



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

ZOO HARDWARE LIMITED

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

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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 And 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 Exova (UK) Limited trading as
Warrington Certification

Paul Duggan
Certification Manager



Issued: 21st December 2011
Revised: 11th February 2019
Valid to: 12th December 2021

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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:

Lock/Latch Reference	Description
ZDL7255R	Din Euro Sashlock - 72mm c/c Radius Backset 55mm
ZDL7260R	Din Euro Sashlock - 72mm c/c Radius Backset 60mm
ZDL7255	Din Euro Sashlock - 72mm c/c Backset 55mm
ZDL7260	Din Euro Sashlock - 72mm c/c Backset 60mm
ZDL0055R	Din Euro Deadlock Radius Backset 55mm
ZDL0060R	Din Euro Deadlock Radius Backset 60mm
ZDL0055	Din Euro Deadlock Backset 55mm
ZDL0060	Din Euro Deadlock Backset 60mm
ZDL0055FDR	Din Flat Deadlock Radius Backset 55mm
ZDL0060FDR	Din Flat Deadlock Radius Backset 60mm
ZDL0055FD	Din Flat Deadlock Backset 55mm
ZDL0060FD	Din Flat Deadlock Backset 60mm
ZDL0055LR	Din Latch- Latch Radius Forend Backset 55mm
ZDL0060LR	Din Latch- Latch Radius Forend Backset 60mm
ZDL0055L	Din Latch Backset 55mm
ZDL0060L	Din Latch Backset 60mm
ZDL0055FLR	Din Flat Latch Radius Forend Backset 55mm
ZDL0060FLR	Din Flat Latch Radius Forend Backset 60mm
ZDL0055FL	Din Flat Latch Backset 55mm
ZDL0060FL	Din Flat Latch Backset 60mm
ZDL7255NLR	Din Night latch – 72 mm c/c Backset 55mm Radius
ZDL7260NLR	Din Night latch – 72 mm c/c Backset 60mm Radius
ZDL0055NL	Din Night latch – 72 mm c/c Backset 55mm
ZDL0060NL	Din Night latch – 72 mm c/c Backset 60mm
ZDL7855R	Din Bathroom - 78mm c/c Backset 55mm Radius
ZDL7860R	Din Bathroom - 78mm c/c Backset 60mm Radius
ZDL7855	Din Bathroom 78mm c/c Backset 55mm
ZDL7860	Din Bathroom 78mm c/c Backset 60mm
ZDL7260ESCSS	Din Escape Lock 72mm c/c Backset 60mm
ZDL7260ESCRSS	Din Escape Lock 72mm c/c Backset 60mm Radius

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Lock/Latch Reference	Description
ZDL7260LL*	Roller din sash with lift to lock function
ZRD0060L*	Roller din latch
ZRD7260*	Roller din sash lock with cylinder function for dead bolt
ZRD7860*	Roller din bathroom

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

The range is supplied with a 22 mm wide square or radiused forends. The lockcase is steel, and the forends, latch bolts, dead bolts and strike plates are all of stainless steel.

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: -

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).

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

**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), 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:



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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.

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:
- i) The required protection for 30 minute ITT applications will be 1 mm thick Interdens mono ammonium phosphate or graphite-based 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 or graphite-based 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 7.5 mm wide on each side (with the exception of the latchbolt lead where present).

Note: Failure to install the protection will invalidate this certificate



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7. Timber/mineral-based assemblies (Code ITT 90 and ITT120)

Zoo 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

7. A plastic back box may be incorporated behind the strikeplates for 30 minute and 60 minute ITT applications only.





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8. Lock assemblies not incorporating a latching mechanism and those fitted with a roller latch shall only be fitted to proven unlatched doorset assemblies.
9. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
10. Recessing for locks shall result in a tight fit, allowing for any intumescent protection where required.
11. The doorset shall be installed in accordance with BS 8214.
12. 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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13. The following table shows acceptable doorset types and fire resistance periods:

