

## Certificate of Product Approval

Certificate Number: 234d Part 5

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 5**  
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  
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## Appendix to Certificate No: 234d Part 5 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 5	Single leaf, outward opening hinged security doorset	1.8	2.4	0.75	1.24	5	234d/09
	Double leaf, outward opening hinged security doorset <sup>1,2</sup>	1.8	2.4	1.24	2.4	5	

### Approved Locking Configurations

LPCB Ref. No.	Product Name	Type	Compatible Locking Systems	
			Active Leaf	Passive Leaf
234d/09	ExcluDoor 5	Single leaf, outward opening hinged security doorset	3 to 48	N/A
	ExcluDoor 5	Double leaf, outward opening hinged security doorset	3 to 48	1 or 2

### 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	Sunray Engineering Limited	Two Sunray internal drop bolts	Internal drop bolt	None	Internal drop bolt	N/A
3	Surelock McGill Limited	Slimline SL305	Three-point emergency exit locking system	None	Handle	N/A
4	Surelock McGill Limited	Slimline SL303 <sup>3</sup>	Three-point locking system	None	Thumb turn and handle	N/A
5	Surelock McGill Limited	Slimline SL301	Three-point locking system	None	Key and handle	N/A
6	Surelock McGill Limited	Slimline SL315-P6	Three-point emergency exit locking system	Key and handle	Handle	Z to AG

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Compatible Locking Systems	Manufacturer	Model	Type	Compatible Operating Devices		Compatible External Cylinders
				External Face	Internal Face	
7	Surelock McGill Limited	Slimline SL313-P6 <sup>3</sup>	Three-point locking system	Key and handle	Thumb turn and handle	Z to AG
8	Surelock McGill Limited	Slimline SL311-P6	Three-point locking system	Key and handle	Key and handle	Z to AG
9	Surelock McGill Limited	Slimline SL325-P6-K2	Three-point emergency exit locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Handle	Z to AG
10	Surelock McGill Limited	Slimline SL323-P6-K2 <sup>3</sup>	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Thumb turn/ access control and handle	Z to AG
11	Surelock McGill Limited	Slimline SL321-P6-K2	Three-point locking system incorporating electro-mechanical access control powered by 12V, 24V or 50V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Key / access control and handle	Z to AG
12	Tindall Engineering Limited	Mico Abryll PE3	Single-point emergency exit locking system	None	Handle	N/A
13	Tindall Engineering Limited	Mico Abryll AD3 <sup>3</sup>	Single-point locking system with automatic deadlock	None	Thumb turn and handle	N/A
14	Tindall Engineering Limited	Mico Abryll AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
15	Tindall Engineering Limited	Mico Abryll EPC AD3	Single-point locking system with automatic deadlock	None	Key and handle	N/A
16	Tindall Engineering Limited	Mico Abryll SATE AD3 / USCH5	Single-point emergency exit locking system with automatic deadlock	Key and handle	Handle	Y, AB, AC, AF to AT

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				External Face	Internal Face	
17	Tindall Engineering Limited	Mico Abyrll EPC SATE AD3 / USCH5	Single-point emergency exit locking system with automatic deadlock	Key and handle	Handle	AU to BH
18	Tindall Engineering Limited	Mico Abyrll AD3 / USCH5 <sup>3</sup>	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	Y, AB, AC, AF to AT
19	Tindall Engineering Limited	Mico Abyrll AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
20	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Thumb turn and handle	L to X
21	Tindall Engineering Limited	Mico Abyrll EPC AD3 / USCH5	Single-point locking system with automatic deadlock	Key and handle	Key and handle	A to K
22	Tindall Engineering Limited	Mico Abyrll MD3 <sup>3</sup>	Single-point locking system with manual deadlock	None	Thumb turn and handle	N/A
23	Tindall Engineering Limited	Mico Abyrll MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
24	Tindall Engineering Limited	Mico Abyrll EPC MD3	Single-point locking system with manual deadlock	None	Key and handle	N/A
25	Tindall Engineering Limited	Mico Abyrll MD3 / USCH5 <sup>3</sup>	Single-point locking system with manual deadlock	Key and handle	Thumb turn and handle	Y, AB, AC, AF to AT
26	Tindall Engineering Limited	Mico Abyrll MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Key and handle	Y, AB, AC, AF to AT
27	Tindall Engineering Limited	Mico Abyrll EPC MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Thumb turn and handle	L to X

