CERTIFICATE OF APPROVAL
No CF 259

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:

CERTIFIED PRODUCT	TECHNICAL SCHEDULE
TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS	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:	13th February 2002
Revised:	11th December 2023
Valid to:	30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

1. 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.

2. This approval relates to Geze TS500/550 series floor spring closers which are floor mounted, or optionally transom mounted with specific doorset types detailed later. The approval relates to the specific door closer units and configurations:

	Floor spring		**Transom closer**	
	single-action	*double-action*	*single-action*	*double-action*
TS500N EN3	✓	✓	✗	✗
TS500 NV	✓	✓	✗	✓
TS550 NV F P	✗	✓	✗	✗
TS550 NV F	✓	✗	✗	✗

Key: ✓ - approved ✗ - Not approved

3. This approval relates to their use with the following door assemblies where the closer assembly is floor mounted: -

   Single-action and double-action, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber or cellulosic cores in timber frames having a fire resistance up to 60 minutes where the closer assembly is floor mounted (Code - ITT).

   Single-action and double-action, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber or cellulosic cores in steel frames having a fire resistance up to 60 minutes where the closer assembly is floor mounted (Code - ITM).

   Double-action, 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 where the closer assembly is floor mounted (Code IMM/MM).

4. This approval relates to their use with the following door assemblies where the closer assembly is transom mounted: -

   Double action only, latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber or cellulosic cores in timber frames having a fire resistance of up to 60 minutes where the closer assembly is transom mounted (Code - ITT).

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

5. The floor springs are 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

6. This approval is applicable only to the specified floor springs and transom closers, when mounted in the applications stated later under the classification codes section of this certificate and used with door assemblies of proven configuration (single-action or double-action, floor mounted or transom mounted) and fire resistance (as defined in 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).

7. 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. floor springs or transom mounted, size of top and bottom straps, 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

8. 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.

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

9. The following table shows the acceptable doorset types and fire resistance periods for use of single-action floor mounted variants:

	Approved Door Type			
Class	**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

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

10. The following table shows the acceptable doorset types and fire resistance periods for use of double-action floor mounted variants:

	Approved Door Type			
Class	**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

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

11. The following table shows the acceptable doorset types and fire resistance periods for use of double-action transom mounted variants:

	Approved Door Type			
Class	**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

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

12. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute 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 ITM - 20 minute to 120 minute 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 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.

13. This approval relates to the above **floor mounted** units used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber or cellulosic cores and in timber or steel frames:

a. 30 minute (FD30 only) single-action doorsets of the following specification (Code ITT and ITM):
   i. Door leaves shall not be less than 44 mm thick doors.
   ii. ITT door frame shall consist of softwood or hardwood with a minimum density of 460 kg/m³.
   iii. ITM frames shall be of steel.
   iv. The bottom strap and top strap are to be bedded into intumescent mastic of a minimum 1 mm thickness or shall be fitted with intumescent protection in the form of 2 mm mono ammonium phosphate sheet material, as supplied by the manufacturer, fully lining the mortices cut into the top edge and bottom edge of the door leaf, and frame head for ITT applications.
   v. In addition, where the perimeter intumescent fire seal is included within the top edge of the door leaf (as opposed to within the frame), two additional 10 mm wide by 2 mm thick Therm-A-Seal intumescent seals are to be installed adjacent to the strap position.
   vi. Doorsets shall not include flush overpanels unless the application can be substantiated by the door manufacturer's own test evidence.

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS & TRANSOM CLOSERS

b. 60 minute (FD60 only) single-action doorsets of the following specification (Code ITT and ITM):
   i. Door leaves shall not be less than 54 mm thick doors.
   ii. ITT door frame shall consist of hardwood with a minimum density of 640 kg/m³.
   iii. ITM frames shall be of steel.
   iv. The bottom strap and top strap shall be fitted with intumescent protection in the form of 2 mm mono ammonium phosphate sheet material, as supplied by the manufacturer, fully lining the mortices cut into the top edge and bottom edge of the door leaf, and frame head for ITT applications.
   v. In addition, where the perimeter intumescent fire seal is included within the top edge of the door leaf (as opposed to within the frame), two additional 10 mm wide by 2 mm thick Therm-A-Seal intumescent seals are to be installed adjacent to the strap position.
   vi. Doorsets shall not include flush overpanels unless the application can be substantiated by the door manufacturer's own test evidence.

c. 30 minute (FD30, E30 & EI30) double-action doorsets of the following specification (Code ITT and ITM):
   i. Door leaves shall not be less than 44 mm thick doors.
   ii. ITT door frame shall consist of softwood or hardwood with a minimum density of 460 kg/m³.
   iii. ITM frames shall be of steel.
   iv. The bottom strap and top strap shall be fitted with intumescent protection in the form of 2 mm mono ammonium phosphate sheet material, as supplied by the manufacturer, fully lining the mortices cut into the top edge and bottom edge of the door leaf, and frame head for ITT applications.
   v. In addition, where the perimeter intumescent fire seal is included within the top edge of the door leaf (as opposed to within the frame), two additional 10 mm wide by 2 mm thick Therm-A-Seal intumescent seals are to be installed adjacent to door mounted top centre position.
   vi. Doorsets shall not include flush overpanels unless the application can be substantiated by the door manufacturer's own test evidence.

