



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

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 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 Warringtonfire Testing and Certification Limited

Paul Duggan
Certification Manager



Issued: 21st December 2011
Re-issued: 3rd December 2021
Valid to: 2nd December 2026

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CERTIFICATE No CF 850 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:

| 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 |

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| Lock/Latch Reference | Description |
|----------------------|---|
| ZDL7260ESCSS | Din Escape Lock 72mm c/c Backset 60mm |
| ZDL7260ESCRSS | Din Escape Lock 72mm c/c Backset 60mm Radius |
| 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 predominantly steel leaves, hung in steel 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

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Zoo Hardware Vier Precision Design DIN Locks and Latches

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.

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 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 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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Zoo Hardware Vier Precision Design DIN Locks and Latches

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 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 | 2 |
| • 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. 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.
12. 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)

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:

| Class | Approved Door Type | | | | |
|--------|--------------------|----|-----|-----|-----|
| | IMM | MM | ITT | ITM | ITC |
| 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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16. 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 ITC - 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 proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

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.



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Zoo Hardware Vier Precision Design DIN Locks and Latches

17. 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 | | | | | | | | | | | |
| 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 |
| ZDL7260LL | Roller din sash with lift to lock function | 3 | M | 8 | 1 | 0 | G | - | B | G | 2 | 0 |

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Approved lock/latch models and classifications (continued).

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

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

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.
- 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
 - Strikeplates/keeps
 - The range of locks/latches is approved with a range of strikeplates/keeps. All of which are steel and the a maximum size permitted as follows:

- ITT30 & ITT60 doorsets

| | |
|-----------------------|------------------|
| width | 24 mm (exc. Lip) |
| height | 170 mm |
| thickness | 2 mm |
| Latchbolt- lip height | 70 mm |

- ITT90 & ITT120 and MM/IMM 240 doorsets

| | |
|-----------------------|------------------|
| width | 24 mm (exc. Lip) |
| height | 180 mm |
| thickness | 2 mm |
| Latchbolt- lip height | 135 mm |

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).

