



CERTIFICATE OF APPROVAL

No CF 877

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

ZOO HARDWARE LIMITED

Unit B, Dukes Drive, Kingmoor Park North,
Carlisle, Cumbria CA6 4SH

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:

CERTIFIED PRODUCT

Zoo UK Size 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: 15th February 2012
Revised: 17th June 2020
Valid to: 4th July 2022





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Zoo Hardware UK Size Locks and Latches

1. This approval applies only to the Zoo Hardware locks and latches detailed later in this certificate.
2. 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 up to 60 minutes (Code ITT).
3. 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.
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 or BS 476: Part 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 to ISO 9001.
 - iii) Inspection and surveillance of factory production control
 - iv) On-going audit testing in accordance with TS23 requirements
6. 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 shall be followed:

Timber-based assemblies (Code ITT30 and ITT60):
 - i) Door frame density - 450 kg/m³ (30 minutes), 640 kg/m³ (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/m³.



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7. When fitted to insulated ITT 30 or ITT60 timber or mineral composite door assemblies, the required protection will be as follows:
- i) The required protection for 30 minute ITT applications will be 1 mm thick mono ammonium phosphate or graphite-based sheet material around the lock case and behind the forend and strike plate.
 - ii) The required protection for 60 minute ITT applications will be 2 mm thick mono ammonium phosphate or graphite-based sheet material around the lock case and behind the forend and strike plate.
 - iii) 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).

Note: Failure to install the protection will invalidate this certificate

8. 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.
9. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
10. The locks/latches should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.
11. Timber doorsets shall be installed in accordance with BS 8214.
12. 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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13. 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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14. 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.



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15. Approved lock/latch models and classifications:

Lock/Latch Reference	Description	Classification to EN 12209										
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											
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											
ZUKS64OP	Oval Profile Sash Lock - 64mm											
ZUKS76OP	Oval Profile Sash Lock - 76mm											

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

Lock/Latch Reference	Description	Classification to EN 12209: 2003										
ZUKD64EP	Euro Profile Dead Lock - 64mm	2	H	8	1	0	G	2	B	A	0	0
ZUKD76EP	Euro Profile Dead Lock - 76mm											
ZUKD64OP	Oval Profile Dead Lock - 64mm											
ZUKD76OP	Oval Profile Dead Lock - 76mm											
ZUKUD64EP	Upright Euro Dead Lock - 64mm											
ZUKUD76EP	Upright Euro Dead Lock - 76mm											
ZUKUD64OP	Upright Oval Dead Lock - 64mm											
ZUKUD76OP	Upright Oval Dead Lock - 76mm											
ZUKB64	Bathroom Lock - 64mm	2	H	8	1	0	G	-	B	G	2	0
ZUKB76	Bathroom Lock - 76mm											

Scope of approval

- The locks/latches are available with square or radius forends
- The locks/latches are approved in finishes SS, PS and PVD.

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).