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**CERTIFICATE OF APPROVAL**  
**No CF 242**

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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

**GEZE GmbH**

**REINHOLD-VÖSTER-STRASSE 21 – 29**  
**71229 LEONBERG**  
**GERMANY**  
**01543 443024 – 07702511350**

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**  
**GEZE 'Boxer' Concealed**  
**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:** 9<sup>th</sup> October 2002  
**Revised:** 9<sup>th</sup> December 2024  
**Valid to:** 30<sup>th</sup> May 2028



## CERTIFICATE No CF 242 GEZE GmbH

1. This certification is provided to the client for its 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. This approval relates to GEZE 'Boxer' concealed overhead mounted door closing devices, with adjustable power. The closers include an external power adjustment and a slide arm channel of maximum length 457mm. The approval applies to the following configurations:

	<b>Boxer 2-4</b>	<b>Boxer 3-6</b>	<b>Boxer EFS</b>	<b>Boxer E</b>
<i>Single-action</i>	✓	✓	✓	✓
<i>Double-action</i>	✓*	✗	✗	✓*
<i>Body door mounted in top edge</i>	✓	✓	✓	✓
<i>Body transom mounted</i>	✓	✓	✓	✗

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

*\*Only the 'Boxer 2-4 and Boxer E 2-4' are approved in double-acting configuration on ITT 30 and 60 doorsets.*

3. This approval relates to their use with the following door assemblies subject to the specific limitations identified in this certificate: -

**Code ITT - 20 minute to 30 minute latched or unlatched door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**

**Code ITT - 60 minute latched or unlatched door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.**

**Code MM - 20 to 240 minute latched or unlatched door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.**

**Code IMM - 20 to 240 minute latched or unlatched door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.**

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4. The closer is approved on the basis of:
- i) Initial type testing to EN1154 and BS EN 1634-1.
  - ii) An appraisal against TS34
  - iii) Inspection of quality management system
  - 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 used with door assemblies of proven fire resistance (BS EN 1634-1:2014+A1:2018 or BS 476-22: 1987) and having power ratings appropriate to the leaf sizes subject to a minimum size 3 (as specified in BS EN 1154) and including the manufacturer's supplied intumescent protection kit as detailed in Section 7 and listed in the 'Scope of Approval'. Failure to install the Geze intumescent protection identified in section 7 will invalidate this certificate.
6. The closer shall only be fitted to ITT, MM or IMM doorsets which have previously been shown capable of accommodating the installation of similar concealed closers at the head of the doorset, without detriment to the doorset's performance.
7. This approval relates to the above closers used with latched or unlatched, single-leaf or double-leaf **ITT** assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. 'Boxer 2-4' and 'Boxer E 2-4' closers with the bodies mounted in the door leaf.  
Approved for FD20, E20, or EI20, FD30, E30 or EI30 single-action and double- action doorsets of the following specification (Code ITT):
    - i. Door leaves shall not less than 44 mm thick doors.
    - ii. The door frame shall consist of softwood or hardwood with a minimum density of 510 kg/m<sup>3</sup> and with a minimum section size 73 mm wide by 34 mm thick (excluding any doorstops).
    - iii. 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 and frame head member to accommodate the closer body and guide channel assembly. The intumescent protection shall be provided only by the manufacturer and referenced within the manufacturer's product data sheet.
    - iv. Geze top centres and bottom straps used in double-action applications shall incorporate 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/bottom edge of the door leaf and frame head member, and across the top of the closer body faceplate.



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- b. 'Boxer 2-4' and 'Boxer E 2-4' closers with the bodies mounted in the door leaf.  
Approved for FD60, E60 or EI60 single-action and double-action doorsets of the following specification (Code ITT):
- i. Door leaves shall not less than 54 mm thick doors.
  - ii. The door frame shall consist of hardwood with a minimum density of 640 kg/m<sup>3</sup> with a minimum section size 94 mm wide by 34 mm thick (excluding any doorstops).
  - iii. 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 and frame head member to accommodate the closer body and guide channel assembly, and across the top of the closer body faceplate. The intumescent protection shall be provided only by the manufacturer and referenced within the manufacturer's product data sheet.
  - iv. Geze top centres and bottom straps used in double-action applications shall incorporate 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/bottom edge of the door leaf and frame head member.
- c. 'Boxer 3-6', 'Boxer EFS' and 'Boxer E 3-6' closers with the bodies mounted in the door leaf.  
Approved for FD60, E60 or EI60 single-action doorsets of the following specification (Code ITT):
- i. Door leaves shall not less than 54 mm thick doors.
  - ii. For EI 60 doors only, the leaf is to include a minimum 4.5 mm thick non-combustible board of nominal density 1500 kg/m<sup>3</sup>, bonded to stiles, rails and core using a resorcinol type adhesive.
  - iii. The door frame shall consist of hardwood with a minimum density of 640 kg/m<sup>3</sup> with a minimum section size 94 mm wide by 44 mm thick (excluding any doorstops).
  - iv. The closer shall be fitted with intumescent protection in the form of a minimum of 1 mm thickness of mono ammonium phosphate sheet material fully lining the mortices cut into the top edge of the door leaf and frame head member to accommodate the closer body and guide channel assembly, and across the top of the closer body faceplate. The intumescent protection shall be provided only by the manufacturer and referenced within the manufacturer's product data sheet.
  - v. In addition, the perimeter intumescent fire seals within the door or frame shall by-pass the closer or guide rail by a minimum of 10mm on each side.

