



CERTIFICATE OF APPROVAL

No CF 5845

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

SPARKA UK LTD
Whittington Way, Chesterfield, S41 9AG
0114 350 3414
sales@sparkauk.com

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

Range of Tubular Latches,
and Mortice Locks and Latches

TECHNICAL SCHEDULE

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: 8th June 2020
Re-issued: 9th June 2022
Valid to: 28th April 2027





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SPARKA UK LTD

SPARKA UK Ltd - Tubular Latches and Mortice Locks and Latches

1. 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.
2. The tubular latches, and mortice locks and latches covered by this certificate are all steel cased. The approval applies to the products identified in Annex A & B.

The range consists of tubular latches and mortice locks, lever locks and cylinder locks. All are manufactured with mild steel bodies with mild steel or stainless steel forends and strikeplates. The range is available with latchbolts of cast zinc or brass, and deadbolts of cast zinc, brass and mild steel. The followers are of either cast zinc or brass. The mortice locks and latches have forends that vary from 20 mm to 26.5 mm wide, and 58 mm to 235 mm high which are available square or radiused. The cases are all 15 mm wide.

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

Tubular latches in Annex A - 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).

Mortice locks and latches in Annex B - 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).

4. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets and metallic 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
 - iii) Certification of quality management system to ISO 9001.
 - iv) Inspection and surveillance of factory production control
 - v) On-going audit testing in accordance with TS23 requirements



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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. 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.
7. When fitted to insulated ITT 30 or ITT60 timber or mineral composite door assemblies, the required intumescent protection shall be as follows:
- i) The required protection for 30 minute ITT applications will be 1 mm of Interdens mono ammonium phosphate or graphite 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 of Interdens mono ammonium phosphate or graphite intumescent sheet material, around the lock case and behind the forend and strike plate and base of any backbox.
 - iii) Additionally for 60 minute applications, the perimeter intumescent fire seal 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 lip where present).

Note: Failure to install this 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.



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11. The mortice locks may incorporate cylinders as follows:

- i) Single cylinder
- ii) Double cylinder
- iii) Cylinder and thumbturn
- iv) Brass or steel cylinders for ITT30 and 60 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)

12. 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.
13. Recessing for locks and strikeplates 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.
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. Timber doorsets shall be installed in accordance with BS 8214.
16. 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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17a. The following table shows the acceptable doorset types and fire resistance periods for tubular latches in Annex A:

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
- ✓* - see specific restrictions in Annex A

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17b. The following table shows the acceptable doorset types and fire resistance periods for mortice locks and latches in Annex B:

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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18. 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.

19. Approved lock/latch models and classifications.

- Tubular Latch – Drawing DL01 & DL02:

N	P	D	M	4	1	0	F	-	B	0	1	0
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- Tubular Latch – Drawing DL03 & DL04:

1	M	4	1	0	F	-	B	0	1	0
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- 3 lever mortice sashlock – Drawing DL05:

1	M	4	1	0	F	2	K	D	1	A
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- 3 lever mortice latch – Drawing DL05:

1	M	4	1	0	F	2	K	0	1	0
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19. Approved lock/latch models and classifications – Continued.

- 3 lever deadlock – Drawing DL05:

1	M	4	1	0	F	2	K	D	0	A
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- 3 lever bathroom lock – Drawing DL06:

1	M	4	1	0	F	-	B	G	1	0
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- 5 lever mortice sashlock – Drawing DL07:

2	M	4	1	0	F	3	K	D	1	A
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- 5 lever mortice latch – Drawing DL07:

2	M	4	1	0	F	-	B	0	1	0
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- 5 lever deadlock – Drawing DL08:

2	M	4	1	0	F	3	K	D	0	A
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- Cylinder mortice sashlock – Drawing DL09:

2	M	4	1	0	F	2	B	A	1	0
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- Cylinder mortice latch – Drawing DL09:

2	M	4	1	0	F	2	B	0	1	0
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- Cylinder deadlock – Drawing DL09:

2	M	4	1	0	F	2	B	A	0	0
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- 3 lever mortice deadlock – Drawing DL21:

1	M	4	1	0	F	2	K	D	0	A
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Further Information

Further information regarding the details contained in this certificate may be obtained from SPARKA UK Ltd (Tel: 0114 350 3414) sales@sparkauk.com.

