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## CERTIFICATE OF APPROVAL

### No CF 252

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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 UK LIMITED

**Blenheim Way, Fradley Park, Lichfield, WS13 8SY**  
**Tel: 01543 443000 Fax: 01543 443021**

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

**TS2000 and TS4000 Series  
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**



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### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

1. This approval relates to Geze overhead mounted 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
TS2000 V	✓	✓	✓	✗	✗	✗	✗
TS2000 V BC	✓	✓	✓	✗	✗	✗	✗
TS2000 NV	✓	✓	✓	✗	✗	✗	✗
TS2000 NV BC	✓	✓	✓	✗	✗	✗	✗
TS4000	✓	✓	✓	✗	✗	✗	✗
TS4000 S	✓	✓	✓	✗	✗	✗	✗
TS4000 T	✓	✓	✓	✗	✗	✗	✗
TS4000 E	✓	✓	✓*	✗	✗	✗	✗
TS4000 IS	✓	✓	✗	✗	✗	✗	✗
TS4000 E-IS	✓	✓	✗	✗	✗	✗	✗
TS 4000 EFS	✓	✓	✓*	✗	✗	✗	✗
TS4000 G	✗	✗	✗	✓	✓	✗	✗
TS4000 G IS	✗	✗	✗	✓	✓	✗	✗
TS4000 EN 5-7	✓	✓	✓	✗	✗	✗	✗

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

✓\* The TS 4000 E and TS 4000 EFS can only be used in a parallel arm (figure 6) application in conjunction with a Geze 167590 mounting plate.

*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.

Signed  
C/007

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#### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

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).**

**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)**

**Latched and unlatched, door assemblies consisting of metal faced and edged leaves in metal frames, uninsulated for the required classification period, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM) with closers fitted to the fire risk face 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)**

***\*The closer must not be used in this application where a specific direction of fire exposure for the doorset cannot be identified***

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. The closers shall be fixed with screws supplied by the closer manufacturer. Bolt-through fixings shall not be used.

6. 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.

7. 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).

Signed  
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**GEZE UK LIMITED**

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**TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS**

8. The approval relates to on-going production. The 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.

Signed  
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### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

9. The following tables show acceptable doorset types and fire resistance periods:

Class	Approved Door Type				
	MM	IMM	ITT	ITM	ITC
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
- ✓\* - **Fully-insulated** steel-based doors and frames only
- ✓# - Fitted to the **fire risk face only** of Uninsulated steel-based doors and frames only
- ✓\*# - Fitted to **Fully-insulated** steel-based doors and frames, or the **fire risk face only** of Uninsulated steel-based doors and frames

Signed  
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*Paul Duggan* Page 5 of 9

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#### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

10. Doors are classified as the following types:

**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.

#### Limitations of Approval:

- Doors may not include uninsulated glass above 20% of their total area.
- The closers may not be fitted to doorsets incorporating timber leaves without leaf/frame edge intumescent protection to the frame rebate or door edge.
- Closers are approved for use on both sides of steel-based doors and frames that are fully-insulated for the required classification period.
- For uninsulated steel-based doors and frames the closers shall be fitted to the fire risk face only. **The closer must not be used in this application where a specific direction of fire exposure for the doorset cannot be identified**
- Mechanical Hold open option is not approved.
- Approved for use with slide arm only.

#### Classification codes

This approval provides the following classifications for the closers as detailed:

For model TS2000 V and TS2000 V BC in projecting arm (Figure 1), parallel arm (Figure 6) and transom mount (Figure 61) applications:

4	8	5 3	1	1	4
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Signed  
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#### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

#### Classification codes - Continued

For models TS2000 NV, TS2000 NV BC in projecting arm (Figure 1), parallel arm (Figure 6) and transom mount (Figure 61) applications:

4	8	4 3	1	1	4
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For models TS4000, TS4000 S and TS4000 T in projecting arm (Figure 1), parallel arm (Figure 6) and transom mount (Figure 61) applications:

4	8	6 3	1	1	4
---	---	--------	---	---	---

For models TS4000 IS in projecting arm (Figure 1) and transom mount (Figure 61) only to EN1154:

4	8	6 3	1	1	4
---	---	--------	---	---	---

For models TS4000 IS in projecting arm (Figure 1) and transom mount (Figure 61) only to EN1155:

3	8	6 3	1	1	4
---	---	--------	---	---	---

For models TS4000 E, TS4000 EFS and TS4000 E- in projecting arm (Figure 1), transom mount (Figure 61) and parallel arm (Figure 6) to EN1154:

4	8	6 3	1	1	4
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#### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

#### Classification codes - Continued

For models TS4000 E, TS4000 EFS and TS4000 E- in projecting arm (Figure 1), transom mount (Figure 61) and parallel arm (Figure 6) to EN1155:

3	8	6 3	1	1	4
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For model TS4000EN 5-7 in projecting arm (Figure 1), parallel arm (Figure 6) and transom mount (Figure 61) applications:

4	8	7 5	1	1	4
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For models TS4000 G with slide-arm, body door mounted on pull face & body frame/transom mounting on push face:

4	8	3	1	1	4
---	---	---	---	---	---

For models TS4000 G IS with slide-arm, body door mounted on pull face & body frame/transom mounting on push face:

3	8	3	1	1	4
---	---	---	---	---	---

#### Accessories

- Slide-arm variants of the closers may be fitted in conjunction with the following accessories:
  - ISM guide rail
  - E-ISM guide rail
  - R-ISM guide rail

These guide rails have an integral door selector function and have been initially type tested in accordance with EN 1158: 1997.

Signed  
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#### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

Classification of the ISM, E-ISM and R-ISM guide rails is given as follows:

3	8	6 3	1	1	4
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*Note: Where one of the above guide rails is used in conjunction with a closer model having a differing classification code, the lower code shall apply.*


- The TS 4000 E and TS 4000 EFS can only be used in a parallel arm (figure 6) application in conjunction with a Geze 167590 mounting plate.

#### Further Information

Further information regarding the details contained in this data sheet may be obtained from GEZE UK (Tel: 01543 443000).

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

Signed  
C/007

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