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## CERTIFICATE OF APPROVAL

### No CF 877

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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

## ERA HOME SECURITY LTD T/A ZOO HARDWARE

Unit B, Dukes Drive, Kingmoor Park North,  
Carlisle, Cumbria CA6 4SH, United Kingdom  
Tel: 01228 672900 Fax: 01228 672928

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

Zoo Hardware ZUK, ZTL  
& ZFB Locks and Latches

#### TECHNICAL SCHEDULE

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

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

Paul Duggan  
Certification Manager



Issued: 15<sup>th</sup> February 2012  
Revised: 6<sup>th</sup> December 2023  
Valid to: 19<sup>th</sup> July 2027





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#### Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

1. 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.
2. This approval applies only to the following Zoo Hardware locks and latches detailed in Section 19 of this certificate.
3. This approval relates to their use with the following door assemblies: -  
  
**Code ITT - 20 minute to 60 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**
4. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets, as defined in BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987.
5. The locks are approved on the basis of:
  - i) Initial type testing to EN 1634-1 and EN 12209
  - ii) An appraisal against TS23
  - ii) Certification of quality management system.
  - iii) Inspection and surveillance of factory production control
  - iv) On-going audit testing in accordance with TS23 requirements
6. EN1634-1 was issued originally in 2000, with amended versions issued in 2008, 2014 and 2018. The differences between each version are mainly procedural and are not considered to have a practical impact on the performance of the samples under test. On this basis this evaluation is consider applicable to all versions of EN1634-1 issued prior to the issue of this certificate.
7. The mortice locks and/or latches shall only be used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476-22) with similar size locks and strikeplates, 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.
8. The following minimum specification shall be followed, unless the chosen doorset has evidence to the contrary with locks/strikeplates of a similar size/specification:

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##### Timber-based assemblies (Code ITT30 and ITT60):

- i) Door frame minimum 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 minimum density - 640 kg/m<sup>3</sup>.
9. When fitted to insulated ITT 30 or ITT60 timber or mineral composite door assemblies, the required protection will be as follows:
- a) ZFB Series Fire Brigade Mortice Deadlocks:
    - i. The required protection for 30 minute and 60 minute ITT applications will be 0.8 mm Flexifire graphite-based sheet material around the lock case and behind the forend and strike plate.
    - ii. Additionally for 60 minute ITT applications only, the perimeter intumescent fire seal within the frame/door edge shall by-pass the strike plate or forend by a minimum of 6 mm wide on each.
  - b) ZUK locks/latches:
    - i. The required protection for 30 minute and 60 minute ITT applications will be 1 mm thick mono ammonium phosphate or Flexifire graphite-based sheet material around the lock case and behind the forend and strike plate.
    - ii. Additionally for 60 minute ITT applications only, the perimeter intumescent fire seal 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 lip where present).
  - c) ZTL latches:
    - i. The required protection for 30 minute and 60 minute ITT applications will be 1 mm thick mono ammonium phosphate or Flexifire graphite-based sheet material around the lock case and behind the forend and strike plate.
    - ii. Additionally for 60 minute ITT applications only, the perimeter intumescent fire seal within the frame/door edge shall by-pass the strike plate or forend by a minimum of 6.5 mm wide on each side (with the exception of the latchbolt lip where present).

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

10. 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) and when using appropriate intumescent protection.



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#### Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

11. Recessing for locks and strikeplates shall result in a tight fit, allowing for any intumescent protection where required.
12. The locks/latches should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.
13. The spindle hole through the door shall be a maximum of 16 mm diameter unless the doorset has test evidence that proves spindle holes of a greater size than this.
14. Cylinders shall only be fitted to doors which have previously been shown capable of accommodating the installation of cylinder locks without detriment to the doorset's performance.
15. The ZUK Series locks/latches may incorporate Euro profile cylinders as follows:
  - i) Single cylinder
  - ii) Double cylinder
  - iii) Cylinder and thumbturn
  - iv) Brass or steel cylinders for ITT30 and 60 doorsets

*Note: The cylinder hole in the door face shall follow the shape of the cylinders and be as tight as possible; furthermore the single cylinders door preparation will penetrate through only half the thickness of the door leaf)*

16. Lock assemblies not incorporating a latching mechanism, i.e. deadlocks and ZFB01 & ZFB02 locks, shall only be fitted to proven unlatched door assemblies.
17. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.
18. All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/ maximum size (e.g. forend, case, strikeplate, etc.), and the application of any additional intumescent protection.

