CERTIFICATE OF APPROVAL
No CF 5423

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

FRELAN HARDWARE LTD

Unit 10 Mitcham Industrial Estate, Streatham Road,
Mitcham, Surrey, CR4 2AP, United Kingdom
Tel: 0208 6481500

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	TECHNICAL SCHEDULE
Frelan DIN Mortice Locks, Tubular Deadbolts and Tubular Latches	**TS23 The Contribution of Locks and Latches to The Performance of Fire Resisting Doorsets**

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

Paul Duggan
Certification Manager

Issued: 18th January 2017
Reissued: 7th December 2023
Valid to: 8th March 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

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Frelan DIN Mortice Locks, Tubular Deadbolts and Tubular Latches

1. 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.

2. This approval relates to tubular locks and latches as follows:

Reference	Description
JL-HDT63	Tubular Latch 63 mm case
JL-HDT76,	Tubular Latch 76 mm case
JL-HDT102	Tubular Latch 102 mm case
JL-HDB63	Tubular Deadbolt 63 mm case
JL-HDB76	Tubular Deadbolt 76 mm case
JL-HDB102	Tubular Deadbolt 102 mm case
JL-DS60	DIN Standard Sashlock 60mm Backset
JL-DD60	DIN Standard Deadlock 60mm Backset
JL-DB60	DIN Standard Bathroom Lock 60mm Backset
JL-DL60	DIN Standard Latch 60mm Backset
JL-DN60	DIN Nightlatch 60mm Backset
JL-DE60	DIN Escape Lock 60mm Backset

The tubular range is supplied with a 25 mm wide x 60 mm square/radiused forends. The lockcase is steel, and the forends and strike plates are all stainless steel, latchbolt and deadbolts are brass with a 11 mm latchbolt throw.

The DIN range is supplied with a 22 mm wide x 235 mm square/radiused forends. The lockcase is steel, and the forends and strike plates are all stainless steel, latchbolt and deadbolts are steel with a 11 mm latchbolt throw.

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. The locks are approved on the basis of:

i) Initial type testing to EN 1634-1, EN 12209 and EN179 (where relevant)
ii) An appraisal against TS23 and TS31
iii) Certification of quality management system.
iv) Inspection and surveillance of factory production control
v) On-going audit testing in accordance with TS23 and TS31 requirements

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5. 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: Part 22: 1987.

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) 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.

7. The following minimum specification shall be followed, unless the chosen doorset has evidence to the contrary with locks/strikeplates of a similar size/specification:

   Timber-based assemblies:

   i) Door frame minimum density - 450 kg/m³ (30 minutes), 640 kg/m^3 (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^3.

8. When fitted to insulated timber-based door assemblies, 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 2 mm thick Interdens mono ammonium phosphate or graphite-based intumescent sheet material around the lock case and behind the forend and strike plate. Additionally 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

9. The 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 or BS 476: Part 22: 1987) and when using appropriate intumescent protection.

10. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.

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11. The mortice locks and/or latches should only be used with doorsets which have been previously shown to be capable of providing the required fire resistance performance when tested in accordance with EN 1634-1 or BS 476: Part 22: 1987 in the proposed configuration i.e. single-leaf or double-leaf.

12. The tubular latches and deadbolts shall not be fitted higher than 1200 mm from the spindle to the finished floor level of the surrounding floors.

13. The DIN standard mortice lock/latch range shall not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.

14. 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.

15. 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.

16. The DIN mortice locks may incorporate Euro profile cylinders as follows:

    i) Single cylinder
    ii) Double cylinder
    iii) Cylinder and thumbturn
    iv) Brass or steel cylinders

    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)

17. 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.

18. The lock keeps/strikeplates shall **not** incorporate plastic back-boxes. The strikeplates may be provided with or without the latchbolt lead.

19. 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.

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20. 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.

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

	Approved Door Type			
Class	**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

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22. 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.

23. Approved lock/latch models and classifications.

Reference	Description	Classification to EN 12209: 2003										
JL-HDT64	Tubular Latch 64 mm case	1	C	7	1	0	F	-	B	0	NP D	0
JL-HDT76,	Tubular Latch 76 mm case	1	C	7	1	0	F	-	B	0		0
JL-HDT102	Tubular Latch 102 mm case	1	C	7	1	0	F	-	B	0		0
JL-HDB64	Tubular Deadbolt 64 mm case	3	X	8	1	0	G	-	B	G	0	0
JL-HDB76	Tubular Deadbolt 76 mm case	3	X	8	1	0	G	-	B	G	0	0
JL-HDB102	Tubular Deadbolt 102 mm case	3	X	8	1	0	G	-	B	G	0	0
JL-DS60	Din Standard Sashlock	3	X	8	1	0	G	2	B	C	2	0
JL-DD60	Din Standard Deadlock	3	X	8	1	0	G	2	B	C	0	0
JL-DB60	Din Standard Bathroom Lock	3	X	8	1	0	G	-	B	G	2	0
JL-DL60	Din Standard Latch	3	X	8	1	0	G	-	B	0	2	0

Reference	Description	Classification to EN 179: 2008									
JL-DN60	DIN Nightlatch 60mm Backset	3	7	6	B	1	3	4	2	A	B/D
JL-DE60	DIN Escape Lock 60mm Backset	3	7	6	B	1	3	4	2	A	B/D

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.

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Scope of approval – Cont'd:

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

width	25 mm (exc. Lip)
height	65 mm
thickness	1.2 mm
Latchbolt- lip height	40 mm

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

width	25 mm (exc. Lip)
height	180 mm
thickness	1.5 mm
Latchbolt- lip height	148 mm

- The lock keeps/strikeplates shall not incorporate plastic back-boxes.

- Escape function locks
  - The locks referenced JL-DN60 and JL-DE60 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 set:

JSS01	Satin Stainless Steel	RTD Lever c/w 5mm push on rose – 19mm dia
JSS13	Satin Stainless Steel	RTD Lever c/w 8mm push on rose – 19mm dia
JSS213	Satin Stainless Steel	RTD Lever c/w 8mm push on rose – 22mm dia

Further Information

Further information regarding the details contained in this certificate may be obtained from Frelan Hardware Ltd (Tel: 0208 6481500).

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

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