

## **DORMA ITS96 EN 2-4 CAM ACTION DOOR CLOSER**

This folder contains all technical documentation detailing the compliance of the DORMA ITS96 Cam Action EN2-4 Slide Arm Door Closer complies with the technical and product requirements contained within United Kingdom Building Regulations and Construction Product Regulations 1991.

### Contents

**1. Declaration of Performance**

The ITS96 is CE marked to BS EN1154

**2. EN1154 Certificate of Constancy of Performance**

The ITS96 has been successfully independently third party tested to BS EN1154

**3. Certifire Certificate CF140**

The ITS96 is Certifire Approved as per enclosed Certificate and is suitable for the following applications:-

- a) Timber doors of up to 30 minutes fire resistance when installed on doors with a minimum thickness of 44mm with 30 minute intumescent pack
- b) Timber doors of up to 60 minutes fire resistance when installed on doors with a minimum thickness of 54mm with 60 minute intumescent pack
- c) Insulated or un-insulated steel doors of up to 4 hours fire resistance

**4. Torque Curve to demonstrate compliance with requirements of ADM and BS8300**

The ITS96 when fitted to size EN3 (Minimum size for a fire door) will exert an opening force of 30N or less between 0 and 30 degrees and 22.5N or less between 30 and 60 degrees of opening when applied to doors 733mm wide or above.

### **Technical Specification**

DORMA ITS96 EN2-4 Cam Action Door Closer with linear drive and rapidly decreasing opening resistance/torque, adjustable closing speed in two independent ranges, closing force infinitely variable between EN2-4, Non Handed, CE Marked to BS EN1154 and Certifire Certificated CF140.

**Once the ITS96 Door Closer has been fitted and adjusted accordingly this document can be passed to Building Control to demonstrate compliance with UK Building Regulations and to the 'responsible person' of the Building owner/occupier for use in respect of RR(FS)O requirements.**

# LEISTUNGSERKLÄRUNG

# DECLARATION OF PERFORMANCE

DOP\_0003

**EN EU Nr. 305/2011 Declaration of Performance**

- Unique identification code of the product-type: Controlled door closing devices **DORMA TS 97 EN 2-4**
- Intended use/es: On fire and smoke compartmentation doors to fulfil the self closing requirements of such doors.
- Manufacturer: dormakaba Deutschland GmbH - DORMA Platz 1 - 58256 Ennepetal
- System/s of assessment and verification of constancy of performance (AVCP): System 1
- Harmonised standard: EN 1154: 1996/A1: 2002/AC: 2006
- Notified body/ies: MPA NRW 0432
- Declared performance/s:

| Essential characteristic   | Performance  | Harmonised technical specification |
|----------------------------|--|------------------------------------|
| Self-closing               | <ul style="list-style-type: none"> <li>▪ Closing doors from <math>\geq 105^\circ</math> open grade 3</li> <li>▪ Door closer power size EN 2-4</li> <li>▪ Suitability for fire/smoke door use grade 1</li> <li>▪ Safety grade 1</li> <li>▪ Temperature dependence <math>+40^\circ\text{C}</math> and <math>-15^\circ\text{C}</math>: <math>\geq 3\text{s}</math> <math>\leq 25\text{s}</math></li> <li>▪ Latch control</li> <li>▪ Adjustable closing force</li> </ul> | EN 1154: 1996/A1: 2002/AC: 2006    |
| Durability of self-closing | <ul style="list-style-type: none"> <li>▪ Durability 500000 cycles grade 8</li> <li>▪ Very high corrosion resistance grade 4</li> </ul>   |                                    |
| Dangerous substances       | <ul style="list-style-type: none"> <li>▪ Substances of very high concern &lt; threshold values</li> </ul>  |                                    |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Ennepetal 03.11.2016



