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## CERTIFICATE OF APPROVAL

### No CF 799

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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 SE & CO KG

Postfach 12 37, D-72192 Nagold, Germany  
Tel: +49 7452 950 Fax: +49 7452 95-200

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

DCL11, DCL15, DCL51, DCL55,  
DCL32, DCL33, DCL34 & DCL83  
Overhead Door Closers

#### TECHNICAL SCHEDULE

TS 34 - The Contribution Of  
Controlled Door Closing  
Devices And Accessories To  
Fire Resisting Doorsets

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

Paul Duggan  
Certification Manager



Issued: 3<sup>rd</sup> September 2010  
Revised: 28<sup>th</sup> September 2022  
Valid to: 18<sup>th</sup> August 2027

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HAEFELE DCL11, DCL15, DCL51, DCL55, DCL32, DCL33, DCL34 & DCL83

1. This approval relates to Haefele surface mounted overhead door closing devices and configurations as follows:

	Link-arms			Slide arms			
	Projecting arm (Fig. 1) Body door mounted on pull face	Projecting arm (Fig. 61) Body transom mounted on push face	Parallel arm (Fig. 6) Body door mounted on push face	Body door mounted on pull face	Body transom mounted on push face	Body door mounted on push face	Body transom mounted on pull face
<b>DCL 11</b>	✓	✗	✓	✗	✗	✗	✗
<b>DCL 15</b>	✓	✗	✓	✗	✗	✗	✗
<b>DCL 51</b>	✓	✗	✓	✗	✗	✗	✗
<b>DCL 55</b>	✓	✗	✓	✗	✗	✗	✗
<b>DCL 83</b>	✗	✗	✗	✓	✗	✗	✗

This approval also relates to Haefele concealed overhead door closing devices and configurations as follows:

	Single-action	Double-action	Body door mounted	Body transom mounted
<b>DCL 32</b>	✓	✗	✓	✗
<b>DCL 33</b>	✓	✗	✓	✗
<b>DCL 34</b>	✓	✗	✓	✗

**Key:** ✓ - approved                      ✗ - Not approved

*Note: Where alternative arms for non-fire applications are included within the packaging, the use of these components on fire resisting door assemblies will invalidate the certification.*

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. The closers are approved on the basis of:
- Initial type testing to EN1154 and BS EN 1634-1
  - An appraisal against TS34
  - Certification of quality management system.
  - Inspection and surveillance of factory production control
  - Ongoing audit testing in accordance with EN 1154 requirements

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

**Surface mounted closers 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).

**DCL 15 & DCL 51 only - Surface mounted closer** - Latched and unlatched, door assemblies consisting of predominantly steel leaves, hung in steel frames, **fully-insulated** for the required classification period as defined by EN1634-1 or BS 476: Part 22, with or without intumescent sealing, and having a fire resistance up to 120 or 240 minutes (Codes MM & IMM)

**DCL 15 & DCL 51 only - Surface mounted closer** - Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in **fully-insulated**, as defined by EN1634-1 or BS 476: Part 22, steel frames having a fire resistance up to 120 minutes (Code ITM).

**Concealed Overhead Closers 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 60 or 90 minutes (Code ITT).

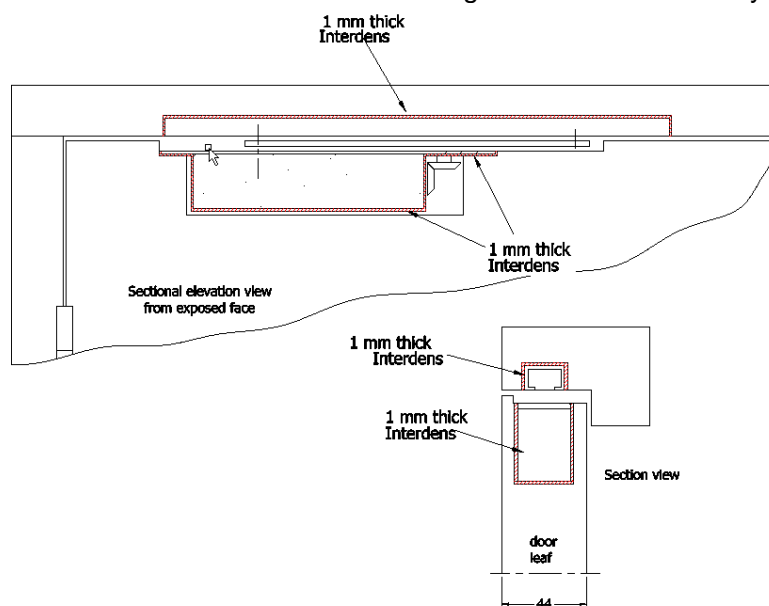
**Concealed Overhead Closers only** - Latched and unlatched, insulated and uninsulated, door assemblies consisting of predominantly steel leaves, hung in steel frames and having fire resistance of up to 60 or 120 minutes (Code MM and IMM).

