

## Certificate of Product Approval

Certificate Number: 450ac

Issue: 01

### Technocover Limited (Incorporating TechnoRail & Strataform)

Henfaes Lane  
Welshpool  
Powys  
SY21 7BE



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

**Sentinel Lite 2**  
hinged security doorsets

#### Standard

**LPS 1175: Issue 8**  
Requirements and testing procedures for the LPCB certification and listing of intruder resistant building components, strongpoints, security enclosures and free-standing barriers

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Paul Dillon  
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26 January 2021  
Date of Issue

26 January 2021  
Date of First Issue



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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.
Sentinel Lite 2	Single leaf outward opening hinged security doorset	1.3	2.41	0.5	1.2	B3 (SR2)	450ac/01
	Double leaf outward opening hinged security doorset	1.3	2.41	1.2	2.3		
	Single leaf outward opening padlockable hinged security doorset	1.3	2.41	0.5	1.2		
	Double leaf outward opening padlockable hinged security doorset	1.3	2.41	1.2	2.3		

### Approved Locking Configurations

Type	Compatible Locking Systems	Compatible Padlocks
Single leaf outward opening hinged security doorset	EL1, EL2, EL3, EL4, EL5, EL6, EL7, EL21, EL22, EL23, EL24, EL25, EL41, EL42, EL43, EL44, EL45, EL46, EL47, EL81, EL82, EL83, EL84, EL86 and EL87	N/A
Double leaf outward opening hinged security doorset	EL1(T), EL2(T), EL3(T), EL4(T), EL5(T), EL6(T), EL7(T), EL21(T), EL22(T), EL23(T), EL24(T), EL25(T), EL41(T), EL42(T), EL43(T), EL44(T), EL45(T), EL46(T), EL47(T), EL81(T), EL82(T), EL83(T), EL84(T), EL86(T) and EL87(T)	N/A
Single leaf outward opening padlockable hinged security doorset	EL61, EL63, EL64	a to v
Double leaf outward opening padlockable hinged security doorset	EL61(T), EL63(T), EL64(T)	a to v

### Compatible Locking Systems

Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL1	Tindall Engineering Limited	Mico Elite SATE AD3 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Lever handle	Not applicable	A to BA

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL1(T)	Tindall Engineering Limited	Mico Elite SATE AD3 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Lever handle	Two HSTB barrel bolts	A to BA
EL2	Tindall Engineering Limited	Mico Elite AD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Not applicable	A to BA
EL2(T)	Tindall Engineering Limited	Mico Elite AD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to BA
EL3	Tindall Engineering Limited	Mico Elite SATE AD1 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Push pad	Not applicable	A to BA
EL3(T)	Tindall Engineering Limited	Mico Elite SATE AD1 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Push pad	Two HSTB barrel bolts	A to BA
EL4	Tindall Engineering Limited	Mico Elite SATE AD2 / USCH2 single point panic exit device	Key via USCH2 cylinder guard and lever handle	Full width push plate	Not applicable	A to BA
EL4(T)	Tindall Engineering Limited	Mico Elite SATE AD2 / USCH2 single point panic exit device	Key via USCH2 cylinder guard and lever handle	Full width push plate	Two HSTB barrel bolts	A to BA
EL5	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Electro-mechanical access control device with shrouded thumbturn override and lever handle	Not applicable	A to BA
EL5(T)	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Electro-mechanical access control device with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	A to BA
EL6	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Key and lever handle	Not applicable	A to BA

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL6(T)	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Key and lever handle	Two HSTB barrel bolts	A to BA
EL7	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Not applicable	A to BA
EL7(T)	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to BA
EL21	Tindall Engineering Limited	Mico Elite SATE EM3 / USCH2 single point lock	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Lever handle	Not applicable	A to BA
EL21(T)	Tindall Engineering Limited	Mico Elite SATE EM3 / USCH2 single point emergency exit device	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Lever handle	Two HSTB barrel bolts	A to BA
EL22	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Thumbturn and lever handle	Not applicable	A to BA
EL22(T)	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to BA

