



# CERTIFICATE OF APPROVAL No CF 252

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:

**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 Exova (UK) Limited trading as Warrington Certification

Sir Ken Knight Chairman Impartiality Committee



Paul Duggan Certification Manager

Issued: 1<sup>st</sup> May 1997 Reissued: 1<sup>st</sup> June 2017 Valid to: 31<sup>st</sup> May 2022

Page 1 of 8



This certificate is the property of Exova (UK) Limited trading as Warrington Certification Reg. Office: Exova (UK) Limited, Lochend Industrial Estate, Newbridge, Midlothian EH28 8PL United Kingdom. Co. Reg. No. SC070429





## 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 designed to demonstrate compliance of the product or system specifically with Approved Document B (England and Wales), the Technical Handbooks (Scotland) and Technical Booklet E (N. Ireland). If compliance is required to other regulatory or guidance documents there may be additional considerations or conflict to be taken into account.

Page 2 of 8 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 (CERTIFIRE Code - ITT).

Latched and unlatched, door assemblies consisting of metal faced and edged leaves in metal frames, with or without intumescent sealing, and having a fire resistance up to 240 minutes (Codes MM & IMM).

Latched and unlatched, intumescent sealed door assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores in steel frames having a fire resistance up to 120 minutes (Code ITM).

- 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 (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).

Page 3 of 8 Signed C/007

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## TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

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

	Approved Door Type				
Class	ММ	IMM	ITT	ITM	ITC
FD20	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FD30	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FD60	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FD120	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
FD240	$\checkmark$	$\checkmark$	×	×	×
E 20	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EI 20	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
E 30	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EI 30	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
E 60	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EI 60	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
E 90	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EI 90	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
E 120	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
EI 120	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
E 240	$\checkmark$	$\checkmark$	×	×	×
EI 240	$\checkmark$	$\checkmark$	×	×	×

Key:

- approved

Not approved

Page 4 of 8 Signed C/007

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### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

7. 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.
- All closer models are only approved in the fitting applications detailed with their classification codes.
- Hold open option is not approved.

#### **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:



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



Page 5 of 8 Signed C/007

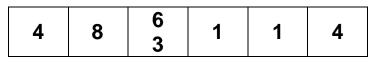
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### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

### **Classification codes - Continued**

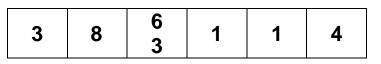
For models TS4000, TS4000 S and TS4000 T in projecting arm (Figure 1), parallel arm (Figure 6) and transom mount (Figure 61) applications:



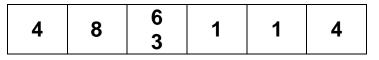
For models TS4000 IS in projecting arm (Figure 1) and transom mount (Figure 61) only to EN1154:



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



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:



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:

Page 6 of 8 Signed C/007

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## TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

**Classification codes - Continued** 



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
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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
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### **Accessories**

- Slide-arm variants of the closers may be fitted in conjunction with the following accessories:
  - o 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.

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.

Page 7 of 8 Signed C/007

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### TS2000 and TS4000 Series OVERHEAD DOOR CLOSERS

## 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).

Page 8 of 8 Signed C/007

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