5. This approval is applicable only to the specified closers when mounted in the applications stated above and under the classification codes section of this certificate and used with door assemblies of proven fire resistance (as defined in BS EN 1634-1 or BS 476: Part 22: 1987) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).
6. The closers on ITT doorsets shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.
7. Where the closers are fitted to door leaves or frames that are manufactured from mineral composite-based materials, or low-density cellulosic-based material, the door assembly shall have previously been shown capable of accommodating the installation of closers at the head of the doorset, without detriment to the door assembly's performance.

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8. Concealed closers shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
9. This approval relates to DCL 32, DCL 33 and DCL 34 concealed overhead closers used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. ITT 30 applications - The bodies mounted in the door leaf, are approved for 30 minute single-action doorsets of the following specification (Code ITT):
- Door leaves shall not less than 44 mm thick doors.
  - The door frame shall consist of softwood/hardwood with a minimum density of 450 kg/m<sup>3</sup> and with a minimum thickness of 31 mm (excluding any stop).
  - The closer shall be fitted with intumescent protection in the form of a minimum of:
    - 1 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly
    - 1 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.

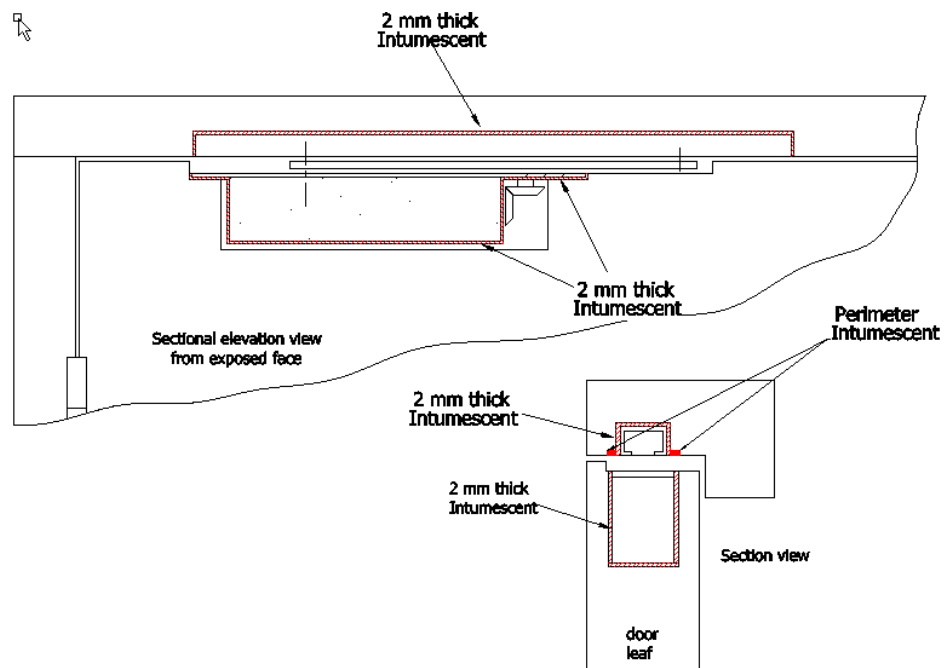


*Note: Failure to install intumescent protection identified above will invalidate this certificate*

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- b. The bodies mounted in the door leaf, are approved for 60 minute single-action doorsets of the following specification (Code ITT):
- Door leaves shall not less than 52 mm thick doors.
  - incorporate non-combustible board sub-facings having a minimum thickness of 3 mm
  - The door frame shall consist of hardwood with a minimum density of 640 kg/m<sup>3</sup> and with a minimum thickness of 36 mm (excluding any stop).
  - The closer shall be fitted with intumescent protection in the form of a minimum of:
    - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly
    - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.