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL23	Tindall Engineering Limited	Mico Elite SATE EM1 / USCH2 single point emergency exit device	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Push pad	Not applicable	A to BA
EL23(T)	Tindall Engineering Limited	Mico Elite SATE EM1 / USCH2 single point emergency exit device	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Push pad	Two HSTB barrel bolts	A to BA
EL24	Tindall Engineering Limited	Mico Elite SATE EM2 / USCH2 single point panic exit device	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Full width push plate	Not applicable	A to BA
EL24(T)	Tindall Engineering Limited	Mico Elite SATE EM2 / USCH2 single point panic exit device	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Full width push plate	Two HSTB barrel bolts	A to BA
EL25	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Not applicable	A to BA
EL25(T)	Tindall Engineering Limited	Mico Elite EM3 / USCH2 single point lock	Electro-mechanical access control device with key override (via cylinder protected by a USCH2 cylinder guard) and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	A to BA

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL41	Tindall Engineering Limited	Mico Elite PE3 single point emergency exit device	None	Lever handle	Not applicable	Not applicable
EL41(T)	Tindall Engineering Limited	Mico Elite PE3 single point emergency exit device	None	Lever handle	Two HSTB barrel bolts	Not applicable
EL42	Tindall Engineering Limited	Mico Elite AD3 single point lock	None	Thumbturn and lever handle	Not applicable	Not applicable
EL42(T)	Tindall Engineering Limited	Mico Elite AD3 single point lock	None	Thumbturn and lever handle	Two HSTB barrel bolts	Not applicable
EL43	Tindall Engineering Limited	Mico Elite PE1 single point emergency exit device	None	Push pad	Not applicable	Not applicable
EL43(T)	Tindall Engineering Limited	Mico Elite PE1 single point emergency exit device	None	Push pad	Two HSTB barrel bolts	Not applicable
EL44	Tindall Engineering Limited	Mico Elite PE2 single point panic exit device	None	Full width push plate	Not applicable	Not applicable
EL44(T)	Tindall Engineering Limited	Mico Elite PE2 single point panic exit device	None	Full width push plate	Two HSTB barrel bolts	Not applicable
EL45	Tindall Engineering Limited	Mico Elite EM3 single point lock	None	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Not applicable	Not applicable
EL45(T)	Tindall Engineering Limited	Mico Elite EM3 single point lock	None	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	Not applicable

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL46	Tindall Engineering Limited	Mico Elite MD3 single point lock	None	Key and lever handle	Not applicable	Not applicable
EL46(T)	Tindall Engineering Limited	Mico Elite MD3 single point lock	None	Key and lever handle	Two HSTB barrel bolts	Not applicable
EL47	Tindall Engineering Limited	Mico Elite MD3 single point lock	None	Thumbturn and lever handle	Not applicable	Not applicable
EL47(T)	Tindall Engineering Limited	Mico Elite MD3 single point lock	None	Thumbturn and lever handle	Two HSTB barrel bolts	Not applicable
EL61	Tindall Engineering Limited	Mico Elite PE3 / H&S SR2 single point emergency exit device	Padlock via Mico Hasp & Staple SR2	Lever handle	Not applicable	Not applicable
EL61(T)	Tindall Engineering Limited	Mico Elite PE3 / H&S SR2 single point emergency exit device	Padlock via Mico Hasp & Staple SR2	Lever handle	Two HSTB barrel bolts	Not applicable
EL63	Tindall Engineering Limited	Mico Elite PE1 / H&S SR2 single point emergency exit device	Padlock via Mico Hasp & Staple SR2	Push pad	Not applicable	Not applicable
EL63(T)	Tindall Engineering Limited	Mico Elite PE1 / H&S SR2 single point emergency exit device	Padlock via Mico Hasp & Staple SR2	Push pad	Two HSTB barrel bolts	Not applicable
EL64	Tindall Engineering Limited	Mico Elite PE2 / H&S SR2 single point panic exit device	Padlock via Mico Hasp & Staple SR2	Full width push plate	Not applicable	Not applicable
EL64(T)	Tindall Engineering Limited	Mico Elite PE2 / H&S SR2 single point panic exit device	Padlock via Mico Hasp & Staple SR2	Full width push plate	Two HSTB barrel bolts	Not applicable
EL81	Tindall Engineering Limited	Mico Elite SATE MD3 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Lever handle	Not applicable	A to BA
EL81(T)	Tindall Engineering Limited	Mico Elite SATE MD3 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Lever handle	Two HSTB barrel bolts	A to BA

