

## Certificate of Product Approval

Certificate Number: 1051a

Issue: 09

### Morgan Marine Limited

Llandybie  
Ammanford  
Carmarthenshire  
SA18 3GY



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:

#### Products

**Morgan Titan SR2**  
**Morgan Titan SR3**  
**Morgan Titan SR4**  
GRP security enclosures

#### 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 LPCB

Paul Dillon  
Verifier

07 September 2018  
Date of Issue

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## Appendix to Certificate No: 1051a Morgan Marine Limited

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### GRP Security Enclosures

Product Name	Product Type	Nominal Minimum Height <sup>1</sup> (m)	Nominal Maximum Height <sup>1</sup> (m)	Nominal Minimum External Width (m)	Nominal Maximum External Width (m)	Nominal Minimum External Length (m)	Nominal Maximum External Length (m)	Security Rating	LPCB Ref. No.
Morgan Titan SR2	GRP security enclosure	1.0	5.0	1.0 <sup>2</sup>	14.0	1.0 <sup>2</sup>	30.0	2 <sup>3</sup>	1051a/01
Morgan Titan SR3	GRP security enclosure	1.0	5.0	1.0 <sup>4</sup>	14.0	1.0 <sup>4</sup>	30.0	3 <sup>5</sup>	1051a/02
Morgan Titan SR4	GRP security enclosure	1.0	5.0	1.0 <sup>6</sup>	14.0	1.0 <sup>6</sup>	30.0	4 <sup>7</sup>	1051a/03

### Compatible Doorsets

Compatible Doorsets							GRP Enclosures		
Product Name	Manufacturer	Type	Minimum Clear Opening Height (m)	Maximum Clear Opening Height (m)	Minimum Clear Opening Width (m)	Maximum Clear Opening Width (m)	Morgan Titan SR2	Morgan Titan SR3	Morgan Titan SR4
Titan SR3	Morgan Marine Limited	Single leaf GRP outward opening doorset	0.8 <sup>8</sup>	2.4	0.5 <sup>9</sup>	1.2	✓	✓	
		Double leaf GRP outward opening doorset	0.8 <sup>8</sup>	2.4	1.0 <sup>9</sup>	2.4	✓	✓	
Hercules SAF 2	PSF Wales Limited	Single leaf steel outward opening doorset	0.8	2.9	0.48	1.45	✓		
		Double leaf steel outward opening doorset	0.8	2.9	0.7	2.6	✓		

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Compatible Doorsets							GRP Enclosures		
Product Name	Manufacturer	Type	Minimum Clear Opening Height (m)	Maximum Clear Opening Height (m)	Minimum Clear Opening Width (m)	Maximum Clear Opening Width (m)	Morgan Titan SR2	Morgan Titan SR3	Morgan Titan SR4
Mk. II Hercules SAF 3	PSF Wales Limited	Single leaf steel outward opening doorset	0.6 <sup>10</sup>	2.92 <sup>10,12</sup>	0.688 <sup>10,12</sup>	1.508 <sup>10</sup>	✓	✓	
		Double leaf steel outward opening doorset	0.6 <sup>11</sup>	2.92 <sup>11,12</sup>	1.288 <sup>11,12</sup>	2.858 <sup>11</sup>	✓	✓	
MK.II Hercules SAF 4	PSF Wales Limited	Single leaf steel outward opening doorset	0.6 <sup>12</sup>	2.92 <sup>12</sup>	0.688	1.508			✓
		Double leaf steel outward opening doorset	0.6 <sup>12</sup>	2.92 <sup>12</sup>	1.288	2.858			✓

### Compatible Locking Options

Compatible Doorsets			Compatible Locking Systems	
Model	Manufacturer	Type	Active Leaf <sup>13</sup>	Passive Leaf
Titan SR3	Morgan Marine Limited	Single leaf GRP outward opening doorset	1, 2, 4, 5, 7, 8, 16, 18,19, 20, 21, 22, 23, 24, 25 and 26	N/A
		Double leaf GRP outward opening doorset	1, 2, 4, 5, 7, 8, 16, 18,19, 20, 21, 22, 23, 24, 25 and 26	28
Hercules SAF 2	PSF Wales Limited	Single leaf steel outward opening doorset	6	N/A
		Double leaf steel outward opening doorset	6	27
Mk. II Hercules SAF 3	PSF Wales Limited	Single leaf steel outward opening doorset	2, 3, 5, 7, 17, 18 and 23	N/A
		Double leaf steel outward opening doorset	2, 3, 5, 7, 17, 18 and 23	27
MK.II Hercules SAF 4	PSF Wales Limited	Single leaf steel outward opening doorset	9, 10, 11, 12, 13, 14 and 15	N/A
		Double leaf steel outward opening doorset	9, 10, 11, 12, 13, 14 and 15	27

