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## CERTIFICATE OF APPROVAL

### No CF 5788

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

## Frisco UK Sales Limited

Unit 14, Pindar Road, Hoddesdon, Hertfordshire,  
EN11 0DE  
Tel: 01992 443010

Have been assessed against the requirements of the Technical Schedule(s)  
denoted below and are approved for use subject to the conditions  
appended hereto:

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#### 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: 21<sup>st</sup> October 2019  
Reissued: 6<sup>th</sup> May 2022  
Valid to: 28<sup>th</sup> April 2027



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#### Frisco - 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 and C.

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 a 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).**

**Mortice locks and latches in Annex C only - 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 120 minutes (Code ITT).**

**Mortice locks and latches in Annex C only - 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).**

4. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber based doorsets and predominantly steel-based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.



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#### Frisco - Tubular Latches and Mortice Locks and Latches

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
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/m<sup>3</sup> (30 minutes), 640 kg/m<sup>3</sup> (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/m<sup>3</sup>.
- Steel-based assemblies (Code MM/IMM)
- i) Door leaves shall have a minimum thickness of 44 mm for up to 120 minute applications.
  - ii) No additional intumescent protection is required.
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 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 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).

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*Note: Failure to install this protection will invalidate this certificate*

#### Frisco - Tubular Latches and Mortice Locks and Latches

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

Frisco locks and latches in Annex C shall only be fitted in 90 and 120 minute 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 intumescent sheet material incorporated around the lock case and a bedding of the same type and thickness of mono ammonium phosphate or graphite 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. 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). Where the perimeter intumescent fire seal on the original test for the chosen doorset by-passes the locks/strikeplate by more than 7.5 mm, this shall be maintained on the doorset incorporating the Frisco chosen products.
- iii. Where chosen doorsets are approved in latched configurations only, the chosen doorset shall have been tested with a minimum latchbolt of 11.5 mm and a maximum latch bolt throw of 13 mm.
- iv. Where cylinders are required the chosen doorset shall have been successfully tested with single or double cylinders as required.
- v. The chosen doorset shall have been successfully tested with a lock/latch of the following minimum size:

Component/dimension	minimum Size (mm)
<i>Basic lockcase</i>	
Forend width	22
Forend Height	235
Forend thickness	2.5
Case height	170
Case width	74
Case thickness	15
<i>Strike plate</i>	
Strike plate width	24 (exc. Lip)

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Strike plate height	212
Strike plate thickness	1.2
Strike plate lip height	49

#### Frisco - Tubular Latches and Mortice Locks and Latches

##### 8. Timber/mineral-based assemblies (Code ITT 90 and ITT120) – Continued

- vi. The Frisco locks and latches are available in arrange of latchbolt and deadbolt materials, the following restrictions shall therefore apply:

<b>Tested bolt material on Proposed Doorset</b>	<b>Permitted Frisco Bolt Material</b>
Zinc	Zinc, Brass or Steel
Brass	Brass or Steel
Steel	Steel

9. 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.
10. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
11. The locks/latches should not be fitted higher than 1100 mm from the spindle to the finished floor level of the surrounding floors.
12. 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
  - 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)*



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13. 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.
14. 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.

**Frisco - Tubular Latches and Mortice Locks and Latches**

15. 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.
16. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.
17. 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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#### Frisco - Tubular Latches and Mortice Locks and Latches

18a. 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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#### Frisco – Tubular Latches and Mortice Locks and Latches

18b. 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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18c. The following table shows the acceptable doorset types and fire resistance periods for mortice locks and latches in Annex C:

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

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#### Frisco - Tubular Latches and Mortice Locks and Latches

19. 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.

