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## CERTIFICATE OF APPROVAL

### No CF 577

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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

## HOPPE (UK) LIMITED

Gailey Park, Gravelly Way, Standeford,  
Wolverhampton, WV10 7GW

Tel: 01902 484400 Fax: 01902 484406

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

ARRONE Locks & Latches:  
AR8003, AR8004, AR8005,  
AR8006, AR8007 & AR8023

#### TECHNICAL SCHEDULE

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

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan  
Certification Manager



Issued: 28<sup>th</sup> January 2008  
Reissued: 21 August 2019  
Valid to: 20<sup>th</sup> August 2024

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#### ARRONE Locks and Latches

1. The ARRONE locks and latches covered by this certificate are all steel cased with steel latchbolts and deadbolts. This approval relates to the following specific locks/latches:
  - AR8003 – Oval Profile Mortice Sashlock Case
  - AR8004 – Euro Profile Mortice Sashlock Case
  - AR8005 – Oval Profile Mortice Deadlock Case
  - AR8006 – Euro Profile Mortice Deadlock Case
  - AR8007 – Upright Mortice Latch
  - AR8023 – Bathroom Lock (5 mm Follower)
  - AR8023 – Bathroom Lock (8 mm Follower)
2. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
3. 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 or 60 minutes (Code ITT).**
4. The locks and latches are approved on the basis of:
  - i) Initial type testing to EN 1634-1 and EN 12209
  - ii) An appraisal against TS23 or TS31 (where relevant)
  - iii) Certification of quality management system.
  - iv) Inspection and surveillance of factory production control
  - v) On-going audit testing in accordance with TS23 requirements
5. The door assembly shall be a CERTIFIRE approved product or have achieved the appropriate fire resistance performance when tested at a UKAS accredited laboratory in accordance with BS 476: Part 22: 1987 and/or BS EN 1634:1.
6. The locks/latches 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 doorset. This approval is applicable only to the specified locks used with door assemblies of proven fire resistance (as defined in BS EN 1634-1) and when using appropriate intumescent protection.
7. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
8. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched doorset assemblies.



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#### ARRONE Locks and Latches

9. 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>.
10. When fitted to insulated timber or mineral composite door assemblies, The required protection will be as follows:
- a. The required protection for 30 minute ITT applications will be 1 mm thick Interdens mono ammonium intumescent sheet material around the lock case and behind the forend and strike plate.
  - b. The required protection for 60 minute ITT applications will be 1 mm thick Interdens mono ammonium phosphate intumescent sheet material around the lock case and behind the forend and strike plate.
  - c. 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 4 mm wide on each side (with the exception of the latchbolt lead where present).

*Note: Failure to install the protection will invalidate this certificate*

11. A plastic back box may be incorporated behind the strikeplates for both 30 minute and 60 minute ITT applications.
12. Locks/latches shall only be fitted using the fixings supplied by the manufacturer.
13. Recessing for locks and strikeplates shall result in a tight fit, allowing for any intumescent protection where required.
14. Timber doorsets shall be installed in accordance with BS 8214.



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### ARRONE Locks and Latches

15. The approval relates to on-going production. Products and/or their immediate packaging is 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.
16. The following table shows the acceptable doorset types and fire resistance periods:

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

#### Key:

- ✓ - approved  
x - Not approved



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17. 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.

### Classification codes

This approval provides the following classifications for the locks and latches as detailed:

#### Oval Profile Mortice Sashlock Case

Model	Description	Classification
AR8003	Oval Mortice Sashlock Case	2 H 8 1 0 F 2 B A 2 0

Approved in 63 and 76 mm backsets and SC and EB finishes

#### Euro Profile Mortice Sashlock Case

Model	Description	Classification
AR8004	Euro Mortice Sashlock Case	2 H 8 1 0 F 2 B A 2 0

Approved in 63 and 76 mm backsets and SC and EB finishes



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#### Classification codes – Cont'd

##### **Oval Profile Mortice Deadlock Case**

Model	Description	Classification
AR8005	Oval Mortice Deadlock Case	2 H 8 1 0 F 2 B A 0 0

Approved in 63 and 76 mm backsets and SC and EB finishes

##### **Euro Profile Mortice Deadlock Case**

Model	Description	Classification
AR8006	Euro Mortice Deadlock Case	2 H 8 1 0 F 2 B A 0 0

Approved in 63 and 76 mm backsets and SC and EB finishes

##### **Bathroom Lock (5 mm Follower)**

Model	Description	Classification
AR8023	Bathroom Mortice Lock 5mm Follower	2 H 8 1 0 F - B 0 2 0

Approved in 63 and 76 mm backsets and SC and EB finishes

##### **Bathroom Lock (8 mm Follower)**

Model	Description	Classification
AR8023	Bathroom Mortice Lock 8mm Follower	2 H 8 1 0 F - B 0 2 0

Approved in 63 and 76 mm backsets and SC and EB finishes



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### ARRONE Locks and Latches

#### Classification codes – Cont'd

##### Upright Mortice Latch

Model	Description	Classification
AR8007	Upright Mortice Latch	2 H 8 1 0 F - B 0 2 0

Approved in 63 and 76 mm backsets and SC and EB finishes

#### Scope of Approval :

- All Latchbolts are steel with a minimum 13 mm throw.
- Strikeplates/keeps
  - The Arrone range of locks/latches is approved with a range of strikeplates/keeps. All of which are steel and the a maximum size permitted for use on all doorsets is as follows:

width	30 mm (exc. Lip)
height	174 mm
thickness	1.8 mm
Latchbolt- lip height	99 mm

- The lock keeps/strikeplates may incorporate plastic back-boxes

#### Further Information

Further information regarding the details contained in this certificate may be obtained from HOPPE (UK) Ltd (Tel: 01902 484400).

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