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### Compatible Locking System

Compatible Locking System	Manufacturer	Model	Type	Operation		Compatible Cylinders/ Padlocks
				Entry	Exit	
1	Tindall Engineering Limited	Mico Abryll PE 1	Single-point emergency exit device	None	Push pad	N/A
2	Tindall Engineering Limited	Mico Abryll SATE AD1 / USCH3	Single-point emergency exit device with automatic deadlock	Key via cylinder guard and lever handle	Push pad	A to W
3	Tindall Engineering Limited	Mico Abryll SATE AD3 / USCH3	Single-point emergency exit device with automatic deadlock	Key via cylinder guard and lever handle	Lever handle	A to W
4	Tindall Engineering Limited	Mico Abryll PE 1/Hasp and Staple SR3	Single-point emergency exit device with padlockable entry	Mico SR3 Hasp and staple with padlock	Push pad	a to e
5	Tindall Engineering Limited	Mico Abryll ADX / USCH3	Single-point auto-deadlocking system with external cylinder access	Key via cylinder guard and lever handle	None	A to W
6	Tindall Engineering Limited	Mico Abryll AD3 / USCH2	Single-point auto-deadlocking auto-bolting system with external cylinder access	Key via cylinder guard and lever handle	Thumbturn and lever handle	A to Y
7	Tindall Engineering Limited	Mico Abryll AD 3 / USCH3	Single-point locking system with automatic deadlock	Key via cylinder guard and lever handle	Thumb turn and lever handle	A to W
8	Tindall Engineering Limited	Mico Abryll AD 3 / USCH3	Single-point locking system with automatic deadlock	Key via cylinder guard and lever handle	Key and lever handle	A to W
9	Tindall Engineering Limited	Abryll AD1 SATE / USCH4	Single-point auto-deadlocking auto-bolting emergency exit system with external cylinder access	Key and lever handle	Push pad	A to W
10	Tindall Engineering Limited	Abryll AD3 / USCH4	Single-point auto-deadlocking auto-bolting system with external cylinder access	Key and lever handle	Thumbturn and lever handle	A to W
11	Tindall Engineering Limited	Abryll AD3 SATE / USCH4	Single-point auto-bolting emergency exit system with external cylinder access	Key and lever handle	Lever handle	A to W

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				Entry	Exit	
12	Tindall Engineering Limited	Abyll EM3 / USCH4	Single point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V <sup>14, 15</sup>	Electro-mechanical access control device with key override and lever handle	Electro-mechanical access control device with thumbturn override and lever handle	A to W
13	Tindall Engineering Limited	Abyll ADX / USCH4	Single-point auto-deadlocking system with external cylinder access	Key and lever handle	None	A to W
14	Tindall Engineering	Abyll MDX / USCH4	Single-point manual-deadlocking system with external cylinder access	Key and lever handle	None	A to W
15	Tindall Engineering	Abyll EMX / USCH4	Single point locking system with automatic solenoid deadlock and electro-mechanical access control powered by 12 V <sup>14, 15</sup>	Electro-mechanical access control device with key override and lever handle	None	A to W
16	Tindall Engineering Limited	Mico 942P	Two-point emergency exit device	None	Push pad	N/A
17	Tindall Engineering Limited	Mico 942L SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key via cylinder guard and lever handle	Lever handle	A to W
18	Tindall Engineering Limited	Mico 942P SATE AD / USCH3	Two-point emergency exit device with automatic deadlock	Key via cylinder guard and lever handle	Push pad	A to W
19	Tindall Engineering Limited	Mico 942-3P	Three point emergency exit device	None	Push pad	N/A
20	Tindall Engineering Limited	Mico 942-3P SATE AD / USCH3	Three point emergency exit device with automatic deadlock	Key via cylinder guard and lever handle	Push pad	A to W
21	Tindall Engineering Limited	Mico 942P/ Hasp and Staple SR3	Two-point emergency exit device with padlockable entry	Mico SR3 Hasp and staple with padlock	Push pad	a to e
22	Tindall Engineering Limited	Mico 942-3P/ Hasp and Staple SR3	Three point emergency exit device with padlockable entry	Mico SR3 Hasp and staple with padlock	Push pad	a to e