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- d. Transom mounted 'Boxer 2-4', 'Boxer 3-6' and 'Boxer EFS' closers  
Approved for FD30, E30 and EI30 single acting doorsets of the following specification (Code ITT):
- i. Door leaves shall not less than 44 mm thick doors with a hardwood lipping to the top edge minimum 8 mm thick, 640 kg/m<sup>3</sup> minimum density.
  - ii. The door frame shall consist of softwood or hardwood with a minimum density of 510 kg/m<sup>3</sup> and with a minimum section size 80 mm wide by 65 mm thick (excluding any doorstops).
  - iii. Closer body and guide rail to be fitted intumescent protection in the form of a minimum of 2 mm thickness of mono ammonium phosphate sheet material fully lining the mortices cut into the top edge of the door leaf and frame head member to accommodate the closer body and guide channel assembly, and across the top of the closer body faceplate.
  - iv. EFS model wire ways in door frame to be sealed with suitable acrylic intumescent sealant.
- e. Transom mounted 'Boxer 2-4', 'Boxer 3-6' and 'Boxer EFS' closers  
Approved FD60, E60 or EI60 single-acting doorsets of the following specification (Code ITT):
- i. Door leaves shall not less than 54 mm thick doors with a hardwood lipping to the top edge minimum 8 mm thick, 640 kg/m<sup>3</sup> minimum density.
  - ii. For E60 & EI 60 doors only, the leaf is to include a minimum 4.5 mm thick non-combustible board of nominal density 1500 kg/m<sup>3</sup>, bonded to stiles, rails and core using a resorcinol type adhesive.
  - iii. The door frame shall consist of softwood or hardwood with a minimum density of 640 kg/m<sup>3</sup> and with a minimum section size 80 mm wide by 65 mm thick (excluding any doorstops).
  - iv. Closer body and guide rail to be fitted intumescent protection in the form of a minimum of 2 mm thickness of mono ammonium phosphate sheet material fully lining the mortices cut into the top edge of the door leaf and frame head member to accommodate the closer body and guide channel assembly, and across the top of the closer body faceplate.
  - v. In addition, the perimeter intumescent fire seals within the door or frame shall by-pass the closer or guide rail by a minimum of 10mm on each side.
  - vi. EFS model wire ways in door frame to be sealed with suitable acrylic intumescent sealant.

*Note: Failure to install the intumescent protection identified in the configurations above will invalidate this certificate.*





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8. This approval relates to the above closers used with latched or unlatched, single-leaf or double-leaf, uninsulated **MM and IMM** assemblies consisting of predominantly steel leaves in steel frames that may or may not contain intumescent materials in the frame to leaf gap:
- a. 'Boxer 2-4', 'Boxer 3-6', 'Boxer EFS' and 'Boxer E' closers with the bodies mounted in the door leaf.  
Approved for FD30, FD60, FD90, FD120, FD240, E30, E60, E90, E120 & E240 single-action doorsets of the following specification (Code MM/IMM):
    - vii. Door leaves shall not less than 45 mm thick doors.
    - viii. No additional intumescent protection is required.
9. Where the closers are fitted to door leaves or frames that are manufactured from 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.
10. Recessing for closers bodies and guide rails shall result in a tight fit, allowing for any intumescent protection where required.
11. The closers shall be fixed with screws supplied by the closer manufacturer.
12. ITT30 and 60 timber doorsets shall be installed in accordance with BS 8214.
13. All door hardware is subject to the acceptance by the chosen door assembly supplier's tested, assessed or certificated scope, which generally identifies the types of hardware approved, the required specification/design based on the key materials/ maximum size (e.g. body and guide rail size, guiderail material, etc.), and the application of any additional intumescent protection.
- On this basis approval should be sought from the specific door assembly supplier to ensure compliance based on this assessed/certificated scope
14. 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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15. The following table shows acceptable doorset types and fire resistance periods:

Class	Approved Door Type			
	IMM	MM	ITT	ITM
FD20	✓*	✓*	✓	✗
FD30	✓*	✓*	✓	✗
FD60	✓*	✓*	✓	✗
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
- ✓\* - Uninsulated steel-based doors and frames only

*Please Note, not all closers are available in all approved doorsets types listed above. Please refer to sections 7 and 8 above for the specific approval of each closer type, application and doorset type.*

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16. Doors are categorised as the following types:

**Code ITT** - 20 minute to 120 minute doorsets or door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in timber or cellulosic frames.

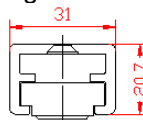
**Code ITM** - 20 minute to 120 minute doorsets or door assemblies door assemblies incorporating intumescent perimeter seals and consisting of timber faced and edged leaves with timber or cellulosic cores, hung in steel frames.

