



CERTIFICATE OF APPROVAL

No CF 799

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

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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

DCL11, DCL15, DCL51, DCL55,
DCL32, DCL33, DCL34, DCL83
and DCL84 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: 3rd September 2010
Revised: 17th June 2020
Valid to: 31st January 2021

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CERTIFICATE No CF 799 HAEFELE GMBH & CO KG

Haefele DCL11, DCL15, DCL51, DCL55, DCL32, DCL33, DCL34, DCL83 and DCL84

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
DCL 11	✓	✗	✓	✗	✗	✗	✗
DCL 15	✓	✗	✓	✗	✗	✗	✗
DCL 51	✓	✗	✓	✗	✗	✗	✗
DCL 55	✓	✗	✓	✗	✗	✗	✗
DCL 83	✗	✗	✗	✓	✗	✗	✗
DCL 84	✗	✗	✗	✓	✗	✗	✗

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

	Single-action	Double-action	Body door mounted in top edge	Body transom mounted
DCL 32	✓	✗	✓	✗
DCL 33	✓	✗	✓	✗
DCL 34	✓	✗	✓	✗

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.



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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 up to 120 minutes (Code ITT).

Surface mounted closers only - Latched and unlatched, door assemblies consisting of metal faced and edged leaves in metal frames, fully-insulated for the required classification period, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM)

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 fully-insulated steel frames having a fire resistance up to 120 minutes (Code ITM).

Concealed Overhead Closers only - Latched and unlatched, insulated and uninsulated, door assemblies consisting of metal faced and edged leaves in metal frames and having fire resistance of up to 240 minutes (Code MM and IMM).

4. The closers are approved on the basis of:

- i) Initial type testing to EN1154 and BS EN 1634-1
- ii) An appraisal against TS34
- iii) Certification of quality management system to ISO 9001: 2008.
- iv) Inspection and surveillance of factory production control
- v) Ongoing audit testing in accordance with EN 1154 requirements

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 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.

8. The concealed mounted closer models referenced DCL 32, DCL 33 and DCL 34 shall only be fitted in conjunction with the relevant supplied intumescent protection kit detailed later. Failure to supply and install, in the appropriate manner, the intumescent protection kit, will invalidate this certificate of approval.



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9. Where the DCL 32, DCL 33 and DCL 34 concealed closer models are fitted within doorset required to provide a 60 minute integrity performance, the door leaf construction shall be a minimum of 52 mm thickness, incorporating non-combustible board sub-facings having a minimum thickness of 3 mm.
10. Where the DCL 32, DCL 33 and DCL 34 concealed closer models are fitted within doorset required to provide a 90 minute integrity performance, 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/m³.
11. 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.

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12. The following table shows acceptable doorset types and fire resistance periods for the DCL 11, DCL15, DCL 51, DCL55, DCL 83 and DCL 84 surface mounted closers:

Class	Approved Door Type					
	IMM	MM	ITT	ITM	ITC	TM
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
- ✓* - Fully-insulated steel-based doorsets only.



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13. 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	ITC	TM
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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14. Doors are classified as the following types:

Type MM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that do not contain intumescent materials in the frame to leaf gap.

Type IMM - 20 minute to 240 minute doorsets that consist of metallic leaves in metallic frames that contain intumescent materials in the frame to leaf gap.

Type ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in timber frames

Type ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in metal frames.

Type ITC - 20 minute to 120 minute doorsets containing intumescent seals and consisting of non-metallic faced and edged leaves hung in proprietary composite frames, of which the principal material is other than timber or metal but which may include any other materials.

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.
- Hold open option is not approved.

Concealed closers – ITT applications up to 30 minutes (DCL32, DCL33 and DCL34)

- The closers may not be fitted to timber doorsets without intumescent protection.
- 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.
- The door leaf shall have a minimum thickness of 44 mm and shall be mounted within a softwood door frame having a minimum density of 450 kg/m³.
- The closer shall be installed with the intumescent protection kit provided which shall comprise a 1 mm thickness of Mono ammonium phosphate intumescent sheet material which is required to line the mortises provided in the head of the door leaf and the top member of the door frame prior to installation of the closer
- 460 mm long x 29 mm wide x 19 mm deep guide rail only approved.
- Hold open option is not approved.

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Scope of Approval - Continued

Concealed closers – ITT 60 minute applications (DCL32, DCL33 and DCL 34 only)

- The closers may not be fitted to timber doorsets without intumescent protection.
- 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.
- Doorsets shall not include flush overpanels.
- The closers shall not be fitted to timber doorsets without intumescent protection.
- The door leaf shall have a minimum thickness of 52 mm and shall be mounted within a hardwood door frame having a minimum density of 640 kg/m³.
- The door leaf construction shall incorporate non-combustible board sub-facings having a minimum thickness of 3 mm.
- The closer must be installed with the intumescent protection kit provided which shall comprise a 2 mm thickness of Mono ammonium phosphate intumescent sheet material which shall to line the mortises provided in the head of the door leaf and the top member of the door frame prior to installation of the closer
- 460 mm long x 29 mm wide x 19 mm deep guide rail only approved.
- Hold open option is not approved.

Concealed closers – ITT 90 minute applications (DCL 33 and DCL34 only)

- Doorsets shall not include flush overpanels.
- The closers shall not be fitted to timber doorsets without intumescent protection.
- The closer may not be fitted to fire doorsets without intumescent protection.
- 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.
- The door leaf shall have a minimum thickness of 64 mm and shall be mounted within a hardwood door frame having a minimum density of 620 kg/m³.
- 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).
- The closer must be installed with the intumescent protection kit provided which shall comprise a 2 mm thickness of Mono ammonium phosphate intumescent sheet material which is required to line the mortises provided in the head of the door leaf and the top member of the door frame prior to installation of the closer.
- 460 mm long x 29 mm wide x 19 mm deep guide rail only approved.
- Hold open option is not approved.

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Scope of Approval - Continued

DCL51 – IMM & MM doorsets:

- Door leaves should be not less than 45 mm thick.
- Additional intumescent protection is not required.
- Surface mounted overhead closers are only approved for use on steel-based doorsets that are fully-insulated for the required classification period.
- Hold open option is not approved.

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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DCL 15 in projecting arm (Figure 1) configuration:

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

4	8	4 3	1	1	3
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Classification codes continued

DCL 55 in projecting arm (Figure 1) configuration:

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

4	8	5 4	1	1	3
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DCL 32 single-action concealed fixing application:

3	8	3	1	1	3
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DCL 33 single-action concealed fixing application:

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

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

3	8	4 3	1	1	3
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DCL 84 Body door mounted on pull face application:

3	8	3	1	1	3
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Further Information

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

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

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