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				External Face	Internal Face	
28	Tindall Engineering Limited	Mico Abryll EPC MD3 / USCH5	Single-point locking system with manual deadlock	Key and handle	Key and handle	A to K
29	Tindall Engineering Limited	Mico Abryll MD2 <sup>3</sup>	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a thumb turn <sup>5</sup>	N/A
30	Tindall Engineering Limited	Mico Abryll MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key <sup>5</sup>	N/A
31	Tindall Engineering Limited	Mico Abryll EPC MD2	Single-point locking system with manual deadlock	None	Full width push pad deadlocked by a key <sup>5</sup>	N/A
32	Tindall Engineering Limited	Mico Abryll MD2 / USCH5 <sup>3</sup>	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumb turn <sup>5</sup>	Y, AB, AC, AF to AT
33	Tindall Engineering Limited	Mico Abryll MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key <sup>5</sup>	Y, AB, AC, AF to AT
34	Tindall Engineering Limited	Mico Abryll EPC MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a thumb turn <sup>5</sup>	L to X
35	Tindall Engineering Limited	Mico Abryll EPC MD2 / USCH5	Single-point locking system with manual deadlock	Key and handle	Full width push pad deadlocked by a key <sup>5</sup>	A to K
36	Tindall Engineering Limited	Mico Abryll MD1 <sup>3</sup>	Single-point locking system with manual deadlock	None	Push pad deadlocked by a thumb turn <sup>5</sup>	N/A
37	Tindall Engineering Limited	Mico Abryll MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key <sup>5</sup>	N/A
38	Tindall Engineering Limited	Mico Abryll EPC MD1	Single-point locking system with manual deadlock	None	Push pad deadlocked by a key <sup>5</sup>	N/A

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				External Face	Internal Face	
39	Tindall Engineering Limited	Mico Abyrll MD1 / USCH5 <sup>3</sup>	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumb turn <sup>5</sup>	Y, AB, AC, AF to AT
40	Tindall Engineering Limited	Mico Abyrll MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key <sup>5</sup>	Y, AB, AC, AF to AT
41	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a thumb turn <sup>5</sup>	L to X
42	Tindall Engineering Limited	Mico Abyrll EPC MD1 / USCH5	Single-point locking system with manual deadlock	Key and handle	Push pad deadlocked by a key <sup>5</sup>	A to K
43	Tindall Engineering Limited	Mico Abyrll SATE EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Handle	Y, AB, AC, AF to AT
44	Tindall Engineering Limited	Mico Abyrll EPC SATE EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Handle	AU to BH
45	Tindall Engineering Limited	Mico Abyrll EPC EM3 / USCH5	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Thumb turn/ access control and handle	L to X
46	Tindall Engineering Limited	Mico Abyrll EM3 / USCH5 <sup>3</sup>	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Thumb turn/ access control and handle	Y, AB, AC, AF to AT

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				External Face	Internal Face	
47	Tindall Engineering Limited	Mico Abryll EPC EM3 / USCH5	Single-point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Key / access control and handle	A to K
48	Tindall Engineering Limited	Mico Abryll EM3 / USCH5	Single-point emergency exit device with automatic solenoid deadlock and electro-mechanical access control powered by 12 V, 24 V or 50 V solenoid <sup>4</sup>	Handle plus external access control entry device and key override	Key / access control and handle	Y, AB, AC, AF to AT

### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating <sup>6</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>7</sup>	Europrofile double cylinder (key:key) (mechatronic)	+
K	Assa	44M22 Cliq <sup>7</sup>	Europrofile double cylinder (key:key) (mechatronic)	+
L	Abloy	CY305 Protec	Europrofile double cylinder (key:thumbturn turn)	+
M	Abloy	CY333 Protec (PT)	Europrofile double cylinder (key:thumbturn turn)	+
N	Access2	Tigres Omega	Europrofile double cylinder (key:thumbturn turn)	+
O	Assa	4827	Europrofile double cylinder (key:thumbturn turn)	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating <sup>6</sup>
P	Assa	7627	Europrofile double cylinder (key:thumbturn turn)	
Q	Assa	44M27 Cliq <sup>7</sup>	Europrofile double cylinder (key:thumbturn turn) (mechatronic)	+
R	Assa	C5827	Europrofile double cylinder (key:thumbturn turn)	+
S	Assa	dp4427	Europrofile double cylinder (key:thumbturn turn)	+
T	Kaba	Gege RAM	Europrofile double cylinder (key:thumbturn turn)	+
U	Kaba	Quattro PluS	Europrofile double cylinder (key:thumbturn turn)	+
V	Medeco	M3-ARX	Europrofile double cylinder (key:thumbturn turn)	+
W	Abloy	CY305 Protec Cliq <sup>7</sup>	Europrofile double cylinder (key:thumbturn turn) (mechatronic)	+
X	Abloy	CY333 Protec Cliq <sup>7</sup>	Europrofile double cylinder (key:thumbturn turn) (mechatronic)	+
Y	Abloy	CY403 Protec	Rim cylinder	+
Z	Abloy	CY405 Disklock Pro (DP)	Rim cylinder	+
AA	Abloy	CY405 ProTec (PT)	Rim cylinder	+
AB	Assa	4857	Rim cylinder	+
AC	Assa	C5857	Rim cylinder	+
AD	Bramah	C17	Rim cylinder	
AE	Kaba	K20	Rim cylinder	
AF	Kaba	Quattro PluS	Rim cylinder	+
AG	Medico	M3ARX	Rim cylinder	+
AH	Abloy	CY403 Protec Cliq <sup>7</sup>	Rim cylinder (mechatronic)	+
AI	Abloy	CY201 Protec (PT)	Scandinavian Oval cylinder	+
AJ	Abloy	CY201 Protec Cliq <sup>7</sup>	Scandinavian Oval cylinder (mechatronic)	+
AK	Access2	Tigres Omega	Scandinavian Oval cylinder	+
AL	Assa	4801	Scandinavian Oval cylinder	+
AM	Assa	7601	Scandinavian Oval cylinder	
AN	Assa	C5801	Scandinavian Oval cylinder	+
AO	Assa	dp4401	Scandinavian Oval cylinder	+

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Cylinder Reference	Manufacturer	Model	Type	'Plus' Rating <sup>6</sup>
AP	Kaba	K20	Scandinavian Oval cylinder	
AQ	Kaba	Quattro PluS	Scandinavian Oval cylinder	+
AR	Medeco	M3-ARX	Scandinavian Oval cylinder	+
AS	Assa	dp4401 Cliq <sup>7</sup>	Scandinavian Oval cylinder (mechatronic)	+
AT	Locken	CL-PL2WR <sup>7</sup>	Scandinavian Oval cylinder (mechatronic)	+
AU	Abloy	Protec CY303	Europrofile single cylinder	+
AV	Abloy	Protec Cliq CY303 <sup>7</sup>	Europrofile single cylinder	+
AW	Access2	Tigris Omega	Europrofile single cylinder	+
AX	Access2	Tigris Plus	Europrofile single cylinder	
AY	Access2	Tigris Premier Two	Europrofile single cylinder	+
AZ	ASSA	4423	Europrofile single cylinder	+
BA	ASSA	44M23 Cliq <sup>7</sup>	Europrofile single cylinder	+
BB	ASSA	4823	Europrofile single cylinder	
BC	ASSA	C5823	Europrofile single cylinder	+
BD	ASSA	7623	Europrofile single cylinder	
BE	Kaba	Gege RAM	Europrofile single cylinder	+
BF	Kaba	Gege pExtra	Europrofile single cylinder	+
BG	Kaba	Quattro PluS	Europrofile single cylinder	+
BH	Medeco	M3-ARX	Europrofile single cylinder	+