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
EL82	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Not applicable	A to BA
EL82(T)	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to BA
EL83	Tindall Engineering Limited	Mico Elite SATE MD1 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Push pad	Not applicable	A to BA
EL83(T)	Tindall Engineering Limited	Mico Elite SATE MD1 / USCH2 single point emergency exit device	Key via USCH2 cylinder guard and lever handle	Push pad	Two HSTB barrel bolts	A to BA
EL84	Tindall Engineering Limited	Mico Elite SATE MD2 / USCH2 single point panic exit device	Key via USCH2 cylinder guard and lever handle	Full width push plate	Not applicable	A to BA
EL84(T)	Tindall Engineering Limited	Mico Elite SATE MD2 / USCH2 single point panic exit device	Key via USCH2 cylinder guard and lever handle	Full width push plate	Two HSTB barrel bolts	A to BA
EL86	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Key and lever handle	Not applicable	A to BA
EL86(T)	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Key and lever handle	Two HSTB barrel bolts	A to BA
EL87	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Not applicable	A to BA
EL87(T)	Tindall Engineering Limited	Mico Elite MD3 / USCH2 single point lock	Key via USCH2 cylinder guard and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to BA

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### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type
A	Abloy	Disklock Pro CY201 DP	Scandinavian Oval (with tail)
B	Abloy	Protec CY201 PT	Scandinavian Oval (with tail)
C	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval (Mechatronic)
D	Abloy	Protec2 CY201-TT	Scandinavian Oval
E	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval (Mechatronic)
F	Abloy	Novel CY201-VL	Scandinavian Oval
G	Access2	Tigris Omega	Scandinavian Oval
H	Access2	Tigris Plus	Scandinavian Oval
I	Access2	Tigris Premier Two	Scandinavian Oval
J	ASSA	4401dp	Scandinavian Oval
K	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic)
L	ASSA	4407dp	Scandinavian Oval (with tail)
M	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (with tail) (Mechatronic)
N	ASSA	4801	Scandinavian Oval
O	ASSA	4807	Scandinavian Oval (with tail)
P	ASSA	C5801	Scandinavian Oval
Q	ASSA	C5807	Scandinavian Oval (with tail)
R	ASSA	Twin 7601	Scandinavian Oval
S	ASSA	Twin 7607	Scandinavian Oval (with tail)
T	iLOQ	C10S.1	Scandinavian Oval (Mechatronic)
U	ISEO	F6 extra	Scandinavian Oval
V	ISEO	R11	Scandinavian Oval
W	ISEO	R50	Scandinavian Oval
X	Kaba	experT	Scandinavian Oval
Y	Kaba	Gege RAM	Scandinavian Oval
Z	Kaba	Gege pExtra	Scandinavian Oval
AA	Kaba	K20	Scandinavian Oval (with tail)
AB	Kaba	Quattro PluS	Scandinavian Oval (with tail)
AC	KESO	4000S	Scandinavian Oval

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Cylinder Reference	Manufacturer	Model	Type
AD	Locken	CL-PL2WR	Scandinavian Oval (with tail) (Mechatronic)
AE	Medeco	M3-ARX	Scandinavian Oval (with tail)
AF	Abloy	Disclock Pro CY403-DP	Rim
AG	Abloy	Disclock Pro CY405-DP	Rim
AH	Abloy	Novel CY403-VL	Rim
AI	Abloy	Novel CY405-VL	Rim
AJ	Abloy	Protec CY403-PT	Rim
AK	Abloy	Protec CY405-PT	Rim
AL	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic)
AM	Abloy	Protec2 CY403-TT	Rim
AN	Abloy	Protec2 CY405-TT	Rim
AO	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic)
AP	ASSA	4857	Rim
AQ	ASSA	C5857	Rim
AR	ASSA	Twin-Combi C5851	Rim
AS	Bramah	C17	Rim
AT	ISEO	F6 extra	Rim
AU	ISEO	R11	Rim
AV	ISEO	R50	Rim
AW	Kaba	K20	Rim
AX	Kaba	Quattro Plus	Rim
AY	KESO	4000S	Rim
AZ	Medeco	M3-ARX	Rim
BA	Yale	X5	Rim

