



CERTIFICATE OF APPROVAL

No CF 140

This is to certify that, in accordance with
TS00 General Requirements for Certification of Fire Protection Products
The undermentioned products of

DORMA UK LIMITED

Wilbury Way, Hitchin, Hertfordshire SG4 0AB
Tel: 01462 477600 Fax: 01462 477601

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

DORMA ITS 96 Concealed
Overhead Mounted Door Closers

TECHNICAL SCHEDULE

TS34 – 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: 16th October 1995
Reissued: 24th October 2020
Valid to: 23rd October 2025



CERTIFICATE No CF 140 DORMA UK LIMITED

DORMA ITS 96 CONCEALED OVERHEAD MOUNTED DOOR CLOSERS

1. Dorma ITS 96 (2-4), ITS 96 (3-6) and ITS 96 FL (3-6) are single-action concealed overhead mounted door closing devices, with adjustable power. The closer includes an external power adjustment and a slide arm channel of maximum length 527 mm. The approval applies to the following configurations:

	ITS 96 (2-4)	ITS 96 (3-6)	ITS 96FL (3-6)
Single-action	✓	✓	✓
Double-action	✗	✗	✗
Body door mounted in top edge	✓	✓	✓
Body transom mounted	✗	✗	✗

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 approval relates to their use with the following door assemblies:-

Single-acting, latched or 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 of 20, 30 or 60 minutes (Code ITT)*.

Single-acting, 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 (Code IMM/MM).**

* The ITS 96 (3-6) and ITS 96 FL (3-6) closers are only approved for use with ITT 20 and ITT 30 door assemblies with a minimum door leaf thickness of 54 mm.

** The ITS 96 FL is not approved for use with MM/IMM doorsets.

3. 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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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 476: Part 22 and EN 1634-1) 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. Failure to install the intumescent protection identified in section 8 will invalidate this certificate.
6. 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.
7. The closers shall be fixed with screws supplied by the closer manufacturer.
8. This approval relates to the above closers used with latched or unlatched single-leaf or double-leaf, assemblies consisting of timber faced and edged leaves with timber, cellulosic or mineral cores and in timber frames:
- a. ITS 96 (2-4), ITS 96 (3-6) and ITS 96FL (3-6) closers and G 96 N20 and G 96 N slide channels, are approved for **20 or 30 minutes**, single-action doorsets of the following specification (Code ITT):
 - i. Door leaves shall not be less than 44 mm thick doors for size 2-4 units, and 54 mm thick doors for size 3-6 and ITS 96 FL units.
 - ii. The door frame shall consist of softwood or hardwood with a minimum density of 510 kg/m³ and with a minimum section size of 32 mm thick (excluding the stop).
 - iii. The closer shall be fitted with intumescent protection in the form of Mono ammonium phosphate sheet material as follows:
 - 1 mm thickness fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body and behind the closer faceplate.
 - 1 mm thickness fully lining the mortice cut into the frame head member to accommodate the slide channel assembly.

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- b. ITS 96 (2-4) and ITS 96 (3-6) closers and G 96 EMF slide channels, are approved for **20 or 30 minutes** single-action doorsets of the following specification (Code ITT):
- i. Door leaves shall not be less than 44 mm thick doors for size 2-4 units, and 54 mm thick doors for size 3-6.
 - ii. The door frame shall consist of softwood or hardwood with a minimum density of 510 kg/m³ and with a minimum section size of 32 mm thick (excluding the stop)
 - iii. The closer shall be fitted with intumescent protection in the form of Mono ammonium phosphate sheet material as follows:
 - 1 mm thickness fully lining the mortice cut into the top edge of the door leaf to accommodate the closer body and behind the closer faceplate.
 - 2 mm thickness fully lining the mortice cut into the frame head member to accommodate the slide channel assembly.
- c. ITS 96 (2-4), ITS 96 (3-6) and ITS 96FL (3-6) closers and G 96 N20 and G 96 N slide channels, are approved for **60 minutes** single-action doorsets of the following specification (Code ITT):
- i. Door leaves shall not be less than 54 mm thick doors.
 - ii. The door frame shall consist of hardwood with a minimum density of 640 kg/m³ and with a minimum section size of 32 mm thick (excluding the stop).
 - iii. The closer shall be fitted with intumescent protection in the form of Mono ammonium phosphate sheet material as follows:
 - 1 mm thickness fully lining the mortices cut into the top edge of the door leaf to accommodate the closer body and behind the closer faceplate.
 - 2 mm thickness fully lining the mortice cut into the frame head member to accommodate the slide channel assembly.
 - iv. In addition the perimeter intumescent fire seals within the door or frame shall by-pass the slide channel by a minimum of 10mm on the opening side of the rebate.

