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## CERTIFICATE OF APPROVAL

### No CF 5490

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This is to certify that, in accordance with  
TS00 General Requirements for Certification of Fire Protection Products  
The undermentioned products of

## LIDLAW GULF LLC

PO Box 185292, Rm 301 Mayfair Building, Dubai Investment Park  
Phase 1, Dubai, UAE

Tel: +9714 885 7404

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### CERTIFIED PRODUCT

Laidlaw Gulf LLC – Mortice Locks  
and Latches

#### TECHNICAL SCHEDULE

TS23 The Contribution of  
Locks and Latches to The  
Performance of Fire Resisting  
Doorsets

Signed and sealed for and on behalf of Exova (UK) Limited trading as  
Warrington Certification



Paul Duggan  
Certification Manager



Issued: 25<sup>th</sup> October 2016  
Revised: 29<sup>th</sup> November 2018  
Valid to: 9<sup>th</sup> September 2023

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**CERTIFICATE No CF 5490**  
**LIDLAW GULF LLC**

**Laidlaw Gulf LLC Locks and Latches**

1. This certification is provided to the client for its own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
2. This approval applies only to the following Laidlaw Gulf LLC locks and latches :

Ref.	Description
<b>LG.LA60</b>	Mortice Sashlock – 55 mm & 60 mm backset
<b>LG.LA64</b>	Mortice Night Latch – 55 mm & 60 mm backset
<b>LG.LA61</b>	Mortice Deadlock – 55 mm & 60 mm backset
<b>LG.LA62</b>	Mortice Passage Lock – 55 mm & 60 mm backset
<b>LG.LA63</b>	Mortice Bathroom Lock – 55 mm & 60 mm backset
<b>11 861</b>	Mortice Sashlock – 60 mm backset
<b>10 862</b>	Mortice Night Latch – 60 mm backset
<b>12 861</b>	Mortice Deadlock – 60 mm backset
<b>13 861</b>	Mortice Passage Lock – 60 mm backset
<b>13 862</b>	Mortice Bathroom Lock – 60 mm backset
<b>11 871</b>	Mortice Sashlock – 70 mm backset
<b>10 872</b>	Mortice Night Latch – 70 mm backset
<b>12 871</b>	Mortice Deadlock – 70 mm backset
<b>13 871</b>	Mortice Passage Lock – 70 mm backset
<b>13 872</b>	Mortice Bathroom Lock – 70 mm backset

The range is supplied with a maximum 240 x 24 mm forend. The lockcase is steel, and the forends, latch bolts, dead bolts and strike plates are all of stainless steel. The approval includes the above lock models in square or radius forend/strike.

3. The locks and latches are approved on the basis of:
  - i) Initial type testing to EN 1634-1 and EN 12209: 2003
  - ii) An appraisal against TS23
  - ii) Certification of quality management system.
  - iii) Inspection and surveillance of factory production control
  - v) Ongoing audit testing in accordance with TS23 requirements

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#### Laidlaw Gulf LLC Locks and Latches

4. This approval relates to their use with the following door assemblies: -

**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of 30 minutes (Code ITT).**

**Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in timber frames having a fire resistance of 60 minutes (Code ITT).**

**Latched and unlatched, door assemblies consisting of insulated metal door assemblies in metal frames with a minimum door leaf thickness of 72 mm, and with intumescent seals, having a insulation of at least 30 minutes, and an integrity performance of up to 120 minutes (Code IMM).**

5. The mortice locks and/or latches should only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987), the critical aspects of the doorset construction are considered to be the material of the door frame, the leaf to frame clearance gaps and the lipping material. Attention should be paid to these details and these should not be amended from that previously fire tested. The following minimum specification will be followed:

Timber-based assemblies:

- i) Door frame density - 450 kg/m<sup>3</sup> (30 minutes), 640 kg/m<sup>3</sup> (60 minutes)
- ii) Door leaves shall have a minimum thickness of 44 mm for 30 minute applications and 54 mm for 60 minute applications.
- iii) Lipping density - 640 kg/m<sup>3</sup>.

Steel-based assemblies (Code IMM)

- i) Door leaves shall have a minimum thickness of 72 mm.
- ii) Doorsets shall have an insulation performance of at least 30 minutes, and an integrity performance of up to 120 minutes when tested to EN1634-1 or BS 476: Part 22: 1987
- iii) The doorset shall incorporate intumescent perimeter fire seals.

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#### Laidlaw Gulf LLC Locks and Latches

6. When fitted to insulated timber or mineral composite door assemblies, The required protection will be as follows:
- The required protection for 30 and 60 minute ITT applications will be 2 mm thick Interdens mono ammonium phosphate intumescent sheet behind the forend and strike/keep plates and 1 mm thick Interdens mono ammonium phosphate intumescent sheet around the lock case for all doorset assemblies.
  - Additionally for 60 minute ITT applications only, the perimeter intumescent within the frame/door edge shall by-pass the strike plate or forend by a minimum of 8.5 mm wide on each side (with the exception of the latchbolt lead where present).