Class	Approved Door Type					
	IMM	MM	ITT	ITM	ITC	TM
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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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: 2003										
ZDL7255R	Din Euro Sashlock - 72mm c/c Radius Backset 55mm	3	X	8	1	0	G	2	B	C	2	0
ZDL7260R	Din Euro Sashlock - 72mm c/c Radius Backset 60mm											
ZDL7255	Din Euro Sashlock - 72mm c/c Backset 55mm											
ZDL7260	Din Euro Sashlock - 72mm c/c Backset 60mm											
ZDL0055R	Din Euro Deadlock Radius Backset 55mm	3	X	8	1	0	G	2	B	C	0	0
ZDL0060R	Din Euro Deadlock Radius Backset 60mm											
ZDL0055	Din Euro Deadlock Backset 55mm											
ZDL0060	Din Euro Deadlock Backset 60mm											
ZDL0055FDR	Din Flat Deadlock Radius Backset 55mm											
ZDL0060FDR	Din Flat Deadlock Radius Backset 60mm											
ZDL0055FD	Din Flat Deadlock Backset 55mm											
ZDL0060FD	Din Flat Deadlock Backset 60mm											
ZDL0055LR	Din Latch- Latch Radius Forend Backset 55mm	3	X	8	1	0	G	-	B	0	2	0
ZDL0060LR	Din Latch- Latch Radius Forend Backset 60mm											
ZDL0055L	Din Latch Backset 55mm											
ZDL0060L	Din Latch Backset 60mm											

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Approved lock/latch models and classifications (continued).

Lock/Latch Reference	Description	Classification to EN 12209: 2003										
ZDL0055FLR	Din Flat Latch Radius Forend Backset 55mm	3	X	8	1	0	G	-	B	0	2	0
ZDL0060FLR	Din Flat Latch Radius Forend Backset 60mm											
ZDL0055FL	Din Flat Latch Backset 55mm											
ZDL0060FL	Din Flat Latch Backset 60mm											
ZDL7255NLR	Din Night latch – 72 mm c/c Backset 55mm Radius	3	X	8	1	0	G	1	B	B	2	0
ZDL7260NLR	Din Night latch – 72 mm c/c Backset 60mm Radius											
ZDL0055NL	Din Night latch – 72 mm c/c Backset 55mm											
ZDL0060NL	Din Night latch – 72 mm c/c Backset 60mm											
ZDL7855R	Din Bathroom - 78mm c/c Backset 55mm Radius	3	X	8	1	0	G	-	B	G	2	0
ZDL7860R	Din Bathroom - 78mm c/c Backset 60mm Radius											
ZDL7855	Din Bathroom 78mm c/c Backset 55mm											
ZDL7860	Din Bathroom 78mm c/c Backset 60mm											
ZDL7260ESCSS	Din Escape Lock 72mm c/c Backset 60mm	3	X	8	1	0	G	2	B	A	2	0
ZDL7260ESCRSS	Din Escape Lock 72mm c/c Backset 60mm Radius											

Lock/Latch Reference	Description	Classification to EN 179: 2008									
ZDL7260ESCSS	Din Escape Lock 72mm c/c Backset 60mm	3	7	6	B	1	4	5	2	A	B/D
ZDL7260ESCRSS	Din Escape Lock 72mm c/c Backset 60mm Radius										

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Approved lock/latch models and classifications (continued).

Lock/Latch Reference	Description	Classification to EN 12209: 2003										
		3	M	8	1	0	G	-	B	G	2	0
ZDL7260LL	Roller din sash with lift to lock function	3	M	8	1	0	G	-	B	G	2	0
ZRD0060L	Roller din latch	3	M	8	1	0	G	-	B	0	2	0
ZRD7260	Roller din sash lock with cylinder function for dead bolt	3	M	8	1	0	G	2	B	C	2	0
ZRD7860	Roller din bathroom	3	M	8	1	0	G	-	B	G	2	0

The locks/latches are approved in various finishes: SS, PS and PVD.

Scope of Approval

- 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. is maintained.
- Escape function locks
 - The locks referenced ZDL7260ESCSS and ZDL7260ESCRSS 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



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- Escape function locks - Continued
 - **Stainless steel levers – 304 grade:**
 - ZCS030SS
 - ZCS080SS
 - ZPS030SS
 - ZPS080SS
 - ZG4S030
 - VIER VS030
 - VIER VS070
 - VIER VS080

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).