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				Entry	Exit	
23	Tindall Engineering Limited	Mico 942L INT AD / USCH3	Two-point locking system with automatic deadlocking	Key via cylinder guard and lever handle	Thumb turn and lever handle	A to W
24	Tindall Engineering Limited	Mico 942L INT AD / USCH3	Two-point locking system with automatic deadlocking	Key via cylinder guard and lever handle	Key and lever handle	A to W
25	Tindall Engineering Limited	Mico 942-3L INT AD / USCH3	Three point locking system with automatic deadlocking	Key via cylinder guard and lever handle	Thumb turn and lever handle	A to W
26	Tindall Engineering Limited	Mico 942-3L INT AD / USCH3	Three point locking system with automatic deadlocking	Key via cylinder guard and lever handle	Key and lever handle	A to W
27	Commercial Body Fittings Limited	Sprung tower bolt	Two sprung tower bolts	-	Two sprung tower bolts	N/A
28	Tindall Engineering Limited	Tower bolts	Two tower bolts	-	Two tower bolts	N/A

### Compatible Cylinders

Cylinder Reference	Manufacturer	Model	Type
A	Abloy	Protec CY201 PT	Scandinavian Oval
B	Abloy	Disklock Pro CY201 DP	Scandinavian Oval
C	Abloy	Protec Cliq CY201 <sup>16</sup>	Scandinavian Oval (mechatronic)
D	ASSA	4401dp	Scandinavian Oval
E	ASSA	4401 Cliq <sup>16</sup>	Scandinavian Oval (mechatronic)
F	ASSA	4407dp	Scandinavian Oval
G	ASSA	4407 Cliq <sup>16</sup>	Scandinavian Oval (mechatronic)
H	ASSA	4801	Scandinavian Oval
I	ASSA	4807	Scandinavian Oval
J	ASSA	C5801	Scandinavian Oval
K	ASSA	C5807	Scandinavian Oval
L	ASSA	Twin 7601	Scandinavian Oval
M	ASSA	Twin 7607	Scandinavian Oval

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Cylinder Reference	Manufacturer	Model	Type
N	Kaba	K20	Scandinavian Oval
O	Kaba	Quattro Plus	Scandinavian Oval
P	Locken	CL-PL2WR <sup>16</sup>	Scandinavian Oval (mechatronic)
Q	Medeco	M3-ARX	Scandinavian Oval
R	Abloy	Protec CY403	Rim
S	Abloy	Protec Cliq CY403 <sup>16</sup>	Rim (mechatronic)
T	Kaba	Quattro Plus	Rim
U	Medeco	M3-ARX	Rim
V	ASSA	4857	Round Threaded
W	ASSA	C5857	Round Threaded
X	Access2	Tigris Omega	Scandinavian Oval
Y	Yale	1109 X5	Rim

### Compatible Padlocks

Compatible Padlock	Manufacturer	Model	Cylinders
a	Abloy	PL340/25 (V01)	Abloy Disklock Pro
			Abloy Exec
			Abloy High Profile
			Abloy Novel
			Abloy Protec1
			Abloy Protec2
			Abloy Sentry
b	Abloy	PL350/25 (V01)	Abloy Disklock Pro
			Abloy Exec
			Abloy High Profile
			Abloy Novel
			Abloy Protec1
			Abloy Protec2
			Abloy Sentry
c	Kaba	KP18	Kaba K20
d	Squire	SS65S LEV3	Squire 6 pin
e	Squire	SS65 M3ARX LEV3	Medico M3 ARX

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### Accessories For Use Within The Doorsets

Product Name	Type	Doorsets On Which The Accessories May Be Used			
		Titan SR3	Hercules SAF2	Mk.II Hercules SAF 3	Mk.II Hercules SAF 4
'SR3 cat flap'	Service penetration with lockable <sup>17</sup> flaps of dimensions ranging between 0.2 m by 0.2 m and 0.4 m by 0.4 m.	✓		✓	
'SR4 cat flap'	Service penetration with lockable <sup>17</sup> flaps of dimensions ranging between 0.2 m by 0.2 m and 0.4 m by 0.4 m.				✓
Hercules SAF 3 Louvre <sup>18</sup>	Steel security louvre vent			✓	
Hercules SAF 4 Louvre <sup>19</sup>	Steel security louvre vent				✓
Low-threshold frame	Alternative door frame with lower threshold.			✓	✓
'SR2' vision panel	Vision panel incorporating Tecdur® Secure Glass <sup>20</sup> SC40 BR4NS specialist laminated security glazing supplied by Hamilton Erskine. The visions panels have 'daylight' <sup>21</sup> dimensions ranging from 0.2 m by 0.2 m up to 0.4 m by 0.4 m.		✓		
'SR4' vision panel	Vision panels incorporating Tecdur® Secure Glass <sup>20</sup> DC51 GG specialist laminated security glazing supplied by Hamilton Erskine. The visions panels have 'daylight' <sup>21</sup> dimensions ranging from 0.2 m by 0.2 m up to 0.4 m by 0.4 m.			✓	✓

