lever handle	Push pad	A to L, R to U, W to AN, AP to AS or AW to BD
19	Surelock McGill Limited	Stirling ST121-H1	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	None	Access control and handle with key override	N/A
20	Surelock McGill Limited	Stirling ST121-P-K13 ⁸	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	Handle plus external access control entry device with key override	Access control and handle with key override	A to L, R to U, W to AN, AP to AS or AW to BD

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				External Face	Internal Face	
21	Surelock McGill Limited	Stirling ST122-H1	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	None	Access control and handle	N/A
22	Surelock McGill Limited	Stirling ST122-P-K13 ⁸	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	Handle plus external access control entry device with key override	Access control and handle	A to L, R to U, W to AN, AP to AS or AW to BD
23	Surelock McGill Limited	Stirling ST123-H1 ⁷	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	None	Access control and handle with thumbturn override	N/A
24	Surelock McGill Limited	Stirling ST123-P-K13 ^{7,8}	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	Handle plus external access control entry device with key override	Access control and handle with thumbturn override	A to L, R to U, W to AN, AP to AS or AW to BD
25	Surelock McGill Limited	Stirling ST124-P-K13 ⁸	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ^{6,9}	Handle plus external access control entry device with key override	Panic bar	A to L, R to U, W to AN, AP to AS or AW to BD
26	Surelock McGill Limited	Stirling ST125-P-K13 ⁸	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	Handle plus external access control entry device with key override	Lever handle	A to L, R to U, W to AN, AP to AS or AW to BD
27	Surelock McGill Limited	Stirling ST125-P-H3-K13 ⁸	Single-point electro-mechanical access control lock powered by 12 V, 24 V or 50 V solenoid ⁹	Handle plus external access control entry device with key override	Push pad	A to L, R to U, W to AN, AP to AS or AW to BD
28	Exidor	HS923/10	Tower bolt	None	Tower bolt	N/A

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				External Face	Internal Face	
29	Exidor	301	Mortice latch panic bar actuator ⁶	Key and 'D' pull handle (no lever handle fitted)	Panic bar	BE
	Zero	7250	Mortice night latch			
	idc	200	External europrofile cylinder escutcheon			
30	Exidor	294	Two-point panic exit locking system ⁶	None	Panic bar	N/A
31	idc	737	Two-point panic exit locking system ⁶	None	Panic bar	N/A
32	Nemef	1749/47	Single-point emergency exit mortice sash lock	Key and 'D' pull handle (no lever handle fitted)	Lever handle	BG or BH
	Nemef	1742/09	Slave mortice deadbolts (two off)			
	idc	200	External europrofile cylinder escutcheon			
33	Nemef	1749/09	Single-point mortice sash lock	Key and lever handle	Key/thumbturn and lever handle	BG or BH
	Nemef	1742/09	Slave mortice deadbolts (two off)			
	idc	200	External europrofile cylinder escutcheon			
34	Nemef	1749/47	Single-point emergency exit mortice sash lock	Key and 'D' pull handle	Lever handle	BG or BH
	idc	200	External europrofile cylinder escutcheon			
35	Nemef	1749/09	Single-point mortice sash lock	Key and lever handle	Key/thumbturn and lever handle	BG or BH
	idc	200	External europrofile cylinder escutcheon			
36	Zero	7210	Single-point mortice sash lock	Key and lever handle	Key/thumbturn and lever handle	BG or BH
	idc	200	External europrofile cylinder escutcheon			