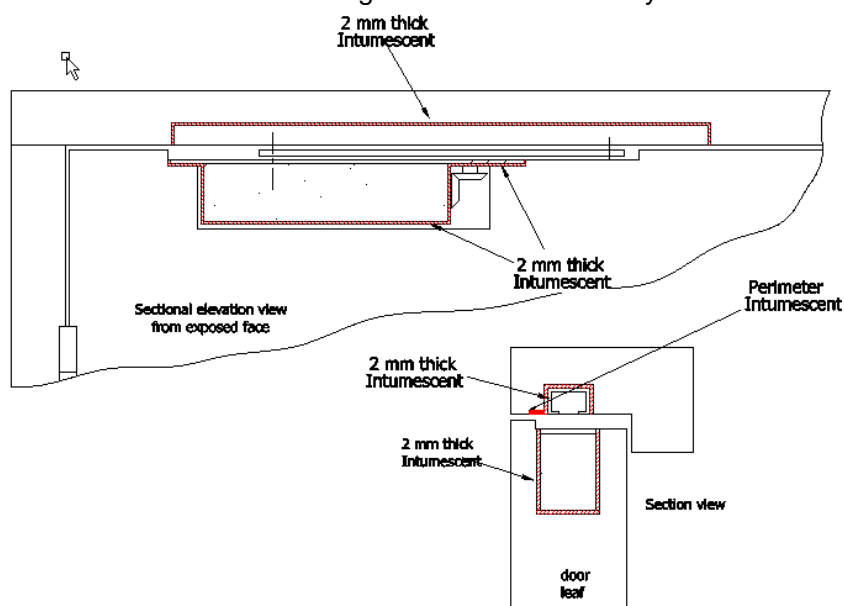
- v. In addition, the perimeter intumescent fire seals within the door or frame shall by-pass the guide rail by a minimum of 5 mm on each side.

*Note: Failure to install intumescent protection identified above will invalidate this certificate*

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- c. The bodies mounted in the door leaf, are approved for 90 minute single-action doorsets of the following specification (Code ITT):
- Door leaves shall not less than 64 mm thick doors.
  - The door frame shall consist of hardwood with a minimum density of 640 kg/m<sup>3</sup> and with a minimum thickness of 44 mm (excluding any stop).
  - The closer shall be fitted with intumescent protection in the form of a minimum of:
    - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body assembly
    - 2 mm thickness of Interdens mono ammonium phosphate sheet material, fully lining the mortices cut into the within the frame head member to accommodate the guide channel assembly.



- In addition, the perimeter intumescent within the head of the frame shall by-pass the slide-arm channel by a minimum of 10 mm wide x 6 mm on the opening face.
- In addition, a 15 x 6 mm Palusol-based intumescent shall be incorporated in the top edge of the door leaf, positioned 47.5 mm from the opening face of the door to the centre of the seal (this seal will be cut through by recess for the main closer body, but shall continue either side).

*Note: Failure to install intumescent protection identified above will invalidate this certificate*



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- d. The bodies mounted in the door leaf, are approved for 120 or 240 minute single-action doorsets of the following specification (Code IMM/MM):
  - i. Door leaves shall have a minimum thickness of 44 mm
  - ii. No additional intumescent protection is required.
  
- 8. The approval relates to on-going production. Product and/or its immediate packaging are 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.

Page 7 of 14 Signed  
K/012

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9. The following table shows acceptable doorset types and fire resistance periods for the DCL 11, DCL55 & DCL 83 surface mounted closers:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
FD20	x	x	✓	x
FD30	x	x	✓	x
FD60	x	x	✓	x
FD90	x	x	✓	x
FD120	x	x	✓	x
FD240	x	x	x	x
E 20	x	x	✓	x
EI 20	x	x	✓	x
E 30	x	x	✓	x
EI 30	x	x	✓	x
E 60	x	x	✓	x
EI 60	x	x	✓	x
E 90	x	x	✓	x
EI 90	x	x	✓	x
E 120	x	x	✓	x
EI 120	x	x	✓	x
E 240	x	x	x	x
EI 240	x	x	x	x

**Key:**

- ✓ - approved  
x - Not approved



## CERTIFICATE No CF 799 HAEFELE SE & CO KG

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10. The following table shows acceptable doorset types and fire resistance periods for the DCL 15 & DCL 51 only surface mounted closers only:

Class	Approved Door Type			
	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
- ✓\* - DCL 15 & DCL 51 - Fully-insulated steel-based doorsets and steel frames only.
- ✓\*\* - DCL 51 only - Fully-insulated steel-based doorsets and steel frames only.