Michael Hensel

Senior Vice President  
Access Solutions DACH

**Materialprüfungsamt Nordrhein-Westfalen**

Prüfen · Überwachen · Zertifizieren

**Certificate of constancy of performance****0432-CPR-00026-31**

Version 01

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product

**overhead door closer ITS 96 and TS 97**

Controlled door closing devices for single and double leaf swing doors  
according to the composition and classification in annex 1

placed on the market under the name or trade mark of

**dormakaba Deutschland GmbH**

DORMA Platz 1  
58256 Ennepetal  
Germany

and produced in the manufacturing plant(s)

**DO 2.1**

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard(s)

**EN 1154:1996/A1:2002/AC:2006**

under **system 1** for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

**constancy of performance of the construction product.**

This certificate was first issued on 02.09.2019 and will remain valid until 02.09.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Dortmund, 2nd September 2019



By order

T. Friedrich  
Head of Certification Body

This Certificate consists of 1 page and 1 annex(es).

The original of this document was issued in German language.  
In case of doubt only the German version is valid.



# Materialprüfungsamt Nordrhein-Westfalen

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## List of Products

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**Type :** „ITS 96 EN 3-6“  
**Description :** In door-leaf (upper secondary closing edge) embedded door closer with hydraulic damping.  
**Arm system :** Slide channel arm assembly  
**Installation :** Fixing in the door-leaf according to manufacturer specifications  
**Size :** 3 - 6  
**Classification :** 3 8 3 - 6 1 1 4  
**Manufacturing plant :** DO 2.1

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**Type :** „ITS 96 EN 2-4“  
**Description :** In door-leaf (upper secondary closing edge) embedded door closer with hydraulic damping.  
**Arm system :** Slide channel arm assembly  
**Installation :** Fixing in the door-leaf according to manufacturer specifications  
**Size :** 2 - 4  
**Classification :** 3 8 2 - 4 1 1 4  
**Manufacturing plant :** DO 2.1

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**Remarks:** optionally with:

- short or elongated axis (4mm or 8mm).
- dormakaba mounting plate for optional mounting on tube frame doors
- dormakaba sliding arm L=250mm (DIN L or DIN R), mounting distance A=130 mm
- dormakaba slide channel arm assembly G96N with sliding rail 31 mm \* 20 mm , arm length 375 mm
- dormakaba mounting kit BZ 1 or BZ 2 for G96N to adjust the height of the fixing elements of the sliding rail in the frame of profile door in a range of 15 to 24 mm.
- dormakaba slide channel arm assembly G96N 20 with sliding rail 20 mm \* 12 mm, opening limitation and an arm length of 375 mm
- dormakaba mounting kit for G96 N for steel doors
- dormakaba mounting kit for G96 N for wooden doors

**For the use on fire- and smoke doors the door closer has to be adjusted min. to size 3.**

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# Materialprüfungsamt Nordrhein-Westfalen

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**Intended use:**

On single- and double-leaf fire- and/or smoke-protection swing doors

| Essential property         | Sections with requirements in<br>EN 1154:1996/A1:2002/AC:2006  | Performance of the product   |
|----------------------------|--|--|
| Self-closing               | ITS 96 EN 3-6<br>5.2.1 General<br>5.2.3 Closing torque<br>5.2.4 Opening torque<br>5.2.5 Efficiency<br>5.2.6 Closing time<br>5.2.7 Opening angle<br>5.2.8 Overload behaviour<br>5.2.9 Temperature dependence<br>5.2.10 Leaking<br>5.2.11 Damage<br>5.2.12 Latch<br>5.2.13 Back check<br>5.2.14 Delayed action<br>5.2.15 Adjustable closing force<br>5.2.16 Play at zero position<br>5.2.18 Suitability for fire-/smoke-protection doors | Passed<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Class 3) * <sup>1)</sup><br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Passed (Size 3-6)<br>Not applicable<br>Not applicable<br>Passed (Size 3-6)<br>Not applicable<br>Passed (Class 1) |
| Durability of self-closing | 5.2.2 Durability<br>5.2.17.1 Corrosion resistance<br>5.2.17.2 Corrosion resistance<br>5.2.17.3 Corrosion resistance  | Passed Class 8 (500 000 Cycles)<br>Passed Class 4 (240h)<br>Passed Class 4 (240h)<br>Passed Class 4 (240h)   |
| Dangerous substances       | Annex ZA.3   | The manufacturer has not declared any dangerous substances.  |

\*<sup>1)</sup> opening limitation is required.

# Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

**Intended use:**

On single- and double-leaf fire- and/or smoke-protection swing doors

| Essential property         | Sections with requirements in<br>EN 1154:1996/A1:2002/AC:2006   | Performance of the product   |
|----------------------------|---|--|
| Self-closing               | <p>ITS 96 EN 2-4</p> <p>5.2.1 General</p> <p>5.2.3 Closing torque</p> <p>5.2.4 Opening torque</p> <p>5.2.5 Efficiency</p> <p>5.2.6 Closing time</p> <p>5.2.7 Opening angle</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leaking</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable closing force</p> <p>5.2.16 Play at zero position</p> <p>5.2.18 Suitability for fire-/smoke-protection doors</p> | <p>Passed</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Class 3<sup>*1</sup>)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-4)</p> <p>Not applicable</p> <p>Passed (Class 1)</p> |
| Durability of self-closing | <p>5.2.2 Durability</p> <p>5.2.17.1 Corrosion resistance</p> <p>5.2.17.2 Corrosion resistance</p> <p>5.2.17.3 Corrosion resistance</p>  | <p>Passed Class 8 (500 000 Cycles)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p> <p>Passed Class 4 (240h)</p>  |
| Dangerous substances       | Annex ZA.3  | The manufacturer has not declared any dangerous substances.  |

\*<sup>1</sup>) opening limitation is required



# Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

## List of Products

|                              |  |
|------------------------------|--|
| <b>Type :</b>                | „TS 97 EN 2-4“   |
| <b>Description :</b>         | overhead door closer with hydraulic damping.   |
| <b>Arm system :</b>          | Slide channel arm assembly   |
| <b>Installation :</b>        | door leaf fixing on the opening side of the door<br>frame fixing on the closing side of the door |
| <b>Size :</b>                | 2 - 4  |
| <b>Classification :</b>      | 3 8 2-4 1 1 3  |
| <b>Manufacturing plant :</b> | DO 2.1   |
| <b>Remarks:</b>              | For the use on fire- and smoke doors the door closer has to be adjusted min. to size 3.          |