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				External Face	Internal Face	
37	Zero	7230	Single-point mortice dead lock	Key and 'D' pull handle	Key/thumbturn	BG or BH
	idc	200	External europrofile cylinder escutcheon			
38	idc	60MT	Monkey tail bolt	None	Bolt lever	N/A
39	Mazak	Z001.1S	Flush bolt	None	Bolt lever	N/A
40	Hooply	Cefiro FTB-31#	Multi-point morticed locking system	Key via LSCH3 and lever handle	Key and lever handle	BI
41	Tindall Engineering Limited	Mico Abyrll AD1 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Push pad deadlocked by a key or thumbturn ¹⁰	A to AN or AP to BD
42	Tindall Engineering Limited	Mico Abyrll AD1 SATE / USCH3	Single-point locking system with automatic deadlock	Key and handle	Push pad	A to AN or AP to BD
43	Tindall Engineering Limited	Mico Abyrll AD2 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Full width push pad deadlocked by a key or thumbturn ¹⁰	A to AN or AP to BD
44	Tindall Engineering Limited	Mico Abyrll AD2 SATE / USCH3	Single-point locking system with automatic deadlock	Key and handle	Full width push pad	A to AN or AP to BD
45	Tindall Engineering Limited	Mico Abyrll AD3 / USCH3	Single-point locking system with automatic deadlock	Key and handle	Key or thumbturn and handle	A to AN or AP to BD
46	Tindall Engineering Limited	Mico Abyrll AD3 SATE / USCH3	Single-point locking system with automatic deadlock	Key and handle	Lever handle	A to AN or AP to BD
47	Tindall Engineering Limited	Mico Abyrll MD1 / USCH3	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key or thumbturn ¹⁰	A to AN or AP to BD
48	Tindall Engineering Limited	Mico Abyrll MD1 SATE / USCH3	Single-point locking system with manual deadlock	Key and handle	Push pad	A to AN or AP to BD
49	Tindall Engineering Limited	Mico Abyrll MD2 / USCH3	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key or thumbturn ¹⁰	A to AN or AP to BD

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				External Face	Internal Face	
50	Tindall Engineering Limited	Mico Abyrll MD2 SATE / USCH3	Single-point locking system with manual deadlock	Key and handle	Full width push pad	A to AN or AP to BD
51	Tindall Engineering Limited	Mico Abyrll MD3 / USCH3	Single-point locking system with manual deadlock	Key and handle	Key or thumbturn and handle	A to AN or AP to BD
52	Tindall Engineering Limited	Mico Abyrll MD3 SATE / USCH3	Single-point locking system with manual deadlock	Key and handle	Lever handle	A to AN or AP to BD
53	Tindall Engineering Limited	HSTB	Two tower bolts	None	Tower bolts	N/A

Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹¹
A	Abloy	Disclock Pro CY403-DP	Rim	+
B	Abloy	Disclock Pro CY405-DP	Rim	+
C	Abloy	Novel CY403-VL	Rim	+
D	Abloy	Novel CY405-VL	Rim	+
E	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic) ¹²	+
F	Abloy	Protec CY403-PT	Rim	+
G	Abloy	Protec CY405-PT	Rim	+
H	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic) ¹²	+
I	Abloy	Protec2 CY403-TT	Rim	+
J	Abloy	Protec2 CY405-TT	Rim	+
K	Assa	4857	Rim	
L	Assa	C5857	Rim	+
M	Assa	Twin-Combi C5851	Rim	+
N	Bramah	C17	Rim	
O	ISEO	F6 extra	Rim	+
P	ISEO	R11	Rim	+
Q	ISEO	R50	Rim	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹¹
R	Kaba	K20	Rim	
S	Kaba	Quattro Plus	Rim	+
T	KESO	4000S	Rim	+
U	Medeco	M3ARX	Rim	+
V	Yale	X5	Rim	+
W	Abloy	Disklock Pro CY201-DP	Scandinavian Oval	+
X	Abloy	Novel CY201-VL	Scandinavian Oval	+
Y	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval (Mechatronic) ¹²	+
Z	Abloy	Protec CY201-PT	Scandinavian Oval	+
AA	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval (Mechatronic) ¹²	+
AB	Abloy	Protec2 CY201-TT	Scandinavian Oval	+
AC	Access2	Tigris Omega	Scandinavian Oval	+
AD	Access2	Tigris Plus	Scandinavian Oval	
AE	Access2	Tigris Premier	Scandinavian Oval	+
AF	Access2	Tigris Premier2	Scandinavian Oval	+
AG	Access2	Tigris Premier3	Scandinavian Oval	+
AH	ASSA	4801	Scandinavian Oval	
AI	ASSA	4807	Scandinavian Oval	
AJ	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic) ¹²	+
AK	ASSA	4401dp	Scandinavian Oval	+
AL	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic) ¹²	+
AM	ASSA	4407dp	Scandinavian Oval	+
AN	Assa	C5801	Scandinavian Oval	+
AO	Assa	C5802	Scandinavian Oval	+
AP	ASSA	C5807	Scandinavian Oval	+
AQ	ASSA	Twin 7601	Scandinavian Oval	
AR	ASSA	Twin 7607	Scandinavian Oval	
AS	iLOQ	C10S.1	Scandinavian Oval (Mechatronic) ¹²	+
AT	ISEO	F6 extra	Scandinavian Oval	+
AU	ISEO	R11	Scandinavian Oval	+
AV	ISEO	R50	Scandinavian Oval	+
AW	Kaba	experT	Scandinavian Oval	+
AX	Kaba	Gege pExtra	Scandinavian Oval	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating ¹¹
AY	Kaba	Gege RAM	Scandinavian Oval	+
AZ	Kaba	K20	Scandinavian Oval	
BA	Kaba	Quattro PluS	Scandinavian Oval	+
BB	KESO	4000S	Scandinavian Oval	+
BC	Locken	CL-PL2WR	Scandinavian Oval (Mechatronic) ¹²	+
BD	Medeco	M3-ARX	Scandinavian Oval	+
BE	CISA	Astral 45 mm	Single europrofile cylinder	+
BF	Exidor	P3011	Single europrofile cylinder	
BG	CISA	Astral S 35/35	Double europrofile cylinder (key:key)	+
BH	CISA	Astral S 35/35	Double europrofile cylinder (key:thumbturn)	+
BI	Kaba	Quattro PluS	Double europrofile cylinder (key:key)	+

