



CERTIFICATE OF APPROVAL

No CF 850

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 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

Vier Precision Design DIN
Locks and Latches

TECHNICAL SCHEDULE

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

TS 31 The Contribution Of
Emergency Exit Devices,
Operated By A Lever Handle Or
Push Pad, To The Performance
Of Fire Resisting Door
Assemblies

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

Paul Duggan
Certification Manager



Issued: 21st December 2011
Revised: 23rd January 2023
Valid to: 2nd December 2026



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ERA HOME SECURITY LTD T/A ZOO HARDWARE LIMITED

Zoo Hardware Vier Precision Design DIN Locks and Latches

1. This approval applies only to the Zoo Hardware Vier Precision Design locks and latches as follows:

ZDL Mortice Case Locks	
Code	Description
ZDL7255	Mortice Sashlock
ZDL7260	Mortice Sashlock
ZDL0055	Mortice Deadlock
ZDL0060	Mortice Deadlock
ZDL0055L	Mortice Latch
ZDL0060L	Mortice Latch
ZDL7855	Mortice Bathroom Lock
ZDL7860	Mortice Bathroom Lock
ZDL7255NL	Mortice Nightlatch
ZDL7260NL	Mortice Nightlatch
ZDL7260ESC	Mortice Escape Lock

ZDL Options:
- 55mm or 60mm Backset
- Square or Radiused Forend

ZDL Roller Bolt DIN Locks	
Code	Description
ZRD7260*	Mortice Roller Sashlock
ZRD7860*	Mortice Roller Bathroom Lock
ZDL7260LL*	Mortice Lift to Lock Set
ZRD0060L*	Mortice Roller Latch

ZDL Roller Bolt Options:
- 60mm Backset only
- Square or Radiused Forend

* Roller latch locks shall only be fitted to proven unlatched doorset assemblies.

VDL Mortice Case Locks	
Code	Description
VDL7255	Mortice Sashlock
VDL7260	Mortice Sashlock
VDL0055	Mortice Deadlock
VDL0060	Mortice Deadlock
VDL0055L	Mortice Latch
VDL0060L	Mortice Latch
VDL7855	Mortice Bathroom Lock
VDL7860	Mortice Bathroom Lock
VDL7255NL	Mortice Nightlatch
VDL7260NL	Mortice Nightlatch

VDL Options:
- 55mm or 60mm Backset
- Square or Radiused Forend

The range is supplied with a 235 mm x 22 mm forends, 14 mm thick case and minimum latchbolt throw of 12.5 mm. The lockcase is steel, and the forends, latch bolts, dead bolts and strike plates are all of stainless steel.





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2. 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.

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

ZDL Series - 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 up to 120 minutes (Code ITT).

ZDL Series - Latched and unlatched, door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with or without intumescent seals having a fire resistance up to 240 minutes (Code IMM/MM)*.

VDL Series - 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 up to 60 minutes (Code ITT).

**EN12209 applications only.*

4. The locks and latches are approved on the basis of:

- i) Initial type testing to EN 1634-1 and EN 12209: 2003/EN 179: 2008 (where relevant)
- 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 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) 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. The following minimum specification will be followed:

Timber-based assemblies:

- 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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ZDL series only - Steel-based assemblies (Code MM/IMM)

- i) Door leaves shall have a minimum thickness of 44 mm for up to 240 minute applications.
 - ii) No additional intumescent protection is required.
6. When fitted to 30 minute and 60 minute insulated timber or mineral composite door assemblies (ITT), the required protection will be as follows:

Option 1 (not permitted where plastic dustboxes are fitted):

- i) The required protection for 30 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.
- ii) 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 2 mm thick intumescent sheet material behind the forend and strike plate.
- iii) 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 7 mm wide on each side (with the exception of the latchbolt lead where present).

Option 2 (To be used with or without plastic dustboxes are fitted):

- i) 30 & 60 minutes ITT applications – Zoo kit reference ZID30G consisting of a 1 mm thick graphite-based intumescent sheet material around all sides and edges of the lock case and a bedding of the same type of material behind the forend and strike plate.
- ii) No additional intumescent protection is required around the plastic dustbox.
- iii) 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 7 mm wide on each side (with the exception of the latchbolt lead where present).

Note: Failure to install the protection will invalidate this certificate

7. A plastic back box may be incorporated behind the strikeplates for 30 minute and 60 minute ITT applications only (see section 6 Option 2 above).



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8. **ZDL Series only** - Timber/mineral-based assemblies (Code ITT 90 and ITT120)

ZDL series locks and latches shall only be fitted in 90 and 120 minute ITT doorsets which have previously been tested with locks/latches of a similar size and specification, subject to the following requirements:

- i. The required intumescent protection shall be as tested by the chosen door manufacturer. In all cases this shall be a minimum of a 2 mm thick Interdens mono ammonium phosphate or graphite-based intumescent sheet material incorporated around the lock case, and a bedding of the same type and thickness of intumescent material behind the forend and strike plate/keep, however, this protection shall be increased as required based on the chosen doorset manufacturers test data.
- ii. Where chosen doorsets are approved in latched configurations only, the chosen doorset shall have been tested with a maximum latch bolt throw of 13 mm.
- iii. Where cylinders are required the chosen doorset shall have been successfully tested with single or double cylinders as required.
- iv. The chosen doorset shall have been successfully tested with a lock/latch of the following minimum size:

Component/dimension	Size (mm)
<i>Basic lockcase:</i>	
• Forend width	22
• Forend Height	235
• Forend thickness	2.7
• Case height	165
• Case width	85
• Case thickness	15
<i>Strike plate:</i>	
• Strike plate width	24 (exc. Lip)
• Strike plate height	180
• Strike plate thickness	1.5
• Strike plate lip height	135

