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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

## HAEFELE GMBH & CO.KG

Adolf-Haeefe-Str.1, D-72202 Nagold, Germany  
Tel: + 49 7452 95 273

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

Haefele 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 Exova (UK) Limited trading as  
Warrington Certification



Paul Duggan  
Certification Manager



Issued: 2<sup>nd</sup> March 2016  
Revised: 10<sup>th</sup> October 2017  
Valid to: 1<sup>st</sup> March 2021

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## CERTIFICATE No CF 5395

### HAEFELE GMBH & CO.KG

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#### HAEFELE GMBH & CO.KG - MORTICE LOCKS AND LATCHES

1. The locks and latches covered by this certificate are all steel cased. This approval relates to locks and latches detailed later in this report.
2. This certificate is designed specifically to demonstrate compliance of the product or system with Approved Document B (England and Wales); the Technical Handbooks (Scotland); Technical Booklet E (N. Ireland). If compliance is required with other regulatory or guidance documents there may be additional considerations or conflicts to be taken into account.
3. 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.
4. 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 up to 90 minutes (Code ITT).**

**Latched and unlatched, door assemblies consisting of uninsulated or insulated metal door assemblies in metal frames with or without intumescent seals having a fire resistance up to 120 minutes (Code IMM/MM).**

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 or TS31 (where relevant)
  - iii) Certification of quality management system to ISO 9001: 2008.
  - iv) Inspection and surveillance of factory production control
  - v) On-going audit testing in accordance with TS23 requirements
6. This approval is applicable only to the specified locks/latches used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and, when fitted to timber based doorsets, using appropriate intumescent protection:
  - i) The required protection for 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. Failure to install the protection will invalidate this certificate.

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### HAEFELE GMBH & CO.KG

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#### HAEFELE GMBH & CO.KG - MORTICE LOCKS AND LATCHES

- i) The required protection for 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 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. Failure to install the protection will invalidate this certificate.
  - ii) The required protection for 90 minute ITT applications will be 2 mm thick 'Interdens' intumescent sheet material around the lock case and behind the forend and strike plate. Additionally 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. Failure to install the protection will invalidate this certificate.
7. Where the locks or latches are fitted within doorset required to provide a 90 minute integrity performance in ITT doorsets, the door leaf construction shall be a minimum of 64 mm thickness, hung within a hardwood frame with a minimum thickness of 44 mm and a minimum density of 620 kg/m<sup>3</sup>.
  8. Where the locks or latches are fitted within doorset required to provide a 120 minute integrity performance in MM or IMM steel doorsets, the door leaf shall be a minimum of 45 mm thickness. No additional intumescent protection is required.
  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 finished floor level of the surrounding floors.
  11. 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.

## CERTIFICATE No CF 5395 HAEFELE GMBH & CO.KG

### HAEFELE GMBH & CO.KG - MORTICE LOCKS AND LATCHES

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	✗	✗	✗	✗	✗	✗

See CERTIFIRE Technical Schedules for designation of doorset types i.e. ITT etc.

**Key:**

- ✓ - approved
- ✗ - Not approved

## CERTIFICATE No CF 5395 HAEFELE GMBH & CO.KG

### HAEFELE GMBH & CO.KG - MORTICE LOCKS AND LATCHES

Approved lock/latch models and classifications.

Lock/Latch Reference	Description	Classification to EN 12209: 2003										
911.02.143	Euro profile sashlock (55 mm backset)	3	X	8	1	0	G	3	B	C	2	0
911.10.144												
911.02.145												
911.02.146												
911.02.151												
911.02.152												
911.02.153												
911.02.154												
911.02.464	Euro profile sashlock (60 mm backset)	3	X	8	1	0	G	3	B	C	2	0
911.02.467												
911.02.468												
911.02.471	Euro profile sashlock (65 mm backset)	3	X	8	1	0	G	3	B	C	2	0
911.02.480												
911.02.483												
911.02.484												
911.02.487												
911.02.165	Euro profile sashlock (45 mm backset)	3	X	8	1	0	G	3	B	C	2	0
911.02.161	Euro profile sashlock (60 mm backset)											
911.02.162												
911.02.147	Euro profile Bathroom lock (55 mm backset)	3	X	8	1	0	G	-	B	G	2	0
911.02.148												
911.02.149												
911.02.150												
911.02.155												
911.02.156												
911.02.157												
911.02.158												
911.22.490	Euro profile deadlock (55 mm backset)	3	X	8	1	0	G	3	B	C	0	0
911.22.550												
911.22.557												
911.23.370	Latch (55 mm backset)	3	X	8	1	0	G	-	B	0	2	0

#### Further Information

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

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