

Certificate of Product Approval

Certificate Number: 450y

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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Paul Dillon
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Hinged Security Doorsets

Product Name	Model	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	DS1/SEN4/SM	Single leaf outward opening hinged security doorset	1.8	2.35	0.75	1.2	D10 (SR4)	450y/01
	DS2/SEN4/SM	Double leaf outward opening hinged security doorset	1.8	2.35	1.2	2.185		
	DS1/SEN4/MT	Single leaf outward opening hinged security doorset	1.21	2.35	0.75	1.2		
	DS2/SEN4/MT	Double leaf outward opening hinged security doorset	1.21	2.35	1.2	2.35		

Approved Locking Configurations

Model	Type	Compatible Locking Systems
DS1/SEN4/SM	Single leaf outward opening hinged security doorset	SM6 to SM10, SM16 to SM20 and SM26 to SM30
DS2/SEN4/SM	Double leaf outward opening hinged security doorset	SM6 to SM10, SM16 to SM20 and SM26 to SM30
DS1/SEN4/MT	Single leaf outward opening hinged security doorset	MT11 to MT20, MT41 to MT50, MT71 to MT80, MT93, MT94, MT97 and MT98
DS2/SEN4/MT	Double leaf outward opening hinged security doorset	MT12(T), MT14(T), MT16(T), MT18(T), MT20(T), MT42(T), MT44(T), MT46(T), MT48(T), MT50(T), MT72(T), MT74(T), MT76(T), MT78(T), MT80(T), MT97(T) and MT98(T)

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Compatible Locking Systems

Compatible Locking System	Manufacturer	Operating Devices				Compatible Cylinders
		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
SM6	Surelock McGill Limited	SL315-P5-A5-(04/05) three point emergency exit device	Key and lever handle	Single action lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM7	Surelock McGill Limited	SL313-P5-A5-K15-(04/05) three point locking system	Key and lever handle	Thumbturn and lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM8	Surelock McGill Limited	SL315-H3-P5-A5-(04/05) three point emergency exit device	Key and lever handle	Single action push pad	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM9	Surelock McGill Limited	SL314-P5-A5-(04/05) three point panic exit device	Key and lever handle	Panic bar	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM10	Surelock McGill Limited	SL322-P5-A5-K2-K4-(04/05) three point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with break dome thumbturn override and lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM16	Surelock McGill Limited	SL325-P5-K2-A5-R-(04/05) three point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM17	Surelock McGill Limited	SL323-P5-K2-K15-A5-R-(04/05) three point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Thumbturn and lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM18	Surelock McGill Limited	SL325-H3-P5-K2-A5-R-(04/05) three point emergency exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
SM19	Surelock McGill Limited	SL324-P5-A5-K2-R-(04/05) three point panic exit device	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM20	Surelock McGill Limited	SL322-P5-A5-K2-K4-(04/05) three point locking system	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with break dome thumbturn override and lever handle	Two S3TB barrel bolts	AD to AP, AT, AU, AW, AY, AZ
SM26	Surelock McGill Limited	SL315-A5-(04/05) three point emergency exit device	None	Single action lever handle	Two S3TB barrel bolts	Not applicable
SM27	Surelock McGill Limited	SL313-O0-A5-K15-(04/05) three point locking system	None	Thumbturn and lever handle	Two S3TB barrel bolts	Not applicable
SM28	Surelock McGill Limited	SL315-H3-A5-(04/05) three point emergency exit device	None	Single action push pad	Two S3TB barrel bolts	Not applicable
SM29	Surelock McGill Limited	SL314-A5-(04/05) three point panic exit device	None	Panic bar	Two S3TB barrel bolts	Not applicable
SM30	Surelock McGill Limited	SL322-A5-K4-(04/05) three point locking system ³	None	Electro-mechanical access control lock (fail secure) with break dome thumbturn override and lever handle	Two S3TB barrel bolts	Not applicable
MT11	Tindall Engineering Limited	Abryll AD3 SATE / USCH4 single point emergency exit device	Key and lever handle	Single action lever handle	Not applicable	A to AC, AH to AX
MT12	Tindall Engineering Limited	942-3L INT AD SATE / USCH4 three point emergency exit device	Key and lever handle	Single action lever handle	Not applicable	A to AC, AH to AX
MT12(T)	Tindall Engineering Limited	942-3L INT AD SATE / USCH4 three point emergency exit device	Key and lever handle	Single action lever handle	Two HSTB barrel bolts	A to AC, AH to AX