### Approved Optional Design Features on Enclosure

Optional Design Feature	GRP Enclosure		
	Morgan Titan SR2	Morgan Titan SR3	Morgan Titan SR4
Alternative applied finishes: -Textured -Timber - Brick - Stone	✓	✓	✓
Hercules SAF 4 louvre vent <sup>22,23</sup>			✓
Removable roof	✓	✓	✓
Shrouded vents with cowls measuring 0.3 m wide by 0.3 m high by 0.1 m deep up to 1.1 m wide by 1.1 m high by 0.7 m deep <sup>22, 24, 25</sup>	✓	✓	✓
SR3 Cat-flaps measuring 0.2 m wide by 0.2 m high up to 0.4 m wide by 0.4 m high <sup>22, 26, 28</sup>	✓	✓	
SR4 Cat-flaps measuring 0.2 m wide by 0.2 m high up to 0.4 m wide by 0.4 m high <sup>22, 27, 28</sup>			✓
Steel base of minimum 125 mm by 65 mm by 15 mm PFC or 127 mm by 76 mm by 13 mm UB <sup>29</sup>	✓	✓	✓

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### Notes:

1. The height is measured from the ground to the underside of the roof panel.
2. The minimum width/length of Morgan Titan SR2 enclosures was 1.03 m when incorporating a Hercules SAF 2 double leaf doorset in that plane, 1.33 m when incorporating a Titan SR3 double leaf doorset in that plane and 1.618 m when incorporating a Mk. II Hercules SAF 3 double leaf doorset in that plane.
3. This is achieved when all lock bolts on the doorset are fully engaged and deadlocked. The enclosures fitted with Hercules SAF 2 and Hercules SAF 3 double leaf outward opening doorsets only achieve Security Rating 1 when a single barrel bolt is engaged on the passive leaf and the locking system on the active leaf is engaged and deadlocked.
4. The minimum width/length of the Morgan Titan SR3 enclosures was 1.33 m when incorporating a Titan SR3 double leaf doorset in that plane or 1.618 m when incorporating a Mk. II Hercules SAF 3 double leaf doorset in that plane.
5. The Morgan Titan SR3 enclosures incorporating double leaf doorsets achieve Security Rating 3 when both sprung tower bolts on the passive leaf are engaged and the lock mechanism fitted to the primary leaf is engaged and deadlocked. A Security Rating 1 classification prevails if one of the sprung tower bolts on the passive leaf is not engaged.
6. The minimum width/length of the Morgan Titan SR4 enclosures was 1.618 m when incorporating a Mk. II Hercules SAF 4 double leaf doorset in that plane.
7. The Morgan Titan SR4 enclosures incorporating double leaf doorsets achieve Security Rating 4 when both sprung tower bolts on the passive leaf are engaged and the lock mechanism fitted to the primary leaf is engaged and deadlocked. A Security Rating 3 classification prevails if one of the sprung tower bolts on the passive leaf is not engaged.
8. Locking options 4 to 7 are not approved on the Titan GRP doorsets incorporating door leaves less than 1 m high.
9. Only locking options 5, 8, 17 and 19 are approved for use on the Titan GRP doorsets when the width of the door leaf is less than 0.75 m.
10. The Mk. II Hercules SAF 3 single leaf doorsets incorporating locking options 2, 3 and 7 were available in sizes ranging between 0.6 m and 2.92 m height and between 0.688 m and 1.508 m width. The Mk. II Hercules SAF 3 single leaf doorsets incorporating locking options 10, 11 and 16 were available in sizes ranging between 1.11 m and 2.345 m height and between 0.688 m and 1.508 m width.
11. Mk. II Hercules SAF 3 double leaf doorsets incorporating locking options 2, 3 and 7 were available in sizes ranging between 0.6 m and 2.92 m height and between 1.288 m and 2.858 m width. The Mk. II Hercules SAF 3 double leaf doorsets incorporating locking options 10, 11 and 16 were available in sizes ranging between 1.11 m and 2.345 m height and between 1.288 m and 2.22 m width.
12. The minimum and maximum heights of the doorsets incorporating the low-threshold frame option are 0.044 m shorter than these dimensions.
13. Locking options 16, 18, 19, 20, 21, 22, 23, 24, 25 and 26 were not approved on enclosures less than 1.5 m in height.
14. Fail secure version only.
15. The resistance of the access control locks to "non-mechanical" attack is not 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 the user satisfies 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.
16. The resistance of the mechatronic cylinder to 'non-mechanical' attack is outside the scope of this approval because it is outside the scope of LPS 1175: Issue 7. Likewise, this approval does not cover the possible effects of any susceptibilities relating to the functionality and performance of the keys that may be used to operate the cylinder. It is therefore recommended that specifiers and installers satisfy

