

## Certificate of Product Approval

Certificate Number: 450ah

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**  
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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Signed for BRE Global Ltd.

Paul Dillon  
Verifier

26 January 2021  
Date of 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	Single leaf outward opening hinged security doorset	1.8	2.35	0.75	1.2	E10 (SR5)	450ah/01
	Double leaf outward opening hinged security doorset	1.8	2.35	1.2	2.3		

### Approved Locking Configurations

Type	Compatible Locking Systems
Single leaf outward opening hinged security doorset	MT21 to MT30, MT51 to MT60 and MT81 to MT90
Double leaf outward opening hinged security doorset	MT22, MT24, MT26, MT28, MT30, MT52, MT54, MT56, MT58, MT60, MT82, MT84, MT86, MT88, MT90

### Compatible Locking Systems

Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT21	Tindall Engineering Limited	Abryll AD3 SATE / USCH5 single point emergency exit device	Key and lever handle	Single action lever handle	Not applicable	A to AR
MT22	Tindall Engineering Limited	942L INT AD SATE / USCH5 two point emergency exit device	Key and lever handle	Single action lever handle	Two HSTB barrel bolts	A to AR
MT23	Tindall Engineering Limited	Abryll AD3 / USCH5 single point lock	Key and lever handle	Thumbturn and lever handle	Not applicable	A to AR
MT24	Tindall Engineering Limited	942L INT AD / USCH5 two point locking system	Key and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to AR
MT25	Tindall Engineering Limited	Abryll AD1 SATE / USCH5 single point emergency exit device	Key and lever handle	Single action push pad	Not applicable	A to AR

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT26	Tindall Engineering Limited	942P INT AD SATE / USCH5 two point emergency exit device	Key and lever handle	Single action push pad	Two HSTB barrel bolts	A to AR
MT27	Tindall Engineering Limited	Abryll AD2 SATE / USCH5 single point panic exit device	Key and lever handle	Panic bar	Not applicable	A to AR
MT28	Tindall Engineering Limited	942 INT AD SATE / USCH5 two point panic exit device	Key and lever handle	Panic bar	Two HSTB barrel bolts	A to AR
MT29	Tindall Engineering Limited	Abryll EM3 (fail secure) / USCH5 single point lock	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Not applicable	A to AR
MT30	Tindall Engineering Limited	942L EM (fail secure) / USCH5 two point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Two HSTB barrel bolts	A to AR
MT51	Tindall Engineering Limited	Abryll EM3 SATE (fail secure) / USCH5 single point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Not applicable	A to AR
MT52	Tindall Engineering Limited	942L EM SATE (fail secure) / USCH5 two point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Two HSTB barrel bolts	A to AR
MT53	Tindall Engineering Limited	Abryll EM3 (fail secure) / USCH5 single point lock	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Not applicable	A to AR

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT54	Tindall Engineering Limited	942L EM (fail secure) / USCH5 two point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Two HSTB barrel bolts	A to AR
MT55	Tindall Engineering Limited	Abryll EM1 SATE (fail secure) / USCH5 single point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Not applicable	A to AR
MT56	Tindall Engineering Limited	942P EM SATE (fail secure) / USCH5 two point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Two HSTB barrel bolts	A to AR
MT57	Tindall Engineering Limited	Abryll EM2 SATE (fail secure) / USCH5 single point panic exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Not applicable	A to AR
MT58	Tindall Engineering Limited	942 EM SATE (fail secure) / USCH5 two point panic exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Two HSTB barrel bolts	A to AR
MT59	Tindall Engineering Limited	Abryll EM3 (fail secure) / USCH5 single point lock	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Not applicable	A to AR
MT60	Tindall Engineering Limited	942L EM (fail secure) / USCH5 two point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with thumbturn override and lever handle	Two HSTB barrel bolts	A to AR
MT81	Tindall Engineering Limited	Abryll PE3 single point emergency exit device	None	Single action lever handle	Not applicable	Not applicable