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT13	Tindall Engineering Limited	Abryll AD3 / USCH4 single point lock	Key and lever handle	Thumbturn and lever handle	Not applicable	A to AC, AH to AX
MT14	Tindall Engineering Limited	942-3L INT AD / USCH4 three point locking system	Key and lever handle	Thumbturn and lever handle	Not applicable	A to AC, AH to AX
MT14(T)	Tindall Engineering Limited	942-3L INT AD / USCH4 three point locking system	Key and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to AC, AH to AX
MT15	Tindall Engineering Limited	Abryll AD1 SATE / USCH4 single point emergency exit device	Key and lever handle	Single action push pad	Not applicable	A to AC, AH to AX
MT16	Tindall Engineering Limited	942-3P INT AD SATE / USCH4 three point emergency exit device	Key and lever handle	Single action push pad	Not applicable	A to AC, AH to AX
MT16(T)	Tindall Engineering Limited	942-3P INT AD SATE / USCH4 three point emergency exit device	Key and lever handle	Single action push pad	Two HSTB barrel bolts	A to AC, AH to AX
MT17	Tindall Engineering Limited	Abryll AD2 SATE / USCH4 single point panic exit device	Key and lever handle	Panic bar	Not applicable	A to AC, AH to AX
MT18	Tindall Engineering Limited	942-3 INT AD SATE / USCH4 three point panic exit device	Key and lever handle	Panic bar	Not applicable	A to AC, AH to AX
MT18(T)	Tindall Engineering Limited	942-3 INT AD SATE / USCH4 three point panic exit device	Key and lever handle	Panic bar	Two HSTB barrel bolts	A to AC, AH to AX
MT19	Tindall Engineering Limited	Abryll EM1 (fail secure) / USCH4 single point lock ³	Key and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and push pad	Not applicable	A to AC, AH to AX

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT20	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Key and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Not applicable	A to AC, AH to AX
MT20T	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Key and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	A to AC, AH to AX
MT41	Tindall Engineering Limited	Abyll EM3 SATE (fail secure) / USCH4 single point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Not applicable	A to AC, AH to AX
MT42	Tindall Engineering Limited	942-3L EM SATE (fail secure) / USCH4 three point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Not applicable	A to AC, AH to AX
MT42(T)	Tindall Engineering Limited	942-3L EM SATE (fail secure) / USCH4 three point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action lever handle	Two HSTB barrel bolts	A to AC, AH to AX
MT43	Tindall Engineering Limited	Abyll EM3 (fail secure) / USCH4 single point lock ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Thumbturn and lever handle	Not applicable	A to AC, AH to AX
MT44	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Thumbturn and lever handle	Not applicable	A to AC, AH to AX
MT44(T)	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Thumbturn and lever handle	Two HSTB barrel bolts	A to AC, AH to AX

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT45	Tindall Engineering Limited	Abryll EM1 SATE (fail secure) / USCH4 single point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Not applicable	A to AC, AH to AX
MT46	Tindall Engineering Limited	942-3P EM SATE (fail secure) / USCH4 three point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Not applicable	A to AC, AH to AX
MT46(T)	Tindall Engineering Limited	942-3P EM SATE (fail secure) / USCH4 three point emergency exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Single action push pad	Two HSTB barrel bolts	A to AC, AH to AX
MT47	Tindall Engineering Limited	Abryll EM2 SATE (fail secure) / USCH4 single point panic exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Not applicable	A to AC, AH to AX
MT48	Tindall Engineering Limited	942-3 EM SATE (fail secure) / USCH4 three point panic exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Not applicable	A to AC, AH to AX
MT48(T)	Tindall Engineering Limited	942-3 EM SATE (fail secure) / USCH4 three point panic exit device ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Panic bar	Two HSTB barrel bolts	A to AC, AH to AX
MT49	Tindall Engineering Limited	Abryll EM1 (fail secure) / USCH4 single point lock ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and push pad	Not applicable	A to AC, AH to AX
MT50	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Not applicable	A to AC, AH to AX