**Code MM** - 20 to 240 minute doorsets or door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames without intumescent seals.

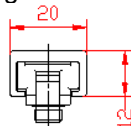
**Code IMM** - 20 to 240 minute doorsets or door assemblies consisting of uninsulated or insulated predominantly steel leaves, hung in steel frames with intumescent seals.

### Scope of Approval:

- 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.
- ITT door leaves shall be of solid lignocellulosic construction in the closer area encompassing the entire closer body.
- Concealed overhead 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.
- Mechanical Hold open option is not approved.
- The following specific guide channels are approved for use with the Boxer closers:
  - Non-hold open single-action guiderail for Boxer with lever arm 31 x 21 mm
  - Non- hold open double-action guide rail for Boxer with lever arm 31 x 21 mm

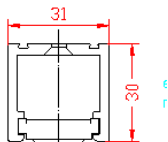


- Non-hold open single-action guiderail for Boxer with lever arm 20 x 12mm
- Non-hold open double-action guiderail for Boxer with lever arm 20 x 12mm



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- 'E' electrical hold-open, single-action and double-action guide rail for Boxer 'E' with lever arm 31 x 30 mm



- Double action doors shall be mounted on the Geze Type B 06371 or Type C 06666 Upper Pivots, Type C 07432 Bottom Strap and '109621 TS137a' floor pivot.
- In ITT double-action applications the Geze top centres and bottom straps shall incorporate 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/bottom edge of the door leaf and the frame head.
- The intumescent kits shall be supplied by Geze as follows:

<b>Kit ref.</b>	<b>Description</b>
<b>Closer body door mounted</b>	
<b>103727</b>	Intumescent fire pack to suit Boxer 2-4 body only (2 part), 1mm thickness
<b>103728</b>	Intumescent fire pack to suit Boxer 3-6 body only (2 part), 1mm thickness
<b>189377</b>	Intumescent fire pack to suit Boxer EFS 4-6 body only (3 part), 1mm thickness
<b>103729</b>	Intumescent fire pack to suit Boxer 12mm guide rail, 1mm thickness
<b>124873</b>	Intumescent fire pack to suit Boxer 20.7mm guide rail, 1mm thickness
<b>129088</b>	Intumescent fire pack to suit Boxer EFS 20.7mm guide rail, 1mm thickness
<b>103730</b>	Intumescent fire pack to suit Boxer E-guide rail, 1mm thickness
<b>128428</b>	Smoke seal for Boxer double action applications (2 part)
<b>200459</b>	<p>Intumescent fire pack to suit GEZE Type B 06371 or Type C 06666 upper pivots, and Type C 07432 bottom strap, 2mm thickness</p> <ul style="list-style-type: none"> <li>• Intumescent for these accessories are also available separately: <ul style="list-style-type: none"> <li>○ 194343 Intumescent fire pack to suit GEZE Type B 06371 or Type C 06666 upper pivots (2 part), 2mm thickness</li> </ul> </li> </ul> <p>194329 Intumescent fire pack to suit GEZE Type C 07432 bottom strap, 2mm thickness</p>

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Kit ref.	Description
<b>Closer body transom mounted</b>	
<b>2No. 103727*</b>	Intumescent fire pack to suit Boxer 2-4 body only (2 part), 2mm thickness
<b>2No. 103728*</b>	Intumescent fire pack to suit Boxer 3-6 body only (2 part), 2mm thickness
<b>2No. 189377*</b>	Intumescent fire pack to suit Boxer EFS 4-6 body only (3 part), 2mm thickness
<b>2No. 103729*</b>	Intumescent fire pack to suit Boxer 12mm guide rail, 2mm thickness
<b>2No. 124873*</b>	Intumescent fire pack to suit Boxer 20.7mm guide rail, 2mm thickness
<b>2No. 129088*</b>	Intumescent fire pack to suit Boxer EFS 20.7mm guide rail, 2mm thickness

\* 2No. 1 mm intumescent kits combined to create 2 mm thickness required.

- The following functions are supported by this certification:

Closer Ref.	Function	Latch Control	Backcheck	Delayed-Action
Boxer 2-4	Single- Action	✓	✓	✗
Boxer 2-4	Double- Action	✓	✓	✗
Boxer 3-6	Single- Action	✓	✓	✗
Boxer EFS	Single- Action	✓	✓	✗
Boxer E	Single- Action	✓	✓	✗
Boxer E	Double- Action	✓	✓	✗

### Classification codes

The above approval provides the following classifications:

'Boxer 2-4' and 'Boxer E 2-4' – Single-acting Applications:

3	8	4 2	1	1	4
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'Boxer 3-6' and 'Boxer E 3-6' – Single-acting Applications:

3	8	6 3	1	1	4
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### Classification codes – Cont'd

'Boxer 2-4' and 'Boxer E 2-4' – Double-acting Applications:

3	8	4 2	1	1	1
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'Boxer EFS' – Single-acting Applications:

3	8	6 4	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 data sheet may be obtained from GEZE GmbH (Tel: 01543 443024).

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