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### Compatible Padlocks

Padlock Reference	Padlock		Cylinder	
	Manufacturer	Model	Manufacturer	Model
a	Abloy	PL340/25	Abloy	Disklock Pro
b	Abloy	PL340/25	Abloy	High Profile
c	Abloy	PL340/25	Abloy	Novel
d	Abloy	PL340/25	Abloy	Protec
e	Abloy	PL340/25	Abloy	Protec2
f	Abloy	PL340/25	Abloy	Sentry
g	Abloy	PL342	Abloy	Disklock Pro
h	Abloy	PL342	Abloy	High Profile
i	Abloy	PL342	Abloy	Novel
j	Abloy	PL342	Abloy	Protec
k	Abloy	PL342	Abloy	Protec2
l	Abloy	PL342	Abloy	Sentry
m	Abloy	PL350/25	Abloy	High Profile
n	Abloy	PL350/25	Abloy	Exec
o	Abloy	PL350/25	Abloy	Disklock Pro
p	Abloy	PL350/25	Abloy	Protec
q	Abloy	PL350/25	Abloy	Sentry
r	Kaba	KP18	Kaba	K20
s	Squire	SS50	Squire	6 Pin
t	Squire	SS50	Medeco	M3 ARX
u	Squire	SS65	Squire	6 Pin
v	Squire	SS65	Medeco	M3 ARX

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## Appendix to Certificate No: 450ac Technocover Limited (Incorporating TechnoRail & Strataform)

Issue: 01

### Options

Option	Compatible Locking Systems	Compatible Padlocks
Sentinel Lite upper louvre vent (188 mm by 288 mm)	EL1, EL2, EL3, EL5, EL6, EL7, EL21< EL22, EL23, EL25, EL41, EL42, EL43, EL45, EL46, EL47, EL81, EL82, EL83, EL86 and EL87	N/A
	EL1(T), EL2(T), EL3(T), EL5(T), EL6(T), EL7(T), EL21(T), EL22(T), EL23(T), EL25(T), EL41(T), EL42(T), EL43(T), EL45(T), EL46(T), EL47(T), EL81(T), EL82(T), EL83(T), EL86(T) and EL87(T)	N/A
	EL61 and EL63	a to v
	EL61(T) and EL63(T)	a to v
Sentinel Lite lower louvre vent (188 mm by 288 mm)	EL1, EL2, EL3, EL4, EL5, EL6, EL7, EL21, EL22, EL23, EL24, EL25, EL41, EL42, EL43, EL44, EL45, EL46, EL47, EL81, EL82, EL83, EL84, EL86 and EL87	N/A
	EL1(T), EL2(T), EL3(T), EL4(T), EL5(T), EL6(T), EL7(T), EL21(T), EL22(T), EL23(T), EL24(T), EL25(T), EL41(T), EL42(T), EL43(T), EL44(T), EL45(T), EL46(T), EL47(T), EL81(T), EL82(T), EL83(T), EL84(T), EL86(T) and EL87(T)	N/A
	EL61 and EL63	a to v
	EL61(T) and EL63(T)	a to v
Sentinel Lite 'SR2' vision panel (visible area 190 mm by 290 mm)	EL1, EL2, EL3, EL5, EL6, EL7, EL21, EL22, EL23, EL25, EL41, EL42, EL43, EL45, EL46, EL47, EL81, EL82, EL83, EL86 and EL87	N/A
	EL1(T), EL2(T), EL3(T), EL5(T), EL6(T), EL7(T), EL21(T), EL22(T), EL23(T), EL25(T), EL41(T), EL42(T), EL43(T), EL45(T), EL46(T), EL47(T), EL81(T), EL82(T), EL83(T), EL86(T) and EL87(T)	N/A
	EL61 and EL63	a to v
	EL61(T) and EL63(T)	a to v

### Notes:

1. Certification does not cover the use of padlocks other than those listed above. Utilisation of unlisted padlocks may affect the level of security offered by the doorset.
2. The Abloy padlocks are only compatible when bearing an alpha-numeric code denoting the date of manufacture as December 2013 or later, or when incorporating the 'V01' modifications.
3. Please refer to the manufacturer for more details on the position of the vision panel/louvre vents within the door leaf.
4. The resistance of the access control locks and mechatronic cylinders to "non-mechanical" attack is not covered by this approval as they are outside the scope of LPS 1175: Issue 8. 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 / 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.

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

*P. Dillon*

Signed for BRE Global Ltd.

Paul Dillon  
Verifier

26 January 2021  
Date of Issue

26 January 2021  
Date of First Issue



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