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## CERTIFICATE OF APPROVAL

### No CF 5395

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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

## Häfele SE & Co KG

Adolf-Haeefe-Str.1, D-72202 Nagold, Germany  
Tel: + 49 7452 95 245

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

Haeefe 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: 2<sup>nd</sup> March 2016  
Reissued: 10<sup>th</sup> September 2021  
Valid to: 9<sup>th</sup> September 2026

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### Häfele SE & Co KG

#### Häfele SE & Co KG - Mortice Locks & Latches

1. The locks and latches covered by this certificate have a maximum 235 mm high x 20 mm or 24 mm wide forend and 15 mm thick case. The latch/deadbolt, case, forend and strikeplates are all of steel, with a minimum latchbolt projection of 12 mm. This approval relates to the following specific locks:

<i>Item No.</i>	<i>Description</i>
911.02.143	Mortice sashlock PC stst.sn.55/20,sq
911.02.145	Mortice sashlock PC stst.sn.55/24,sq
911.02.151	Mortice sashlock PC stst.sn.55/20,rd
911.02.153	Mortice sashlock PC stst.sn.55/24,rd
911.25.200	Mortice sashlock PC stst.gra.bla.55/24,rd
911.25.420	Mortice sashlock PC stst.gra.bla.55/20,sq
911.25.421	Mortice sashlock PC stst.gra.bla.55/20,rd
911.25.422	Mortice sashlock PC stst.gra.bla.55/24,sq
911.25.444	Mortice sashlock PC stst.bp.55/S20
911.25.446	Mortice sashlock PC stst.bp.55/S24
911.25.452	Mortice sashlock PC stst.bp.55/R20
911.25.454	Mortice sashlock PC stst.bp.55/R24
911.02.464	Mortice sashlock PC stst.matt 60/24
911.02.468	Mortice sashlock PC stst.matt 60/24
911.02.480	Mortice sashlock PC stst.matt 65/24
911.02.484	Mortice sashlock PC stst.matt 65/24
911.02.165	Mortice sashlock PC stst.matt 45/24
911.02.161	Mortice sashlock PC stst.matt 60/24
911.02.147	Mortice bathroom lock WC stst.sn.55/20,sq
911.02.149	Mortice bathroom lock WC stst.sn.55/24,sq
911.02.155	Mortice bathroom lock WC stst.sn.55/20,rd
911.02.157	Mortice bathroom lock WC stst.sn.55/24,rd
911.25.204	Mortice bathroom lock PC stst.gra.bla.55/20,sq
911.25.430	Mortice bathroom lock WC stst.gra.bla.55/20,sq
911.25.431	Mortice bathroom lock WC stst.gra.bla.55/20,rd
911.25.432	Mortice bathroom lock WC stst.gra.bla.55/24,sq
911.25.448	Mortice bathroom lock WC stst.bp.55/S20
911.25.450	Mortice bathroom lock WC stst.bp.55/S24
911.25.456	Mortice bathroom lock WC stst.bp.55/R20
911.25.458	Mortice bathroom lock WC stst.bp.55/R24

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<i>Item No.</i>	<i>Description</i>
911.22.490	Mortice deadlock PC stst.ma.55/24
911.22.550	Mortice deadlock PC stst.ma.55/24
911.23.370	Mortice latch lock stst.mat.55/24
911.23.465	Mortice latch lock stst.mat.55/24

2. 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.
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 30, 60 and 90 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).**
4. This approval relates to the use of the above locks/latches in contributing to the fire resistance performance of timber/mineral-based or predominantly steel-based doorsets, as defined in BS EN 1634-1 or BS 476: Part 22: 1987.
5. 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.
6. The locks are approved on the basis of:
  - i) Initial type testing to EN 1634-1 and EN 12209
  - iii) An appraisal against TS23
  - iv) Inspection of quality management system
  - v) Inspection and surveillance of factory production control
  - vi) On-going audit testing in accordance with TS23 requirements
7. 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.

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8. 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 & 60):

- i) Door frame density – minimum 450 kg/m<sup>3</sup> (30 minutes) and 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 – minimum 640 kg/m<sup>3</sup>.

##### Timber-based assemblies (Code ITT90):

- i) Door frame density – minimum 640 kg/m<sup>3</sup> (60 minutes)
- ii) Door frame thickness – minimum 44 mm (excluding stop)
- iii) Door leaves shall have a minimum thickness of 64 mm.
- iv) Lipping density – minimum 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 240 minute applications.
- ii) No additional intumescent protection is required.

9. When fitted to insulated ITT30, ITT60 and ITT90 timber or mineral door assemblies, The required intumescent protection will be as follows:

- i) 30 minute ITT applications will be 1 mm thick 'Interdens' intumescent sheet material around the lock case and 2mm of Interdens material behind the forend and strike plate.
- ii) 60 minute ITT applications will be 1 mm thick 'Interdens' intumescent sheet material around the lock case and 2mm of Interdens material behind the forend and strike plate.
  - 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 8 mm wide on each side (with the exception of the latchbolt lead where present).

