



Materialprüfungsamt Nordrhein-Westfalen

Prüfen • Überwachen • Zertifizieren

Certificate of constancy of performance

0432-CPR-00099-12

Version 03

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

ECO TS-51, ECO TS-52, ECO TS-61

Door Closer with a controlled closing-sequence for single- and double leaf doors in accordance with the combination and classification in Annex 2

placed on the market under the name or trade mark of

ECO Schulte GmbH & Co.KG

Iserlohner Landstraße 89
58706 Menden, Deutschland

and produced in the manufacturing plant(s)

DO 2.32

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 27.10.2017 and will remain valid until 27.10.2022 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 18.05.2020

By order



Dipl.-Ing. (FH) T. Wilms

Head of Certification Body Department 22.30.2

This Certificate consists of 1 page and 2 annex(es).

This Certificate replaces the Certificate no. 0432-CPR-00099-12 dated 07.11.2017, Version 02.

The original of this document was issued in German language.

In case of doubt only the German version is valid.

**Manufacturing Plant**

Product	Manufacturing Plant
Door Closer with slide channel arm assembly	ECO Schulte Door Technology Zhuhai Co. Ltd. No.31, Zhuhai Free trade Zone 519030 Zhuhai, Guangdong People's Republic of China DO2.32

**List of Products**

Type:	„ECO TS-51 EN 1-4“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	1 - 4
Classification:	Door-leaf fixing, pull side 4 8 1-4 1 1 3 Frame fixing, push side 3 8 1-4 1 1 3
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	passed passed (size 1-4) passed (size 1-4) passed (size 1-4) passed passed(class 4) passed(class 3) passed passed passed passed passed passed (size 1-4) not applicable passed (size 1-4) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	passed (class 8) passed class 3 (96h) passed class 3 (96h) passed class 3 (96h)
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**List of Products**

Type:	„ECO TS-51 G“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	1 - 4
Classification:	Door-leaf fixing, pull side 4 8 1-4 1 1 3 Frame fixing, push side 3 8 1-4 1 1 3
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate. For band gap

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 1-4)</i> <i>passed (size 1-4)</i> <i>passed (size 1-4)</i> <i>passed</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 1-4)</i> <i>not applicable</i> <i>passed (size 1-4)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 3 (96h)</i> <i>passed class 3 (96h)</i> <i>passed class 3 (96h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>

**List of Products**

Type:	„ECO TS-52 EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence
Arm system:	slide channel arm assembly
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Door-leaf fixing, push side in accordance with manufacturer specification Frame fixing, pull side in accordance with manufacturer specification Frame fixing, push side in accordance with manufacturer specification
Size:	2 - 5
Classification:	Door-leaf fixing, pull side 4 8 2-5 1 1 4 Door-leaf fixing, push side 3 8 2-5 1 1 4 Frame fixing, pull side 4 8 2-5 1 1 4 Frame fixing, push side 3 8 2-5 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Door-leaf fixing, push side Frame fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>not applicable</i> <i>not applicable</i> <i>passed (size 2-5)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	2 - 5
Classification:	Door-leaf fixing, pull side 4 8 2-5 1 1 4 Frame fixing, push side 3 8 2-5 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 2-5)</i> <i>not applicable</i> <i>passed (size 2-5)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 G EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	2 - 5
Classification:	Door-leaf fixing, push side 3 8 2-5 1 1 4 Frame fixing, pull side 4 8 2-5 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, push side Frame fixing, pull side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed (size 2-5)</i> <i>passed</i> <i>passed(class 3)</i> <i>passed(class 4)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 2-5)</i> <i>not applicable</i> <i>passed (size 2-5)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>According to the manufacturer, there are no dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 EN 2-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	2 - 6
Classification:	Door-leaf fixing, pull side 4 8 2-6 1 1 4 Frame fixing, push side 3 8 2-6 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 2-6)</i> <i>passed (size 2-6)</i> <i>passed (size 2-6)</i> <i>passed</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 2-6)</i> <i>not applicable</i> <i>passed (size 2-6)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 G EN 2-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	2 - 6
Classification:	Door-leaf fixing, pull side 3 8 2-6 1 1 4 Frame fixing, push side 4 8 2-6 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, push side Frame fixing, pull side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 2-6)</i> <i>passed (size 2-6)</i> <i>passed (size 2-6)</i> <i>passed</i> <i>passed(class 3)</i> <i>passed(class 4)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 2-6)</i> <i>not applicable</i> <i>passed (size 2-6)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 G EN 3-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	3 - 6
Classification:	Door-leaf fixing, pull side 3 8 3-6 1 1 4 Frame fixing, push side 4 8 3-6 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, push side Frame fixing, pull side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	passed passed (size 3-6) passed (size 3-6) passed (size 3-6) passed passed(class 3) passed(class 4) passed passed passed passed passed (size 3-6) not applicable passed (size 3-6) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h)
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances</i>

**List of Products**

Type:	„ECO TS-61 EN 5-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	5 - 6
Classification:	Door-leaf fixing, pull side 4 8 5-6 1 1 4 Frame fixing, push side 3 8 5-6 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 5-6)</i> <i>passed (size 5-6)</i> <i>passed (size 5-6)</i> <i>passed</i> <i>passed(class 4)</i> <i>passed(class 3)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 5-6)</i> <i>not applicable</i> <i>passed (size 5-6)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>According to the manufacturer, there are no dangerous substances.</i>

**List of Products**

Type:	„ECO TS-61 G EN 5-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable opening dampening
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	5 - 6
Classification:	Door-leaf fixing, push side 3 8 5-6 1 1 4 Frame fixing, pull side 4 8 5-6 1 1 4
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate

Intended Use:

On single- and double leaf fire- and smoke protection doors

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, push side Frame fixing, pull side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	<i>passed</i> <i>passed (size 5-6)</i> <i>passed (size 5-6)</i> <i>passed (size 5-6)</i> <i>passed</i> <i>passed(class 3)</i> <i>passed(class 4)</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed</i> <i>passed (size 5-6)</i> <i>not applicable</i> <i>passed (size 5-6)</i> <i>not applicable</i> <i>passed (class 1)</i>
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	<i>passed (class 8)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i> <i>passed class 4 (240h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances</i>