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- d. ITS 96 (2-4) and ITS 96 (3-6) closers, and G 96 EMF slide channels, are approved for **60 minutes** single-action doorsets of the following specification (Code ITT):
- i. Door leaves shall be not less than 54 mm thick doors
 - ii. The door frame shall consist of hardwood with a minimum density of 640 kg/m³ and with a minimum section size of 32 mm thick (excluding the stop)
 - iii. The closer shall be fitted with intumescent protection in the form of Mono ammonium phosphate sheet material as follows:
 - 1 mm thickness fully lining the mortice cut into the top edge of the door leaf to accommodate the closer body and behind the closer faceplate.
 - 2 mm thickness fully lining the mortice cut into the frame head member to accommodate the slide channel assembly.
 - iv. 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.
9. This approval relates to the above closers used with latched or unlatched single-leaf or double-leaf, assemblies consisting of steel faced and edged leaves with mineral fibre or paper honeycomb cores in steel frames:
- e. ITS 96 (2-4) and ITS 96 (3-6) closers, and G 96 N20 and G 96 N slide channels, are approved for single-action doorsets up to **240 minutes** of the following specification (Code MM/IMM):
- i. Door leaves shall not less than 45 mm thick doors.
 - ii. No additional intumescent protection required
10. 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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11. The following table shows acceptable doorset types and fire resistance periods:

Class	Approved Door Type				
	IMM	MM	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

✓* - The ITS 96 FL is not approved for use with MM/IMM doorsets.

✓** - The ITS 96 (3-6) and ITS 96 FL (3-6) closers are only approved for use with ITT20 and ITT30 door assemblies with a minimum door leaf thickness of 54 mm.



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12. Doors are classified as the following types:

Code ITT - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in timber-based frames.

Code ITM - 20 minute to 120 minute doorsets containing intumescent seals and consisting of timber faced and edged leaves with timber, cellulosic or mineral cores, hung in metal frames.

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

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.

Scope of Approval

- The following specific slide channels and applications are approved for use with the ITS 96 concealed closers:

Product reference	Application		
	ITT20/30	ITT60	MM/IMM240
G 96 N20 (440 mm long x 20 mm wide x 12 mm deep)	Yes	Yes	Yes
G 96 N (440 mm long x 31 mm wide x 20 mm deep)	Yes	Yes	Yes
G 96 EMF (527 mm long x 31 mm wide x 30 mm deep)	Yes	Yes	No

- The closer may not be fitted to timber/mineral-based doorsets without intumescent protection.
- Hold open option is not approved.
- The ITS 96 (3-6) and ITS 96 FL (3-6) closers are only approved for use with ITT 20 or ITT 30 door assemblies with a minimum door leaf thickness of 54 mm.
- The ITS 96 FL free-swing closer is not approved for use with MM/IMM doorsets.





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Scope of Approval – Cont'd

- The following functions are supported by this certification:

Closer Ref.	Backcheck	Delayed-Action	Latch Control
ITS 96 (2-4)	No	No	Yes
ITS 96 (3-6)	No	No	Yes
ITS 96 FL (3-6)	No	No	Yes

Classification code

The above approval provides the following classifications:

ITS 96 (2-4):

3	8	4 2	1	1	4
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ITS 96 (3-6):

3	8	6 3	1	1	4
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ITS 96 FL (3-6):

3	8	6 3	1	1	4
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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 Dorma UK Limited (Tel: 01462 477600).

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