20. Approved lock/latch models and classifications.

- Tubular Latch:

NPD	M	4	1	0	F	-	B	0	1	0
-----	---	---	---	---	---	---	---	---	---	---

- Supa Latch:

1	M	4	1	0	F	-	B	0	1	0
---	---	---	---	---	---	---	---	---	---	---

- 3 lever mortice sashlock:

1	M	4	1	0	F	2	K	D	1	A
---	---	---	---	---	---	---	---	---	---	---

- 3 lever bathroom lock:

1	M	4	1	0	F	-	B	G	1	0
---	---	---	---	---	---	---	---	---	---	---

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#### Frisco - Tubular Latches and Mortice Locks and Latches

21. Approved lock/latch models and classifications – Continued.

- 5 lever mortice sashlock:

2	M	4	1	0	F	3	K	D	1	A
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- 5 lever deadlock:

2	M	4	1	0	F	3	K	D	0	A
---	---	---	---	---	---	---	---	---	---	---

- Cylinder mortice sashlock:

2	M	4	1	0	F	2	B	A	1	0
---	---	---	---	---	---	---	---	---	---	---

- Cylinder deadlock:

2	M	4	1	0	F	2	B	A	0	0
---	---	---	---	---	---	---	---	---	---	---

- DIN Cylinder mortice lock:

2	M	4	1	0	F	2	B	C	1	0
---	---	---	---	---	---	---	---	---	---	---

- DIN Cylinder mortice latch:

2	M	4	1	0	F	-	B	C	1	0
---	---	---	---	---	---	---	---	---	---	---

- DIN Cylinder deadlock:

2	M	4	1	0	F	2	B	C	0	0
---	---	---	---	---	---	---	---	---	---	---

- DIN Bathroom lock:

2	M	4	1	0	F	0	B	G	1	0
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- 3 lever mortice deadlock:

1	M	4	1	0	F	2	K	D	0	A
---	---	---	---	---	---	---	---	---	---	---

#### **Frisco - Tubular Latches and Mortice Locks and Latches**

##### **Scope of approval**

- The locks may not be fitted to timber/mineral-based doorsets without perimeter intumescent fire seals fitted within the frame rebate or door edge.
- Graphite-based intumescent sheet material may be used in lieu of the Interdens protection tested; however it shall be a minimum thickness of 1 mm for 30 minute applications and 2 mm for 60 minute applications and shall have proven test data with locks and strikeplates of a similar size and fire rating.

##### **Further Information**

Further information regarding the details contained in this certificate may be obtained from Frisco UK Sales Limited (Tel: 01992 443010).

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

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#### Frisco - Tubular Latches and Mortice Locks and Latches

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
71270*	EB 63 mm Tubular Mortice Latch - CE	Zinc	N/A	MS	MS	Zinc
71271*	NP 63 mm Tubular Mortice Latch - CE	Zinc	N/A	MS	MS	Zinc
71272*	EB 76 mm Tubular Mortice Latch - CE	Zinc	N/A	MS	MS	Zinc
71273*	NP 76 mm Tubular Mortice Latch - CE	Zinc	N/A	MS	MS	Zinc
71279	EB/SCP 63 mm Supa Latch - CE	Brass	N/A	MS	MS	Zinc
71280	EB/SCP 76 mm Supa Latch - CE	Brass	N/A	MS	MS	Zinc
71281	EB/SCP 102 mm Supa Latch - CE	Brass	N/A	MS	MS	Zinc
71282	EB/SCP 127 mm Supa Latch - CE	Brass	N/A	MS	MS	Zinc