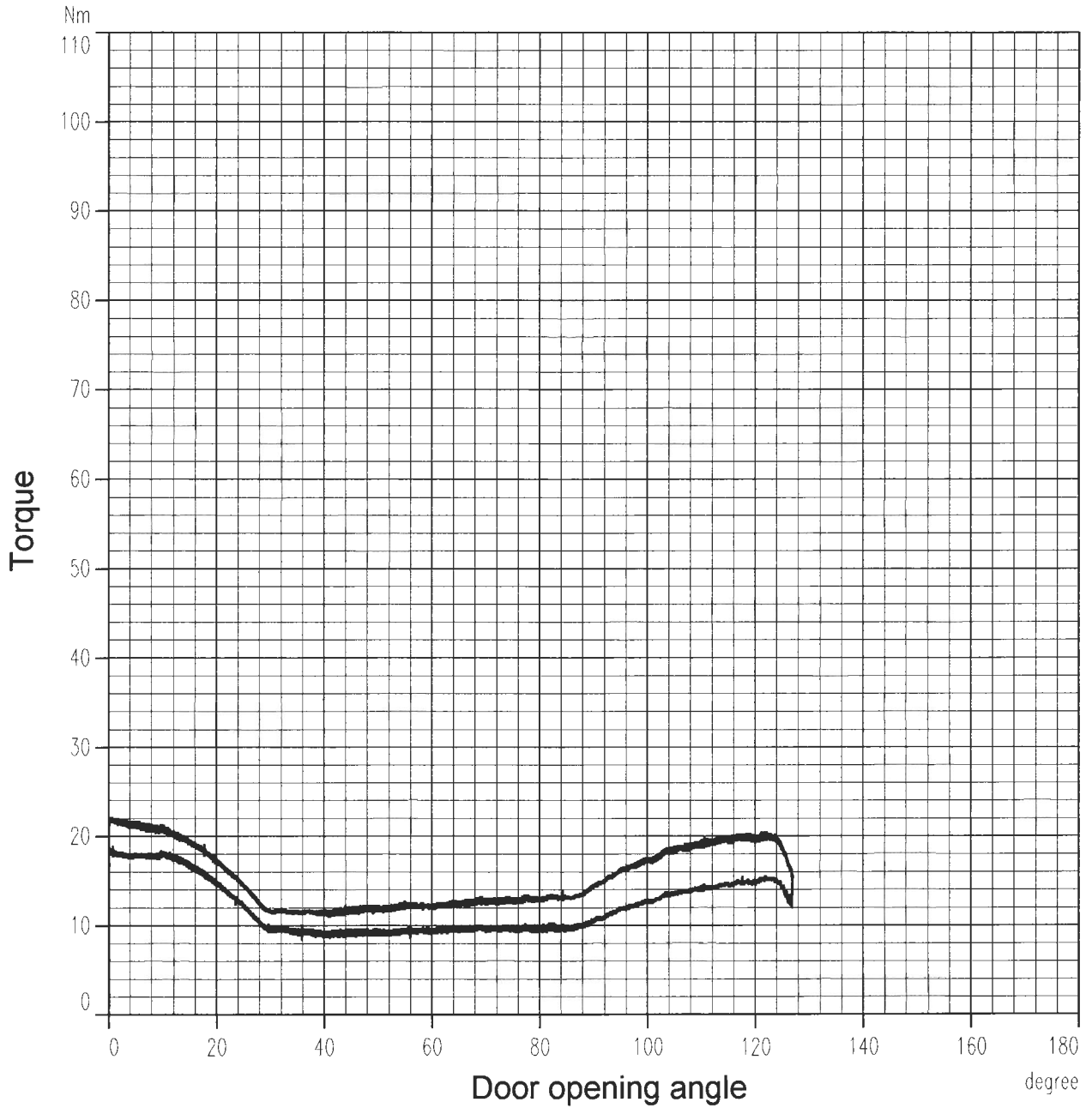
### Intended use:

On single- and double-leaf fire- and/or smoke-protection swing doors

| Essential property         | Sections with requirements in<br>EN 1154:1996/A1:2002/AC:2006  | Performance of the product  |
|----------------------------|--|---|
| Self-closing               | <p>TS 97 EN 2-4</p> <p>5.2.1 General</p> <p>5.2.3 Closing torque</p> <p>5.2.4 Opening torque</p> <p>5.2.5 Efficiency</p> <p>5.2.6 Closing time</p> <p>5.2.7 Opening angle</p> <p>door leaf fixing on the opening side of the door</p> <p>frame fixing on the closing side of the door</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leaking</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable closing force</p> <p>5.2.16 Play at zero position</p> <p>5.2.18 Suitability for fire-/smoke-protection doors</p> | <p>Passed</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Class 3)<sup>*1)</sup></p> <p>Passed (Class 3)<sup>*1)</sup></p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Passed (Size 2-4)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-4)</p> <p>Not applicable</p> <p>Passed (Class 1)</p> |
| Durability of self-closing | <p>5.2.2 Durability</p> <p>5.2.17.1 Corrosion resistance</p> <p>5.2.17.2 Corrosion resistance</p> <p>5.2.17.3 Corrosion resistance</p>   | <p>Passed Class 8 (500 000 Cycles)</p> <p>Passed Class 3 (96h)</p> <p>Passed Class 3 (96h)</p> <p>Passed Class 3 (96h)</p>  |
| Dangerous substances       | Annex ZA.3   | The manufacturer has not declared any dangerous substances.   |

\*1) opening limitation is required

# Torque curve



Controlled door closing device EN 1154

Manufacturer: DORMA  
Model: ITS 96 EN 2-4  
Sample: B 1  
Size: 3  
5000 Cycles

Standard installation

20.10.2005

*Kuus*