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Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT82	Tindall Engineering Limited	942L two point emergency exit device	None	Single action lever handle	Two HSTB barrel bolts	Not applicable
MT83	Tindall Engineering Limited	Abyll AD3 single point lock	None	Thumbturn and lever handle	Not applicable	Not applicable
MT84	Tindall Engineering Limited	942L INT AD two point locking system	None	Thumbturn and lever handle	Two HSTB barrel bolts	Not applicable
MT85	Tindall Engineering Limited	Abyll PE1 single point emergency exit device	None	Single action push pad	Not applicable	Not applicable
MT86	Tindall Engineering Limited	942P two point emergency exit device	None	Single action push pad	Two HSTB barrel bolts	Not applicable
MT87	Tindall Engineering Limited	Abyll PE2 single point panic exit device	None	Panic bar	Not applicable	Not applicable
MT88	Tindall Engineering Limited	942 two point panic exit device	None	Panic bar	Two HSTB barrel bolts	Not applicable
MT89	Tindall Engineering Limited	Abyll EM3 (fail secure) single point lock	None	Electro-mechanical access control lock with thumbturn override and lever handle	Not applicable	Not applicable
MT90	Tindall Engineering Limited	942L EM (fail secure) two point locking system	None	Electro-mechanical access control lock with thumbturn override and lever handle	Two HSTB barrel bolts	Not applicable

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### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type
A	Abloy	Protec CY201 PT	Scandinavian Oval (with tail)
B	Abloy	Protec Cliq / Cliq Remote CY201-PT-CLIQ	Scandinavian Oval (Mechatronic)
C	Abloy	Protec2 CY201-TT	Scandinavian Oval
D	Abloy	Protec2 Cliq / Cliq Remote CY201-TT-CLIQ	Scandinavian Oval (Mechatronic)
E	Access2	Tigris Omega	Scandinavian Oval
F	Access2	Tigris Premier Two	Scandinavian Oval
G	ASSA	4401dp	Scandinavian Oval
H	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic)
I	ASSA	4407dp	Scandinavian Oval (with tail)
J	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (with tail) (Mechatronic)
K	ASSA	4801	Scandinavian Oval
L	ASSA	4807	Scandinavian Oval (with tail)
M	ASSA	C5801	Scandinavian Oval
N	ASSA	C5807	Scandinavian Oval (with tail)
O	ASSA	Twin 7601	Scandinavian Oval
P	ASSA	Twin 7607	Scandinavian Oval (with tail)
Q	iLOQ	C10S.1	Scandinavian Oval (Mechatronic)
R	ISEO	R11	Scandinavian Oval
S	ISEO	R50	Scandinavian Oval
T	Kaba	experT	Scandinavian Oval
U	Kaba	Gege RAM	Scandinavian Oval
V	Kaba	Gege pExtra	Scandinavian Oval
W	Kaba	K20	Scandinavian Oval (with tail)
X	Kaba	Quattro Plus	Scandinavian Oval (with tail)
Y	KESO	4000S	Scandinavian Oval
Z	Locken	CL-PL2WR	Scandinavian Oval (with tail) (Mechatronic)
AA	Medeco	M3-ARX	Scandinavian Oval (with tail)
AB	Abloy	Protec CY403-PT	Rim
AC	Abloy	Protec CY405-PT	Rim

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Cylinder Reference	Manufacturer	Model	Type
AD	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic)
AE	Abloy	Protec2 CY403-TT	Rim
AF	Abloy	Protec2 CY405-TT	Rim
AG	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic)
AH	ASSA	4857	Rim
AI	ASSA	C5857	Rim
AJ	ASSA	Twin-Combi C5851	Rim
AK	ISEO	F6 extra	Rim
AL	ISEO	R11	Rim
AM	ISEO	R50	Rim
AN	Kaba	K20	Rim
AO	Kaba	Quattro Plus	Rim
AP	KESO	4000S	Rim
AQ	Medeco	M3-ARX	Rim
AR	Yale	X5	Rim

### Notes:

1. This approval covers double leaf doorsets with leaves of equal width.
2. The resistance of the access control locks and mechatronic cylinders to "non-mechanical" attack is not covered by this approval as they were 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.

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