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HAEFELE DCL11, DCL15, DCL51, DCL55, DCL32, DCL33, DCL34 & DCL83

11. The following table shows acceptable doorset types and fire resistance periods for the DCL 32, DCL 33 and DCL 34 concealed closers:

Class	Approved Door Type			
	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
- ✓\* DCL 32, DCL 33 and DCL 34 concealed closer only
- ✓\*\* DCL 34 concealed closer only



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HAEFELE DCL11, DCL15, DCL51, DCL55, DCL32, DCL33, DCL34 & DCL83

12. 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 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

##### **Surface Mounted Closers to ITT & ITM Doorsets:**

- Doors may not include uninsulated glass above 20% of their total area.
- The closers may not be fitted to timber doorsets without intumescent protection.
- Surface mounted overhead closers are only approved for use with steel-based frames that are fully-insulated for the required classification period as defined by EN1634-1 or BS 476: Part 22.
- Hold open option is not approved.

##### **Concealed closers – ITT applications**

- The closer may not be fitted to timber doorsets without perimeter intumescent fire seals within the frame rebate or door edge.
- Concealed overhead closers and their guide channel shall only be fitted in conjunction with the intumescent protection detailed previously in this certificate.
- The closer shall only be fitted to doorsets which have previously been shown capable of accommodating the installation of similar concealed items at the head of the doorset, without detriment to the doorset's performance.
- ITT door leaves shall be of solid lignocellulosic construction in the closer area encompassing the entire closer body.

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### Scope of Approval - Continued

#### Concealed closers – ITT applications – Cont'd:

- 460 mm long x 29 mm wide x 19 mm deep guide rail only approved.
- Hold open option is not approved.
- Doorsets shall not include flush overpanels.

#### IMM & MM doorsets:

- Door leaves should be not less than 45 mm thick.
- Additional intumescent protection is not required.
- Surface mounted overhead closers (DCL 15 & DCL 51 only) are only approved for use on steel-based doorsets that are fully-insulated for the required classification period as defined by EN1634-1 or BS 476: Part 22.
- Hold open option is not approved.

#### EN1154 closer functions:

- The following functions are supported by this certification:

Ref.	Application	Latch Control	Backcheck	Delayed-Action
<b>DCL 11</b>	Projecting (Figure 1)	Yes	No	No
<b>DCL 15</b>	Projecting (Figure 1)	Yes	No	No
<b>DCL 15</b>	Parallel arm (Figure 6)	No	No	No
<b>DCL 51</b>	Projecting (Figure 1)	Yes	Yes	No
<b>DCL 51</b>	Parallel arm (Figure 6)	No	Yes	No
<b>DCL 55</b>	Projecting (Figure 1)	Yes	Yes	No
<b>DCL 55</b>	Parallel arm (Figure 6)	No	Yes	No
<b>DCL 83</b>	Body door mounted on pull face	Yes	No	No
<b>DCL 32</b>	Concealed in door	Yes	No	No
<b>DCL 33</b>	Concealed in door	Yes	No	No
<b>DCL 34</b>	Concealed in door	Yes	No	No

### Classification codes

This approval provides the following classifications for the closers:

DCL 11 in projecting (Figure 1) and parallel arm (Figure 6) configurations:

4	8	3	1	1	3
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### Classification codes continued

DCL 15 in projecting arm (Figure 1) configuration:

4	8	4 2	1	1	3
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DCL 15 in parallel arm (Figure 6) configuration:

4	8	3	1	1	3
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DCL 51 in projecting arm (Figure 1) configuration:

4	8	5 2	1	1	3
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DCL 51 in parallel arm (Figure 6) configuration:

4	8	5 2	1	1	3
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DCL 55 in projecting arm (Figure 1) configuration:

4	8	6 2	1	1	3
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DCL 55 in parallel arm (Figure 6) configuration:

4	8	6 2	1	1	3
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DCL 83 Body door mounted on pull face application:

3	8	4 2	1	1	3
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DCL 32 single-action concealed fixing application:

3	8	3	1	1	3
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**Classification codes continued**

DCL 33 single-action concealed fixing application:

3	8	4 2	1	1	3
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DCL 34 single-action concealed fixing application:

3	8	3	1	1	3
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*Note: power ratings shall be appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154).*

**Further Information**

Further information regarding the details contained in this certificate may be obtained from Haeefe SE & Co KG (Tel: +49 7452 950).

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