On this basis approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope.

19. The approval relates to on-going production. Product and/or its 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.

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

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

**Key:**

- ✓ - approved
- x - Not approved





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### Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

21. Doors are classified as the following types:

**Code ITT** - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

**Code ITM** - 20 minute to 120 minute door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.

**Code MM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

**Code IMM** - 20 to 240 minute doorsets consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

22. Approved lock/latch models and classifications:

Lock/Latch Reference	Description	Classification to EN 12209										
ZFB01	Mortice Fire Brigade Deadlock – 51.5 mm	3	H	8	1	0	G	-	K	D	0	0
ZFB02	Mortice Fire Brigade Deadlock – 51.5 mm											
ZUKS564	5 Lever Sash Lock - 64mm	2	H	8	1	0	G	2	B	D	2	B
ZUKS576	5 Lever Sash Lock - 76mm											
ZUKS364	3 Lever Sash Lock - 64mm	2	H	8	1	0	G	2	B	D	2	A
ZUKS376	3 Lever Sash Lock - 76mm											
ZUKD564	5 Lever Dead Lock - 64mm	2	H	8	1	0	G	2	B	D	0	B
ZUKD576	5 Lever Dead Lock - 76mm											
ZUKD364	3 Lever Dead Lock - 64mm	2	H	8	1	0	G	2	B	D	0	A
ZUKD376	3 Lever Dead Lock - 76mm											

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#### Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

23. Approved lock/latch models and classifications (continued).

Lock/Latch Reference	Description	Classification to EN 12209										
ZUKF64	Flat Latch - 64mm	2	H	8	1	0	G	-	B	0	2	0
ZUKF76	Flat Latch - 76mm											
ZUKF102	Flat Latch - 102mm											
ZUKU64	Upright Latch - 64mm											
ZUKU76	Upright Latch - 76mm											
ZUKS64EP	Euro Profile Sash Lock - 64mm	2	H	8	1	0	G	2	B	A	2	0
ZUKS76EP	Euro Profile Sash Lock - 76mm											
ZUKD64EP	Euro Profile Dead Lock - 64mm	2	H	8	1	0	G	2	B	A	0	0
ZUKD76EP	Euro Profile Dead Lock - 76mm											
ZUKUD64EP	Upright Euro Dead Lock - 64mm											
ZUKUD76EP	Upright Euro Dead Lock - 76mm											
ZUKB64	Bathroom Lock - 64mm	2	H	8	1	0	G	-	B	G	2	0
ZUKB76	Bathroom Lock - 76mm											
ZTLKA64	Architectural, 64mm, 1 Way Action	1	C	7	1	0	F	-	B	0	NPD	0
ZTLKA76	Tubular latch – Architectural, 76mm, 1 Way Action											

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### Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

#### Scope of Approval :

- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals.
- ITT door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- The locks/latches are approved in finishes SS, PS and PVD and are available with square or radius forends.
- Strikeplates/keeps

- The ZFB series mortice Fire Brigade deadlocks are approved with a stainless steel keeps as follows:

width	26 mm
height	90 mm
thickness	2.5 mm
Latchbolt- lip height	N/A

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

width	30 mm (exc. Lip)
height	181 mm
thickness	2 mm
Latchbolt- lip height	100 mm

Or

width	40 mm (inc. full height Lip)
height	120 mm
thickness	1.5 mm
Latchbolt- lip height	120 mm

- The ZTL series tubular latches are approved with a range of strikeplates/keeps. All of which are steel, and the maximum size permitted for use on all doorsets is as follows:

width	25 mm (exc. Lip)
height	65 mm
thickness	1.5 mm
Latchbolt- lip height	40 mm







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Zoo Hardware ZUK, ZTL & ZFB Locks and Latches

**Further Information**

Further information regarding the details contained in this certificate may be obtained from Zoo Hardware Ltd (Tel: 01228 672900).

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

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CXE96273-19

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