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- iii) 90 minute ITT applications will be 2 mm thick 'Interdens' intumescent sheet material around the lock case, behind the forend and strike plate.
- Additionally, for 90 minute ITT applications only, the perimeter intumescent within the frame shall by-pass the strike plate by a minimum of 12 mm wide x 6 mm (with the exception of the latchbolt lead where present), positioned towards the opening. In addition a Palusol-based intumescent shall be incorporated in the lock edge of the door leaf and shall by-pass the lock forend by a minimum of 11 mm wide x 6 mm deep, positioned towards the closing face..

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

10. A plastic back box may be incorporated behind the strikeplates for 30, 60 and 90 minute ITT applications only.
11. Lock assemblies not incorporating a latching mechanism shall only be fitted to proven unlatched door assemblies.
12. The locks/latches should not be fitted higher than 1100 mm from the finished floor level of the surrounding floors.
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. 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)*

15. Recessing for locks and strikeplates shall result in a tight fit, allowing for any intumescent protection where required.
16. The spindle hole through the door shall be a maximum of 15 mm diameter unless the doorset has test evidence that proves spindle holes of a greater size than this.
17. ITT30 and 60 doorsets shall be installed in accordance with BS 8214.



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18. 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.
19. The following table shows the acceptable doorset types and fire resistance periods:

Class	Approved Door Type					
	IMM	MM	TT	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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20. 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 metal 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.

#### Scope of Approval

- The locks may not be fitted to timber doorsets without perimeter intumescent fire seals.
- ITT 30 and 60 door leaves shall have solid lignocellulosic construction in the lock area encompassing the entire lock case.
- Strikeplates/keeps - The Unity range of locks/latches are approved with a range of strikeplates/keeps. All of which are steel and the a maximum size permitted for use on all doorsets is as follows:

width	24 mm (40 mm including latchbolt lip)
height	170 mm
thickness	1.5 mm
Latchbolt lip height	66 mm

- Plastic back box may be incorporated behind the strikeplates for 30, 60 and 90 minute ITT applications only

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Approved lock/latch models and EN12209 classifications:

Type	Item No.	Classification	Type	Item No.	Classification	
Sashlock	911.02.143	3 X 8 1 0 G 3 B C 2 0	Bathroom lock	911.02.147	3 X 8 1 0 G 0 B G 2 0	
	911.02.145	3 X 8 1 0 G 3 B C 2 0		911.02.149	3 X 8 1 0 G 0 B G 2 0	
	911.02.151	3 X 8 1 0 G 3 B C 2 0		911.02.155	3 X 8 1 0 G 0 B G 2 0	
	911.02.153	3 X 8 1 0 G 3 B C 2 0		911.02.157	3 X 8 1 0 G 0 B G 2 0	
	911.25.200	3 X 8 1 0 G 3 B C 2 0		911.25.204	3 X 8 1 0 G 0 B G 2 0	
	911.25.420	3 X 8 1 0 G 3 B C 2 0		911.25.430	3 X 8 1 0 G 0 B G 2 0	
	911.25.421	3 X 8 1 0 G 3 B C 2 0		911.25.431	3 X 8 1 0 G 0 B G 2 0	
	911.25.422	3 X 8 1 0 G 3 B C 2 0		911.25.432	3 X 8 1 0 G 0 B G 2 0	
	911.25.444	3 X 8 1 0 G 3 B C 2 0		911.25.448	3 X 8 1 0 G 0 B G 2 0	
	911.25.446	3 X 8 1 0 G 3 B C 2 0		911.25.450	3 X 8 1 0 G 0 B G 2 0	
	911.25.452	3 X 8 1 0 G 3 B C 2 0		911.25.456	3 X 8 1 0 G 0 B G 2 0	
	911.25.454	3 X 8 1 0 G 3 B C 2 0		911.25.458	3 X 8 1 0 G 0 B G 2 0	
	911.02.464	3 X 8 1 0 G 3 B C 2 0		Deadlock	911.22.490	3 X 8 1 0 G 3 B C 0 0
	911.02.468	3 X 8 1 0 G 3 B C 2 0			911.22.550	3 X 8 1 0 G 3 B C 0 0
	911.02.480	3 X 8 1 0 G 3 B C 2 0	Latch	911.23.370	3 X 8 1 0 G 3 B C 0 0	
	911.02.484	3 X 8 1 0 G 3 B C 2 0		911.23.465	3 X 8 1 0 G 3 B C 0 0	
	911.02.165	3 X 8 1 0 G 3 B C 2 0				
		911.02.161	3 X 8 1 0 G 3 B C 2 0			

#### Further Information

Further information regarding the details contained in this certificate may be obtained from Häfele SE & Co KG (Tel: + 49 7452 95 273).

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