\* Note: Limited to 30 minutes approval only

ANNEX B – MORTICE LOCKS 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
71010	EB 63 mm 3 Lvr Mortice Sashlock - CE	Zinc	Zinc	MS	MS	Zinc
71011	NP 63 mm 3 Lvr Mortice Sashlock - CE	Zinc	Zinc	MS	MS	Zinc
71012	EB 76 mm 3 Lvr Mortice Sashlock - CE	Zinc	Zinc	MS	MS	Zinc
71013	NP 76 mm 3 Lvr Mortice Sashlock - CE	Zinc	Zinc	MS	MS	Zinc
71014	EB 63 mm 3 Lvr Mortice Deadlock - CE	N/A	Zinc	MS	MS	N/A
71015	NP 63 mm 3 Lvr Mortice Deadlock - CE	N/A	Zinc	MS	MS	N/A
71016	EB 76 mm 3 Lvr Mortice Deadlock - CE	N/A	Zinc	MS	MS	N/A
71017	NP 76 mm Mortice Deadlock - CE	N/A	Zinc	MS	MS	N/A
71018	EB 63 mm Mortice Bathroom Lock - CE	Zinc	Zinc	MS	MS	Zinc
71019	NP 63 mm Mortice Bathroom Lock - CE	Zinc	Zinc	MS	MS	Zinc
71020	EB 76 mm Mortice Bathroom Lock - CE	Zinc	Zinc	MS	MS	Zinc
71021	NP 76 mm Mortice Bathroom Lock - CE	Zinc	Zinc	MS	MS	Zinc
71040	EB 63 mm 5 Lvr Mortice Sashlock - CE	Brass	Brass	MS	MS	Brass
71041	SCP 63 mm 5 Lvr Mortice Sashlock - CE	Brass	Brass	MS	MS	Brass
71042	EB 76 mm 5 Lvr Mortice Sashlock - CE	Brass	Brass	MS	MS	Brass
71043	SCP 76 mm 5 Lvr Mortice Sashlock - CE	Brass	Brass	MS	MS	Brass
71044	EB 63 mm 5 Lvr Mortice Deadlock - CE	N/A	Brass	MS	MS	N/A
71045	SCP 63 mm 5 Lvr Mortice Deadlock - CE	N/A	Brass	MS	MS	N/A
71046	EB 76 mm 5 Lvr Mortice Deadlock - CE	N/A	Brass	MS	MS	N/A
71047	SCP 76 mm 5 Lvr Mortice Deadlock - CE	N/A	Brass	MS	MS	N/A
71092	EB 63 mm Euro Profile Sashlock - CE	Brass	Brass	MS	MS	Brass
71093	SCP 63 mm Euro Profile Sashlock - CE	Brass	Brass	MS	MS	Brass
71094	EB 76 mm Euro Profile Sashlock - CE	Brass	Brass	MS	MS	Brass
71095	SCP 76 mm Euro Profile Sashlock - CE	Brass	Brass	MS	MS	Brass
71096	EB 63 mm Euro Profile Deadlock - CE	N/A	Brass	MS	MS	N/A
71097	SCP 63 mm Euro Profile Deadlock - CE	N/A	Brass	MS	MS	N/A

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<b>71098</b>	EB 76 mm Euro Profile Deadlock - CE	N/A	Brass	MS	MS	N/A
<b>71099</b>	SCP 76 mm Euro Profile Deadlock - CE	N/A	Brass	MS	MS	N/A

**Frisco - Tubular Latches and Mortice Locks and Latches**

ANNEX C CONTINUED - MORTICE LOCKS AND LATCHES SUITABLE FOR USE ON TIMBER/MINERAL-BASED DOORSETS AND UNINSULATED/INSULATED STEEL-BASED DOORSET FOR UP TO 120 MINUTES						
<b>CODE</b>	<b>PRODUCT</b>	<b>LATCH BOLT</b>	<b>DEAD BOLT</b>	<b>FACE PLATE</b>	<b>BODY</b>	<b>FOLLOWER</b>
<b>71310</b>	Euro Din Mortice Lock 72 x 60 mm - CE	Brass	Zinc	SS	MS	Brass
<b>71311</b>	Euro Din Mortice Latch 72 x 60 mm - CE	Brass	N/A	SS	MS	Brass
<b>71312</b>	Euro Din Mortice Deadlock 72 x 60 mm - CE	N/A	Zinc	SS	MS	N/A
<b>71313</b>	Euro Din Mortice Bathroom Lock 72 x 60 mm - CE	Brass	Zinc	SS	MS	Brass

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