### Accessories approved on ExcluDoor 5 doorsets

Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluGlass 5 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>8</sup>	1 to 48	1 to 48	1 to 28, 32 to 48

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Accessory	Description	Compatible Locking Systems		
		Threshold		
		Full Frame	Low Level with Stop	Low Level
ExcluVent 5 louvre panel located in the top half of the leaf <sup>2</sup>	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf <sup>8</sup>	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 30, 31, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 30, 31, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42
ExcluVent 5 louvre panel located in the bottom half of the leaf <sup>2</sup>	400 mm wide by 400 mm high (vent area) louvre vent located in the top half of the leaf <sup>8</sup>	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 30, 31, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 30, 31, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 30, 31, 33, 35, 37, 38, 40, 42
ExcluVent 5 louvre panels located in the top and bottom halves of the leaf <sup>2</sup>	400 mm wide by 400 mm high (vent area) louvre vent located in the top and bottom halves of the leaf <sup>8</sup>	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42
ExcluGlass 5 vision panel located in the top half of the leaf with ExcluVent 5 louvre panel located in the bottom half of the leaf <sup>2</sup>	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, and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf <sup>8</sup>	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42
Door viewer	Door viewer located in the top half of the leaf	1 to 48	1 to 48	1 to 28, 32 to 48
Door viewer located in the top half of the leaf with ExcluVent 5 louvre panel located in the bottom half of the leaf <sup>2</sup>	Door viewer located in the top half of the leaf and 400 mm wide by 400 mm high (vent area) louvre vent located in the bottom half of the leaf <sup>8</sup>	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42	1, 2, 5, 8, 14, 15, 19, 21, 23, 24, 26, 28, 33, 35, 37, 38, 40, 42

### Notes:

- The ExcluDoor 5 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 0.47 m and 1.714 m (excluding the astragal).
- The ExcluDoor 5 double leaf doorsets incorporating ExcluVent 5 louvre panels achieve Security Rating 4 when placed in the minimum locked condition and incorporating locking systems 12 to 47 on the active leaf and locking system 1 on the passive leaf. The ExcluDoor 5

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*P. Dillon*

Signed for BRE Global Ltd.

Paul Dillon  
Verifier

9 May 2023  
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## Appendix to Certificate No: 234d Part 5 Sunray Engineering Limited

Issue: 06

double leaf doorsets incorporating locking systems 23 or 24 and ExcluVent 5 louvre panels achieve Security Rating 4 when placed in the minimum locked condition. The ExcluDoor 5 doorsets incorporating locking systems 29 to 31 and 36 to 38 achieve Security Rating 3 when placed in the minimum locked condition. All other ExcluDoor 5 double leaf doorset configurations achieve Security Rating 5 when placed in the minimum locked condition.

3. The K4 break dome can be used on Surelock McGill locking systems and the BDT break dome can be used on Tindall Mico locking systems without undermining the security rating achieved by the doorset.
4. 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 control devices and system configurations that may be used with these locking systems is “infinite”. It is therefore recommended that Sunray Engineering 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.
5. 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 942-3 INT MD or Slimline SL313-P5-H6. 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.
6. 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.
7. 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.
8. The position of the vision panels/louvre vents depends on the locking hardware fitted. Please refer to the manufacturer for more details.

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