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT50(T)	Tindall Engineering Limited	942-3L EM (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	A to AC, AH to AX
MT71	Tindall Engineering Limited	Abyll PE3 single point emergency exit device	None	Single action lever handle	Not applicable	Not applicable
MT72	Tindall Engineering Limited	942-3L three point emergency exit device	None	Single action lever handle	Not applicable	Not applicable
MT72(T)	Tindall Engineering Limited	942-3L three point emergency exit device	None	Single action lever handle	Two HSTB barrel bolts	Not applicable
MT73	Tindall Engineering Limited	Abyll AD3 SATE single point lock	None	Single action lever handle	Not applicable	Not applicable
MT74	Tindall Engineering Limited	942-3L INT AD three point locking system	None	Thumbturn and lever handle	Not applicable	Not applicable
MT74(T)	Tindall Engineering Limited	942-3L INT AD three point locking system	None	Thumbturn and lever handle	Two HSTB barrel bolts	Not applicable
MT75	Tindall Engineering Limited	Abyll PE1 single point emergency exit device	None	Single action push pad	Not applicable	Not applicable
MT76	Tindall Engineering Limited	942-3P three point emergency exit device	None	Single action push pad	Not applicable	Not applicable
MT76(T)	Tindall Engineering Limited	942-3P three point emergency exit device	None	Single action push pad	Two HSTB barrel bolts	Not applicable
MT77	Tindall Engineering Limited	Abyll PE2 single point panic exit device	None	Panic bar	Not applicable	Not applicable

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT78	Tindall Engineering Limited	942-3 three point panic exit device	None	Panic bar	Not applicable	Not applicable
MT78(T)	Tindall Engineering Limited	942-3 three point panic exit device	None	Panic bar	Two HSTB barrel bolts	Not applicable
MT79	Tindall Engineering Limited	Abyll EM1 (fail secure) single point lock ³	None	Electro-mechanical access control lock with shrouded thumbturn override and push pad	Not applicable	Not applicable
MT80	Tindall Engineering Limited	942-3L EM (fail secure) three point locking system ³	None	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Not applicable	Not applicable
MT80(T)	Tindall Engineering Limited	942-3L EM (fail secure) three point locking system ³	None	Electro-mechanical access control lock with shrouded thumbturn override and lever handle	Two HSTB barrel bolts	Not applicable
MT93	Tindall Engineering Limited	Abyll ADX / USCH4 single point lock	Key and lever handle	None	Not applicable	A to AC, AH to AX
MT93(T)	Tindall Engineering Limited	Abyll ADX / USCH4 single point lock	Key and lever handle	None	Two HSTB barrel bolts	A to AC, AH to AX
MT94	Tindall Engineering Limited	Abyll EMX (fail secure) / USCH4 single point lock ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	None	Not applicable	A to AC, AH to AX
M97	Tindall Engineering Limited	942-3 ADX / USCH4 three point locking system	Key and lever handle	None	Not applicable	A to AC, AH to AX

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		Active Leaf			Passive Leaf	
		Model	External Face	Internal Face		
MT97T)	Tindall Engineering Limited	942-3 ADX / USCH4 three point locking system	Key and lever handle	None	Two HSTB barrel bolts	A to AC, AH to AX
MT98	Tindall Engineering Limited	942-3 EMX (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	None	Not applicable	A to AC, AH to AX
MT98(T)	Tindall Engineering Limited	942-3 EMX (fail secure) / USCH4 three point locking system ³	Electro-mechanical access control lock (fail secure) with key override and lever handle	None	Two HSTB barrel bolts	A to AC, AH to AX

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 Plus	Scandinavian Oval
G	Access2	Tigris Premier Two	Scandinavian Oval
H	ASSA	4401 dp	Scandinavian Oval
I	ASSA	4401 Cliq / Cliq Remote	Scandinavian Oval (Mechatronic)
J	ASSA	4407 dp	Scandinavian Oval (with tail)
K	ASSA	4407 Cliq / Cliq Remote	Scandinavian Oval (with tail) (Mechatronic)
L	ASSA	4801	Scandinavian Oval
M	ASSA	4807	Scandinavian Oval (with tail)
N	ASSA	C5801	Scandinavian Oval
O	ASSA	C5807	Scandinavian Oval (with tail)
P	ASSA	Twin 7601	Scandinavian Oval
Q	ASSA	Twin 7607	Scandinavian Oval (with tail)