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

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ANNEX A – TUBULAR LATCHES SUITABLE FOR USE ON TIMBER/MINERAL-BASED DOORSETS FOR UP TO 60 MINUTES							
CODE	PRODUCT	LATCH BOLT	DEAD BOLT	FACE PLATE	BODY	FOLLOWER	DRAWING No.
LL2015*	Tubular Latch	Zinc	N/A	MS	MS	Zinc	DL01
LL2016*	Tubular Latch	Zinc	N/A	MS	MS	Zinc	DL01
LL2017*	Tubular Latch	Zinc	N/A	MS	MS	Zinc	DL01
LL2018*	Tubular Latch	Zinc	N/A	MS	MS	Zinc	DL01
LL2010*	Tubular Latch Bolt Thru	Zinc	N/A	MS	MS	Zinc	DL02
LL2011*	Tubular Latch Bolt Thru	Zinc	N/A	MS	MS	Zinc	DL02
LL2012*	Tubular Latch Bolt Thru	Zinc	N/A	MS	MS	Zinc	DL02
LL2019*	Tubular Latch Bolt Thru	Zinc	N/A	MS	MS	Zinc	DL02
LL2020	Arch Tubular Latch	Brass	N/A	MS	MS	Zinc	DL03
LL2021	Arch Tubular Latch	Brass	N/A	MS	MS	Zinc	DL03
LL2022	Arch Tubular Latch	Brass	N/A	MS	MS	Zinc	DL04
LL2023	Arch Tubular Latch	Brass	N/A	MS	MS	Zinc	DL04
LL2013	Arch Tubular Latch Bolt Thru	Brass	N/A	MS	MS	Zinc	DL03
LL2014	Arch Tubular Latch Bolt Thru	Brass	N/A	MS	MS	Zinc	DL04
LL2024	Arch Tubular Latch Bolt Thru	Brass	N/A	MS	MS	Zinc	DL04



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ANNEX B – MORTICE LOCK AND LATCHES SUITABLE FOR USE ON TIMBER/MINERAL-BASED DOORSETS FOR UP TO 60 MINUTES							
CODE	PRODUCT	LATCH BOLT	DEAD BOLT	FACE PLATE	BODY	FOLLOWER	DRAWING No.
LL1013	3 Lvr Mortice Sash Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL05
LL1012	3 Lvr Mortice Sash Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL05
LL1011	3 Lvr Mortice Sash Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL05
LL1010	3 Lvr Mortice Sash Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL05
LL1211	3 Lvr Bathroom Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL06
LL1210	3 Lvr Bathroom Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL06
LL1213	3 Lvr Bathroom Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL06
LL1212	3 Lvr Bathroom Lock T-3	Zinc	Zinc	MS	MS	Zinc	DL06
LL1110	5 Lvr Mortice Sash Lock	Brass	Brass	MS	MS	Brass	DL07
LL1111	5 Lvr Mortice Sash Lock	Brass	Brass	MS	MS	Brass	DL07
LL1114	5 Lvr Mortice Sash Lock	Brass	Brass	MS	MS	Brass	DL07
LL1115	5 Lvr Mortice Sash Lock	Brass	Brass	MS	MS	Brass	DL07
LL1112	5 Lvr Mortice Dead Lock	N/A	Brass	MS	MS	N/A	DL08
LL1113	5 Lvr Mortice Dead Lock	N/A	Brass	MS	MS	N/A	DL08
LL1116	5 Lvr Mortice Dead Lock	N/A	Brass	MS	MS	N/A	DL08
LL1117	5 Lvr Mortice Dead Lock	N/A	Brass	MS	MS	N/A	DL08
LL1610	Euro Cylinder Sash Lock Body Arch.	Brass	Brass	MS	MS	Brass	DL09
LL1611	Euro Cylinder Sash Lock Body Arch.	Brass	Brass	MS	MS	Brass	DL09
LL1614	Euro Cylinder Sash Lock Body Arch.	Brass	Brass	MS	MS	Brass	DL09
LL1615	Euro Cylinder Sash Lock Body Arch.	Brass	Brass	MS	MS	Brass	DL09
LL1612	Euro Cylinder Sash Dead Bolt Arch.	N/A	Brass	MS	MS	N/A	DL09
LL1613	Euro Cylinder Sash Dead Bolt Arch.	N/A	Brass	MS	MS	N/A	DL09
LL1616	Euro Cylinder Sash Dead Bolt Arch.	N/A	Brass	MS	MS	N/A	DL09
LL1617	Euro Cylinder Sash Dead Bolt Arch.	N/A	Brass	MS	MS	N/A	DL09
LL1014	3 Lvr Mortice Dead Lock T-3	N/A	Zinc	MS	MS	N/A	DL21
LL1015	3 Lvr Mortice Dead Lock T-3	N/A	Zinc	MS	MS	N/A	DL21