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themselves that the components used are either resistant to mechanical and other forms of tampering/abuse and are resistant to any environmental conditions/interference that may cause the lock to disengage.

17. The cat flaps do not undermine the security rating attributed to the doorsets when installed in the doorsets in locations defined on document 'SR3-4 CF 09' (Revision B). This is providing the cat flap remains secured in the closed position. The security rating attributed to the doorset is invalid when the cat flap is left open or unsecured because the aperture protected by the flap may be exploited when the flap is not secured in the closed position.
18. The approval covers the use of individual 'Hercules SAF 3' louvre vents (LPCB reference number 953e/01) on certain sizes of the 'MK.II Hercules SAF 3' doorsets. The use of 'banked' louvre vents within the 'MK.II Hercules SAF 3' doorsets is not covered. Guidance on the suitability of different sizes of louvre panels within the doorsets can be found on drawings 'LDF-01SR3' Issue C and 'LDF-02SR3' Issue C.
19. The approval covers the use of individual 'Hercules SAF 4' louvre vents (LPCB reference number 953e/02) on certain sizes of the 'MK.II Hercules SAF 4' doorsets. The use of 'banked' louvre vents within the 'MK.II Hercules SAF 3' doorsets is not covered. Guidance on the suitability of different sizes of louvre panels within the doorsets can be found on drawings 'LDF-01SR4' Issue B and 'LDF-02SR4' Issue A.
20. 'Tectur® Secure Glass' is also known under the abbreviation 'TSG'.
21. This equates to the dimensions of the vision panel through which it is possible to view the other side of the doorset.
22. The approval does not cover the provision of any other apertures within the fabric of the enclosure, e.g. for ventilation or other services, other than that provided by the shrouded vent, louvre or cat-flap listed in the list of approved optional design features.
23. The approval covers the use of the 'Hercules SAF 4' louvre vents (LPCB reference number 953e/02). The louvre vents must be located at least 0.3 m away from locking options 13, 14 and 15 present on MK.II Hercules SAF 4 doorsets, and 1.2 m away from all other types of locking mechanisms on MK.II Hercules SAF doorsets.
24. The shrouded vents must be located at least 0.3 m away from non-single action escape locking hardware present on doorsets fitted within the Titan SR2 and Titan SR3 enclosures. The shrouded vent must be located at least 1.2 m away from any single action escape mechanism.
25. The shrouded vents must be located at least 0.3 m away from locking options 13, 14 and 15 present on MK.II Hercules SAF 4 doorsets, and 1.2 m away from all other types of locking mechanisms on MK.II Hercules SAF doorsets.
26. The SR3 cat-flaps must be located at least 0.5 m away from locking hardware present on the active leaf of doorsets used within the Morgan Titan SR2 and SR3 enclosures, and 0.3 m away from any passive leaf hardware.
27. The SR4 cat-flaps must be located at least 0.3 m away from locking options 13, 14 and 15 present on MK.II Hercules SAF 4 doorsets, and 1.2 m away from all other types of locking mechanisms on MK.II Hercules SAF doorsets.
28. The security rating attributed to the enclosure when incorporating a catflap is based on the catflap being secured in the closed position. The security rating attributed to the enclosure is invalid if the cat flap is left open or unsecured because the aperture protected by the flap may be exploited when the flap is not secured in the closed position.
29. The approval covers the enclosures when installed onto flat or stepped concrete bases of equivalent resistance to attack or steel bases, using the method of installation defined on drawing MDS 015 (Revision Q dated 11 October 2013) and MDS 038 (Revision K dated 11 November 2016).

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

Signed for LPCB

Paul Dillon  
Verifier

07 September 2018  
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Date of First Issue



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