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

d. 60 minute (FD60, E60 & EI60) double-action doorsets of the following specification (Code ITT and ITM):
   i. Door leaves shall not be less than 54 mm thick doors.
   ii. For EI60 applications, in addition to the above requirement, the leaf is to include 4.5 mm thick, non-combustible, mineral based sub-facings of nominal density 1500 kg/m^3, bonded to the stiles, rails and core using a resorcinol type adhesive.
   iii. ITT door frame shall consist of hardwood with a minimum density of 640 kg/m^3.
   iv. ITM frames shall be of steel.
   v. The bottom strap and top strap shall be fitted with intumescent protection in the form of 2 mm mono ammonium phosphate sheet material, as supplied by the manufacturer, fully lining the mortices cut into the top edge and bottom edge of the door leaf, and frame head for ITT applications.
   vi. In addition, where the perimeter intumescent fire seal is included within the top edge of the door leaf (as opposed to within the frame), two additional 10 mm wide by 2 mm thick Therm-A-Seal intumescent seals are to be installed adjacent to door mounted top centre position.
   vii. Doorsets shall not include flush overpanels unless the application can be substantiated by the door manufacturer's own test evidence.

14. This approval relates to the above **transom mounted** units used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber or cellulosic cores and in timber frames:

a. 30 minute (FD30, E30 & EI30) double-action doorsets of the following specification (Code ITT):
   i. Door leaves shall not be less than 44 mm thick doors and be previously proven capable of accommodating a concealed closer or similar item within its head.
   ii. ITT door frame shall consist of softwood or hardwood with a minimum density of 460 kg/m^3 and a minimum section of 130 wide x 75 mm thick.
   iii. The following intumescent protection kit, as supplied by the closer manufacturer, shall be fitted in conjunction with the closer:

Intumescent Kit
1 mm Interdens mono ammonium phosphate sheet material: • Lining the mortice within the frame head • Under the closer body cover plate • Lining the mortice within the door leaf head for the top strap

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

b. 60 minute (FD60, E60 & EI60) double-action doorsets of the following specification (Code ITT):
   i. Door leaves shall not be less than 54 mm thick doors and be previously proven capable of accommodating a concealed closer or similar item within its head.
   ii. ITT door frame shall consist of hardwood with a minimum density of 640 kg/m³ and a minimum section of 130 wide x 75 mm thick.
   iii. Two different protection options are available and are subject to the following requirements:

Option 1	**Option 2**
Requirement	***Requirement***
Where the standard intumescent perimeter fire seals for the doorset comprise 2 No. 15 mm by 4 mm seals fitted into the head of the door leaf and these are to remain continuous across the head of the door leaf	Where the standard intumescent perimeter seals do not comply with the description given for option 1 and the standard seal(s) are interrupted by the installation of the closer accessories.
Intumescent Kit	***Intumescent Kit***
1 mm mono ammonium phosphate sheet material: • Lining the mortice within the frame head • Under the closer body cover plate • Lining the mortice within the door leaf head for the top strap	2 mm Interdens intumescent sheet (2 x 1mm kits): • Lining the mortice within the frame head • Under the closer body cover plate • Lining the mortice within the door leaf head for the top strap

Scope of Approval:

- The following specific accessories are approved:
  - 'DB' straps and top centres (Floor springs, Single-action)
  - Type B 06371 or Type C 06666 Upper Pivots and Type C 07432 Bottom Straps (Floor springs double-action).
  - '63953' side-load top strap with decorative plate to door face (Transom closers, Double-action)
  - '7432' bottom strap (Transom closers, Double-action)
  - '109621' TS137a' floor pivot (Transom closers, Double-action)

- The following functions are supported by this certification:

Closer Ref.	**Latch Control**	**Backcheck**	**Delayed-Action**
TS500N EN3	Yes	Yes	No
TS500 NV	Yes	Yes	No
TS550 NV F P	Yes	Yes	Yes
TS550 NV F	Yes	Yes	Yes

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436

CERTIFICATE No CF 259
GEZE GmbH

TS500/550 SERIES FLOOR SPRINGS & TRANSOM CLOSERS

Classification codes

This approval provides the following classifications for the closers:

TS500N EN3:

3	**8**	**3**	**1**	**1**	**4**

TS500 NV:

3	**8**	**4 1**	**1**	**1**	**4**

TS550 NV F:

4	**8**	**6 3**	**1**	**1**	**4**

TS550 NV F P:

3	**8**	**6 3**	**1**	**1**	**4**

TS500 NV (transom mounted):

3	**8**	**4 3**	**1**	**1**	**4**

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).

Issued: 13th February 2002
Revised: 11th December 2023
Valid to 30th May 2028

This certificate is the property of Warringtonfire Testing and Certification Limited
Registered in England and Wales
Registered Office: 3rd Floor, Davidson Building, 5 Southampton Street, London, WC2E 7HA. Company Registration No: 11371436