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Cylinder Reference	Manufacturer	Model	Type
R	iLOQ	C10S.1	Scandinavian Oval (Mechatronic)
S	ISEO	F6 extra	Scandinavian Oval
T	ISEO	R11	Scandinavian Oval
U	ISEO	R50	Scandinavian Oval
V	Kaba	experT	Scandinavian Oval
W	Kaba	Gege RAM	Scandinavian Oval
X	Kaba	Gege pExtra	Scandinavian Oval
Y	Kaba	K20	Scandinavian Oval (with tail)
Z	Kaba	Quattro Plus	Scandinavian Oval (with tail)
AA	KESO	4000S	Scandinavian Oval
AB	Locken	CL-PL2WR	Scandinavian Oval (with tail) (Mechatronic)
AC	Medeco	M3-ARX	Scandinavian Oval (with tail)
AD	Abloy	Disclock Pro CY403-DP	Rim
AE	Abloy	Disclock Pro CY405-DP	Rim
AF	Abloy	Novel CY403-VL	Rim
AG	Abloy	Novel CY405-VL	Rim
AH	Abloy	Protec CY403-PT	Rim
AI	Abloy	Protec CY405-PT	Rim
AJ	Abloy	Protec Cliq / Cliq Remote CY403-PT-CLIQ	Rim (Mechatronic)
AK	Abloy	Protec2 CY403-TT	Rim
AL	Abloy	Protec2 CY405-TT	Rim
AM	Abloy	Protec2 Cliq / Cliq Remote CY403-TT-CLIQ	Rim (Mechatronic)
AN	ASSA	4857	Rim
AO	ASSA	C5857	Rim
AP	ASSA	Twin-Combi C5851	Rim
AQ	ISEO	F6 extra	Rim
AR	ISEO	R11	Rim
AS	ISEO	R50	Rim
AT	Kaba	K20	Rim
AU	Kaba	Quattro Plus	Rim
AV	KESO	4000S	Rim

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

Issue: 01

Cylinder Reference	Manufacturer	Model	Type
AW	Medeco	M3-ARX	Rim
AX	Yale	X5	Rim
AY	Kaba	KV06.100 (torque resistant)	Rim
AZ	Yale	PK1109 (Pro key)	Rim

Options

Option	Model	Compatible Locking Systems
Upper louvre vent (200 mm by 220 mm)	DS1/SEN4/SM	SM6 to SM10, SM16 to SM20 and SM26 to SM30
	DS2/SEN4/SM	SM6 to SM10, SM16 to SM20 and SM26 to SM30
	DS1/SEN4/MT	MT11 to MT20, MT41 to MT50, MT71 to MT80, MT93, MT94, MT97 and MT98
	DS2/SEN4/MT	MT12(T), MT14(T), MT16(T), MT18(T), MT20(T), MT42(T), MT44(T), MT46(T), MT48(T), MT50(T), MT72(T), MT74(T), MT76(T), MT78(T), MT80(T), MT97(T) and MT98(T)
Lower louvre vent (200 mm by 220 mm)	DS1/SEN4/SM	SM6, SM7, SM8, SM10, SM16, SM17, SM18, SM20, SM26, SM27, SM28 and SM30
	DS2/SEN4/SM	SM6, SM7, SM8, SM10, SM16, SM17, SM18, SM20, SM26, SM27, SM28 and SM30
	DS1/SEN4/MT	MT11, MT12, MT13, MT14, MT15, MT16, MT19, MT20, MT41, MT42, MT43, MT44, MT45, MT46, MT49, MT50, MT71, MT72, MT73, MT74, MT75, MT76, MT79, MT80, MT93, MT94, MT97 and MT98
	DS2/SEN4/MT	MT12(T), MT14(T), MT16(T), MT20(T), MT42(T), MT44(T), MT46(T), MT50(T), MT72(T), MT74(T), MT76(T), MT80(T), MT97(T) and MT98(T)
Sentinel 'SR4' vision panel (visible area 190 mm by 290 mm)	DS1/SEN4/SM	SM6 to SM10, SM16 to SM20 and SM26 to SM30
	DS2/SEN4/SM	SM6 to SM10, SM16 to SM20 and SM26 to SM30
	DS1/SEN4/MT	MT11 to MT20, MT41 to MT50, MT71 to MT80, MT93, MT94, MT97 and MT98
	DS2/SEN4/MT	MT12(T), MT14(T), MT16(T), MT18(T), MT20(T), MT42(T), MT44(T), MT46(T), MT48(T), MT50(T), MT72(T), MT74(T), MT76(T), MT78(T), MT80(T), MT97(T) and MT98(T)

Notes:

1. This approval covers double leaf doorsets with leaves of equal widths.
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. 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.
3. Please refer to the manufacturer for more details on the position of the vision panel/louvre vents within the door leaf.

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

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Date of First Issue



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