

## Certificate of Product Approval

Certificate Number: 234d Part 6

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 6**  
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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Signed for BRE Global Ltd.

Paul Dillon  
Verifier

9 May 2023  
Date of Issue

8 January 2013  
Date of First Issue



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## Appendix to Certificate No: 234d Part 6 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 6	Single leaf, outward opening hinged security doorset	1.8	2.4	0.75	1.24	6	234d/15
	Double leaf, outward opening hinged security doorset <sup>1</sup>	1.8	2.4	1.24	2.4	6	

### Approved Locking Configurations

LPCB Ref. No.	Product Name	Type	Compatible Locking Systems	
			Active Leaf	Passive Leaf
234d/15	ExcluDoor 6	Single leaf, outward opening hinged security doorset	2 to 9	N/A
	ExcluDoor 6	Double leaf, outward opening hinged security doorset	2 to 9	1

### Compatible Locking Systems

Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
1	Sunray Engineering Limited	Two Sunray surface mounted drop bolts	Surface mounted drop bolt	None	Surface mounted drop bolt	N/A
2	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH6	Single-point locking system with automatic deadlock	Key and handle	Key and handle	A to K
3	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH6	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	L to X
4	Tindall Engineering Limited	Mico Abyrll AD3 / USCH6	Single-point locking system with automatic deadlock	Key and handle	Key and handle	Y to AQ
5	Tindall Engineering Limited	Mico Abyrll AD3 / USCH6 <sup>2</sup>	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	Y to AQ

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
6	Tindall Engineering Limited	Mico Abryll EPC AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
7	Tindall Engineering Limited	Mico Abryll EPC AD3	Single-point locking system with automatic deadlock	None	Thumb turn and handle	N/A
8	Tindall Engineering Limited	Mico Abryll AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
9	Tindall Engineering Limited	Mico Abryll AD3 <sup>2</sup>	Single-point locking system with automatic deadlock	None	Thumb turn and handle	N/A

### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating <sup>3</sup>
A	Abloy	CY304 Protec	Europrofile double cylinder (key:key)	+
B	Access2	Tigres Omega	Europrofile double cylinder (key:key)	+
C	Assa	4822	Europrofile double cylinder (key:key)	+
D	Assa	7622	Europrofile double cylinder (key:key)	
E	Assa	C5822	Europrofile double cylinder (key:key)	+
F	Assa	dp4422	Europrofile double cylinder (key:key)	+
G	Kaba	Gege RAM	Europrofile double cylinder (key:key)	+
H	Kaba	Quattro PluS	Europrofile double cylinder (key:key)	+
I	Medeco	M3-ARX	Europrofile double cylinder (key:key)	+
J	Abloy	CY304 Protec Cliq <sup>4</sup>	Europrofile double cylinder (key:key) (mechatronic)	+
K	Assa	44M22 Cliq <sup>4</sup>	Europrofile double cylinder (key:key) (mechatronic)	+
L	Abloy	CY305 Protec	Europrofile double cylinder (key:thumbturn)	+
M	Abloy	CY333 Protec (PT)	Europrofile double cylinder (key:thumbturn)	+
N	Access2	Tigres Omega	Europrofile double cylinder (key:thumbturn)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating <sup>3</sup>
O	Assa	4827	Europrofile double cylinder (key:thumbturn)	+
P	Assa	7627	Europrofile double cylinder (key:thumbturn)	
Q	Assa	44M27 Cliq <sup>4</sup>	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
R	Assa	C5827	Europrofile double cylinder (key:thumbturn)	+
S	Assa	dp4427	Europrofile double cylinder (key:thumbturn)	+
T	Kaba	Gege RAM	Europrofile double cylinder (key:thumbturn)	+
U	Kaba	Quattro PluS	Europrofile double cylinder (key:thumbturn)	+
V	Medeco	M3-ARX	Europrofile double cylinder (key:thumbturn)	+
W	Abloy	CY305 Protec Cliq <sup>4</sup>	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
X	Abloy	CY333 Protec Cliq <sup>4</sup>	Europrofile double cylinder (key:thumbturn) (mechatronic)	+
Y	Abloy	CY403 Protec	Rim cylinder	+
Z	Assa	4857	Rim cylinder	+
AA	Assa	C5857	Rim cylinder	+
AB	Kaba	Quattro PluS	Rim cylinder	+
AC	Medico	M3ARX	Rim cylinder	+
AD	Abloy	CY403 Protec Cliq <sup>4</sup>	Rim cylinder (mechatronic)	+
AE	Abloy	CY201 Protec (PT)	Scandinavian Oval cylinder	+
AF	Abloy	CY201 Protec Cliq <sup>4</sup>	Scandinavian Oval cylinder (mechatronic)	+
AG	Access2	Tigres Omega	Scandinavian Oval cylinder	+
AH	Assa	4801	Scandinavian Oval cylinder	+
AI	Assa	7601	Scandinavian Oval cylinder	
AJ	Assa	C5801	Scandinavian Oval cylinder	+
AK	Assa	dp4401	Scandinavian Oval cylinder	+
AL	Kaba	K20	Scandinavian Oval cylinder	
AM	Kaba	Quattro PluS	Scandinavian Oval cylinder	+
AN	Medeco	M3-ARX	Scandinavian Oval cylinder	+
AO	Assa	dp4401 Cliq <sup>4</sup>	Scandinavian Oval cylinder (mechatronic)	+
AP	Locken	CL-PL2WR <sup>4</sup>	Scandinavian Oval cylinder (mechatronic)	+

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### Accessories approved on ExcluDoor 6 doorsets

Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 6 vision panel	200 mm wide by 300 mm high (visible area) vision panel located in the top half of the leaf either at the centreline of the leaf or between the centre of the leaf and leading edge <sup>5</sup> .	1 to 9	1 to 9	1 to 9
Door Viewer	Door viewer located in the top half of the leaf	1 to 9	1 to 9	1 to 9

#### Notes:

- The ExcluDoor 6 double leaf doorsets can be produced with leaves of equal and unequal width, with the leaf width being within the following range :
  - Active leaf width between 0.615 m and 1.1695 m (excluding the astragal).
  - Passive leaf width between 0.615 m and 1.1695 m (excluding the astragal).
- The BDT break dome can be used on Tindall Mico locking systems without undermining the security rating achieved 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.
- 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.
- The position of the vision panels depends on the locking hardware fitted. Please refer to the manufacturer for more details.

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