Optional Design Features/Accessories

Accessory	Description	Compatible Doorsets			Compatible Locking Systems
		Defender Xtreme 1	Defender Xtreme 2	Defender Xtreme 3	
Door viewer	Door viewer located in the top half of the leaf.	✓	✗	✗	29 to 39
D pull handles	Pull handles located on the external face of the leaf.	✓	✗	✗	29 to 39
Vistamatic Chieftain vision panel ^{13,14}	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	✗	✓	✗	1, 3, 9, 14 and 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	✗	✓	✗	1, 3, 9, 14 and 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	✗	✓	✗	1, 3, 9, 14 and 28
Vistamatic Sherman vision panel ^{13,14}	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	✗	✓	✗	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	✗	✓	✗	1 to 28

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Accessory	Description	Compatible Doorsets			Compatible Locking Systems
		Defender Xtreme 1	Defender Xtreme 2	Defender Xtreme 3	
Vistamatic Sherman vision panel ^{13,14} (continued)	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	x	✓	x	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
Tyneside AB26 vision panel ¹³	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf.	x	✓	x	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the bottom half of the leaf.	x	✓	x	1 to 28
	Vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top and bottom halves of the leaf.	x	✓	x	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
Louvre vent ¹³	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the top half of the leaf.	x	✓	x	1 to 28
	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	x	✓	x	1 to 28
	Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the top and bottom halves of the leaf.	x	✓	x	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
	Louvre dimensions between 305 mm high by 305 mm wide to 1025 mm high by 800 mm wide located in the top half of the leaf.	x	x	✓ ¹⁵	40, 41, 43, 45, 47, 49 and 51
	Louvre dimensions between 305 mm high by 305 mm wide to 1025 mm high by 800 mm wide located in the bottom half of the leaf.	x	x	✓ ¹⁵	40, 41, 43, 45, 47, 49 and 51
	Louvre dimensions between 305 mm high by 305 mm wide to 1025 mm high by 800 mm wide located in the top and bottom halves of the leaf.	x	x	✓ ¹⁵	40, 41, 43, 45, 47, 49 and 51

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Appendix to Certificate No: 1284a Metador

Issue: 04

Accessory	Description	Compatible Doorsets			Compatible Locking Systems
		Defender Xtreme 1	Defender Xtreme 2	Defender Xtreme 3	
Combinations of vision panels and louvre vents ¹³	Vistamatic Chieftain vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	x	✓	x	1, 3, 9, 14 and 28
	Vistamatic Sherman vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	x	✓	x	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
	Tyneside AB26 vision panel dimensions between 100 mm high by 100 mm wide to 400 mm high by 400 mm wide located in the top half of the leaf. Louvre dimensions between 305 mm high by 305 mm wide to 963 mm high by 605 mm wide located in the bottom half of the leaf.	x	✓	x	1 to 4, 9, 10, 12 to 15, 17 to 24 and 26 to 28
Alternative thresholds	Extruded aluminium 'G' type threshold fitted instead of galvanised steel 'H' type threshold.	x	x	✓	40 to 53
	Optional extruded aluminium 564A or CDT95 thresholds.	✓	✓	x	1 to 39