*Failure to install the protection will invalidate this certificate*

7. The mortice locks and/or latches and their associated strikeplates and keeps may only be fitted in the manner described in this certificate and subject to any limitations on the inclusion of locks/latches specified for the door leaf. This approval is applicable only to the specified locks used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and when using appropriate intumescent protection.
8. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
9. The mortice locks to ITT 30 and 60 may incorporate Euro profile cylinders manufactured of brass or steel, and IMM 120 doorsets may incorporate Euro profile cylinders manufactured of steel only, as follows:
- Single cylinder
  - Double cylinder
  - Cylinder and thumbturn
10. The lock keeps/strikeplates to ITT 30 and 60 doorsets only may incorporate plastic back-boxes providing the intumescent protection identified above is maintained.
11. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
12. The ITT doorsets shall be installed in accordance with BS 8214
13. The approval relates to on-going production. Product and/or its immediate packaging are identified with the manufacturer's name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

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LAIDLAW GULF LLC**

**Laidlaw Gulf LLC Locks and Latches**

14. The following table shows acceptable doorset types and fire resistance periods:

Class	Approved Door Type					
	IMM	MM	TT	ITT	ITM	ITC
FD20	✓*	✗	✗	✗	✗	✗
FD30	✓*	✗	✗	✓	✗	✗
FD60	✓*	✗	✗	✓	✗	✗
FD90	✓*	✗	✗	✗	✗	✗
FD120	✓*	✗	✗	✗	✗	✗
FD240	✓*	✗	✗	✗	✗	✗
E 20	✗	✗	✗	✗	✗	✗
EI 20	✓*	✗	✗	✗	✗	✗
E 30	✗	✗	✗	✓	✗	✗
EI 30	✓*	✗	✗	✓	✗	✗
E 60	✗	✗	✗	✓	✗	✗
EI 60	✓*	✗	✗	✓	✗	✗
E 90	✗	✗	✗	✗	✗	✗
EI 90	✓*	✗	✗	✗	✗	✗
E 120	✗	✗	✗	✗	✗	✗
EI 120	✓*	✗	✗	✗	✗	✗
E 240	✗	✗	✗	✗	✗	✗
EI 240	✓*	✗	✗	✗	✗	✗

**Key:**

- ✓ Approved
- ✗ Not approved
- ✓\* Approved for use with doorsets with an insulation performance of at least 30 minutes when tested to EN1634-1 or BS 476: Part 22: 1987, and incorporating a minimum door thickness of 72 mm only



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### Laidlaw Gulf LLC Locks and Latches

15. Doors are classified as the following types:

**Type MM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

**Type IMM** - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

**Type ITT** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

**Type ITM** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

**Type ITC** - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

### Limitations of Approval

- Strikeplates/keeps
  - The range of locks/latches is approved with a range of strikeplates/keeps, all of which are steel. The a maximum size permitted for use on all doorsets is as follows:

Width	22 mm (exc. Lip)
Height	240 mm
Thickness	1.5 mm
Latchbolt- Lip Height	50 mm

- The lock keeps/strikeplates in ITT doorset only may incorporate plastic back-boxes providing the intumescent protection identified in Section 6 is maintained.
- IMM steel-based doorsets
  - Door leaves shall have a minimum thickness of 72 mm.
  - Doorsets shall have an insulation performance of at least 30 minutes, and an integrity performance of up to 120 minutes when tested to EN1634-1 or BS 476: Part 22: 1987
  - The doorset shall incorporate intumescent perimeter fire seals.

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**Laidlaw Gulf LLC Locks and Latches**

**Classification codes**

The above approval provides the following classifications:

LG.LA60, 11 861 and 11 871 Sashlock

3	X	8	1	0	G	3	B	C	2	0
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LG.LA64, 10 862 and 10 872 Night Latch

3	X	8	1	0	G	1	B	B	2	0
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12 861 and 12 871 Deadlock

3	X	8	1	0	G	3	B	C	0	0
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LG.LA62, 13 861 and 13 871 Passage Lock

3	X	8	1	0	G	0	B	0	2	0
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LG.LA63, 13 862 and 13872 Bathroom Lock

3	X	8	1	0	G	0	B	G	2	0
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**Further Information**

Further information regarding the details contained in this certificate may be obtained from Laidlaw Gulf LLC (Tel: +9714 885 7404).

Further information regarding CERTIFIRE certification and other approved products can be obtained from CERTIFIRE (Tel: 01925 646777)