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7. Lock assemblies not incorporating a latching mechanism and those fitted with a roller latch shall only be fitted to proven unlatched doorset assemblies.
8. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
9. 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.
10. The mortice locks 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
 - v) Steel cylinders only for ITT90 and 120 and MM/IMM 240 doorsets

Note: The 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)

11. 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.
12. Recessing for locks shall result in a tight fit, allowing for any intumescent protection where required. Mortices for the latchbolt and deadbolt behind the strikeplate shall be as small as possible.
13. ITT30 and ITT60 doorsets shall be installed in accordance with BS 8214.
14. 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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15. The following table shows acceptable doorset types and fire resistance periods for the ZDL Series only:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
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
 ✓* - EN12209 lock variants only



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Zoo Hardware Vier Precision Design DIN Locks and Latches

16. The following table shows acceptable doorset types and fire resistance periods for the VDL Series only:

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
 ✗ - Not approved



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17. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

Code ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral 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.

Scope of Approval

- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals to the frame rebate or door edge.
- ITT door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- Strikeplates/keeps - The locks/latches are approved with a range of strikeplates/keeps. All of which are steel, and a maximum size permitted for as follows:

ZDL standard	
width	24 mm (exc. Lip)
height	170 mm
thickness	1.5 mm
Latchbolt- lip height	65 mm

ZDL Alternative, ZDL Roller bolt & VDL Standard	
width	24 mm (exc. Lip)
height	180 mm
thickness	1.5 mm
Latchbolt- lip height	135 mm



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Scope of Approval – Cont'd:

- Roller latch locks shall only be fitted to proven unlatched doorset assemblies.
- The lock keeps/strikeplates in 30 and 60 minute ITT doorset only may incorporate plastic back-boxes providing the intumescent protection identified in Section 6 Option 2 is maintained.
- Escape function locks
 - The locks referenced ZDL7260ESC when fitted to comply with the requirements for their escape function in accordance with EN 179: 2008, are only approved when fitted in conjunction with the following approved lever handle sets for use on ITT 30 and 60 minute doorsets only:
 - **Brass levers:**
 - ZB030
 - **Aluminium levers:**
 - ZAA030SA
 - ZAA080SA
 - **Stainless steel levers – 201 grade:**
 - ZCS2030SS
 - ZCS2080SS
 - **Stainless steel levers – 304 grade:**
 - ZCS030SS
 - ZCS080SS
 - ZPS030SS
 - ZPS080SS
 - ZG4S030
 - VIER VS030
 - VIER VS070
 - VIER VS080



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Zoo Hardware Vier Precision Design DIN Locks and Latches

18. Approved lock/latch models and classifications.

Lock/Latch Reference	Description	Classification to EN 12209: 2003											
ZDL7255	Mortice Sashlock	3	X	8	1	0	G	2	B	C	2	0	
ZDL7260	Mortice Sashlock	3	X	8	1	0	G	2	B	C	2	0	
ZDL0055	Mortice Deadlock	3	X	8	1	0	G	2	B	C	0	0	
ZDL0060	Mortice Deadlock	3	X	8	1	0	G	2	B	C	0	0	
ZDL0055L	Mortice Latch	3	X	8	1	0	G	-	B	0	2	0	
ZDL0060L	Mortice Latch	3	X	8	1	0	G	-	B	0	2	0	
ZDL0055NL	Mortice Nightlatch	3	X	8	1	0	G	1	B	B	2	0	
ZDL0060NL	Mortice Nightlatch	3	X	8	1	0	G	1	B	B	2	0	
ZDL7855	Mortice Bathroom Lock	3	X	8	1	0	G	-	B	G	2	0	
ZDL7860	Mortice Bathroom Lock	3	X	8	1	0	G	-	B	G	2	0	
ZRD7260	Mortice Roller Sashlock	3	M	8	1	0	G	-	B	G	2	0	
ZRD7860	Mortice Roller Bathroom Lock	3	M	8	1	0	G	-	B	G	2	0	
ZDL7260LL	Mortice Lift to Lock Set	3	M	8	1	0	G	-	B	G	2	0	
ZRD0060L	Mortice Roller Latch	3	M	8	1	0	G	-	B	0	2	0	

Lock/Latch Reference	Description	Classification to EN 179: 2008									
ZDL7260ESC	Mortice Escape Lock	3	7	6	B	1	4	5	2	A	B/D

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Approved lock/latch models and classifications (continued):

Lock/Latch Reference	Description	Classification to EN 12209: 2003											
VDL7255	Mortice Sashlock	3	X	8	1	0	G	2	B	C	2	0	
VDL7260	Mortice Sashlock	3	X	8	1	0	G	2	B	C	2	0	
VDL0055	Mortice Deadlock	3	X	8	1	0	G	2	B	C	0	0	
VDL0060	Mortice Deadlock	3	X	8	1	0	G	2	B	C	0	0	
VDL0055L	Mortice Latch	3	X	8	1	0	G	-	B	0	2	0	
VDL0060L	Mortice Latch	3	X	8	1	0	G	-	B	0	2	0	
VDL0055NL	Mortice Nightlatch	3	X	8	1	0	G	1	B	0	2	0	
VDL0060NL	Mortice Nightlatch	3	X	8	1	0	G	1	B	0	2	0	
VDL7855	Mortice Bathroom Lock	3	X	8	1	0	G	-	B	G	2	0	
VDL7860	Mortice Bathroom Lock	3	X	8	1	0	G	-	B	G	2	0	

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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