Notes:

1. The Defender Xtreme 1 and Defender Xtreme 2 double leaf doorsets may incorporate leaves of equal or unequal width. Leaves of unequal width will comprise of an active leaf that is twice as wide as the passive leaf. The maximum leaf width is 1.35 m and the minimum leaf width is 0.5 m. The Defender Xtreme 3 double leaf doorsets may only incorporate leaves of equal width.
2. The maximum overpanel height from the centre of the transom to the top of the frame is 1 m. The minimum overpanel height from the centre of the transom to the top of the frame is 0.49 m. The maximum and minimum heights of the doorset element, up to the centre of the transom, are the same as the approved doorsets that do not incorporate overpanels. The overpanel may be fixed, removable or hinged.
3. A Security Rating 1 classification prevails when the doorsets are placed in the minimum locked condition.
4. This locking may only be used on the passive leaf if locking systems 29, 30 or 31 are used on the active leaf.
5. This locking system may only be used on the passive leaf if locking systems 5, 6 or 7 are used on the active leaf.
6. Locking systems 5, 6, 7, 11, 16, 25, 29, 30 or 31 may not comply with fire escape regulations relating to potential panic situations if fitted to double leaf doorsets. This is because activation of the device on one leaf may not necessarily release the other leaf and in some cases may not release the leaf to which it is fitted.
7. The K4 break dome can be used without undermining the security rating afforded by the doorset.
8. The 'P' option code relates to the use of the P20 or P21 options, i.e. the GSS2 cylinder guards for Rim or Scandinavian oval cylinders.
9. Fail secure version only. The resistance of the access control locks to "non-mechanical" attack has not been assessed as it is outside the scope of LPS 1175. Likewise, the approval does not cover possible effects of any susceptibilities relating to the functionality and performance of any access control equipment that may be used to operate these locking systems. This is because the scope of access

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P. Dillon

Signed for BRE Global Ltd.

Paul Dillon
Verifier

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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.

10. Although outside the scope of LPS 1175: Issue 7, special consideration should be paid to the use of 'emergency exit' locking systems with separate deadlocks, e.g. Mico Abyll AD2. This is because it is generally not acceptable to separately deadlock a doorset that is fitted with a panic or emergency exit device unless the deadlock is automatically released by the action of the panic or exit device. For further information, please refer to the appropriate standards for emergency and panic exit devices, i.e. BS EN 179 and BS EN 1125 respectively.
11. A 'Plus' rating demonstrates the cylinder meets the requirements defined in Annex A of BS 3621:2007 or manipulation resistance class '1' defined in LPS 1242: Issue 2.
12. The resistance of the mechatronic cylinders to "non-mechanical" attack has not been assessed as it is outside the scope of LPS 1175. Likewise, the approval does not cover possible effects of any susceptibilities relating to the functionality and performance of ancillary equipment that may be used in conjunction with those cylinders. It is therefore recommended that specifiers satisfy themselves that the components used are either resistant to electronic methods of attack, or that they are suitably protected from such tampering/abuse and are resistant to any environmental conditions/interference that may cause the locking system to disengage.
13. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.
14. The Vistamatic vision panels incorporate obscurable panels controlled by a handle on the protected side of the doorset.
15. The louvre vents are only compatible when locking systems 41, 43, 45, 47, 49 and 51 are deadlocked with a key on the internal face. They are not compatible when locking systems 41, 43, 45, 47, 49 and 51 are deadlocked by a thumbturn on the internal face.
16. This approval only covers the Defender Xtreme doorsets when supplied with the 'h' type threshold.
17. This approval covers the Defender Xtreme doorsets with bolted or pre-fabricated frame options.
18. The Defender Xtreme 1 doorsets are approved for installation into timber, brick, blockwork, concrete and steelwork structures in accordance with the instructions contained in the document titled 'SR1-15' (Issue 1, dated April 2011).
19. The Defender Xtreme 2 doorsets are approved for installation into timber, brick, blockwork, concrete and steelwork structures in accordance with the instructions contained in the document titled 'SR2-15' (Issue 1, dated December 2009).
20. The Defender Xtreme 3 doorsets are approved for installation into brick, blockwork, concrete and steelwork structures in accordance with the instructions contained in the document titled 'SR3-21' (Issue 6, dated June 2015).

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