

Materialprüfungsamt Nordrhein-Westfalen

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Certificate of constancy of performance

0432-CPR-00099-05

Version 04

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

Electrically powered hold-open devices

ECO EF, ECO EF BG, ECO EF III, ECO EFR III, ECO EF BG III, ECO EFR BG III

for single- and double-leaf swing doors as detailed and classified on annex 2

placed on the market under the name or trade mark of

ECO Schulte GmbH & Co. KG

Iserlohner Landstraße 89
58706 Menden, Germany

and produced in the manufacturing plant(s)

DO 2.17

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

EN 1155:1997/A1:2002/AC:2006

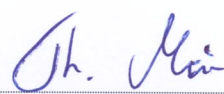
under **system 1** for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 28.01.2019 and will remain valid until 28.01.2029 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 29.01.2024



By order 
RBA Th. Meinks
Deputy Head of Certification Body, Department
2230

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

This certificate replaces Certificate No. 0432-CPR-000099-05 dated 01.02.2023,
Version 03.



The original of this document was issued in German language.

In case of doubt only the German version is valid.

List of Products

Type :	ECO EF
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51, ECO TS-52, ECO TS-61, EN 2-5, ECO TS-61 EN 2-6, ECO TS-61 EN 5-6 ECO TS-62, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, pull side
Size :	3 - 6
Classification :	3 8 3-6 1 1 0
Manufacturing plant :	DO 2.17
Remarks :	

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold-open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold-open 5.2.8 Overload behaviour 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire-/smoke protection doors	Passed (Size 3-6) Passed (Size 3-6) 24 V/ DC; Residual ripple 30 % Passed (Size 3-6) Passed Passed Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Not applicable Passed Passed (Size 3-6) Passed (Size 3-6) Class 1: Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500 000 Cycles): Passed Not required Class 0 Not required Class 0 Not required Class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-31</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-33</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Class 4: Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-41</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-51</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-52</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 EN 3-6</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 32-6)</p> <p>Passed (Size 3-6)</p> <p>Passed</p> <p>Class 4: Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Class 4: Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-62</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO FTS III EN 3-6</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, pull side</p> <p>frame fixing pull side</p> <p>door leaf fixing push side</p> <p>frame fixing, push side</p> <p>5.2.8 Overload behavior</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 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Class 4)</p> <p>Passed (Class 4)</p> <p>Passed (Class 3)</p> <p>Passed (class 3)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</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 2 (48h)</p> <p>Passed Class 2 (48h)</p> <p>Passed Class 2 (48h)</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	ECO FTS III EN 4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle door-leaf fixing, pull side frame fixing pull side door leaf fixing push side frame fixing, push side 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable closing force 5.2.16 Play at zero position 5.2.18 Suitability for fire-/smoke-protection doors	Passed Passed (Size 4) Passed (Size 4) Passed (Size 4) Passed (size 4) Passed (Class 4) Passed (Class 4) Passed (Class 3) Passed (class 3) Passed (size 4) Passed (size 4) Passed (size 4) Passed (size 4) Passed (Size 4) Passed (Size 4) Not applicable Not applicable Passed (Size 4) Not applicable Class 1: Passed
Durability of self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 2 (48h) Passed Class 2 (48h) Passed Class 2 (48h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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List of Products

Type :	ECO EF BG
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51 G, ECO TS-52, ECO TS-61 G EN 2-5, ECO TS-61 G EN 3-6, ECO TS-61 G EN 5-6, ECO TS-62 G, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, push side
Size :	3 - 5
Classification :	3 8 3-5 1 1 0
Manufacturing plant :	DO 2.17
Remarks :	

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold-open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold-open 5.2.8 Overload behaviour 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire-/smoke protection doors	Passed (Size 3-5) Passed (Size 3-5) 24 V/ DC; Residual ripple 30 % Passed (Size 3-5) Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Not applicable Passed Passed (Size 3-5) Passed (Size 3-5) Class 1: Passed
Durability of the ability to release	5.2.4 Durability 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500 000 Cycles): Passed Not required Class 0 Not required Class 0 Not required Class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-31</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-33</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Class 3: Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-41</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-51 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-52</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G EN 3-6</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 3: Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Class 3: Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-62 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO FTS III EN 3-6</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, pull side</p> <p>frame fixing pull side</p> <p>door leaf fixing push side</p> <p>frame fixing, push side</p> <p>5.2.8 Overload behavior</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 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Class 4)</p> <p>Passed (Class 4)</p> <p>Passed (Class 3)</p> <p>Passed (class 3)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</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 2 (48h)</p> <p>Passed Class 2 (48h)</p> <p>Passed Class 2 (48h)</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	ECO FTS III EN 4 5.2.1 General 5.2.3 Closing torque 5.2.4 Opening torque 5.2.5 Efficiency 5.2.6 Closing time 5.2.7 Opening angle door-leaf fixing, pull side frame fixing pull side door leaf fixing push side frame fixing, push side 5.2.8 Overload behavior 5.2.9 Temperature dependence 5.2.10 Leaking 5.2.11 Damage 5.2.12 Latch 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable closing force 5.2.16 Play at zero position 5.2.18 Suitability for fire-/smoke-protection doors	Passed Passed (Size 4) Passed (Size 4) Passed (Size 4) Passed (size 4) Passed (Class 4) Passed (Class 4) Passed (Class 3) Passed (class 3) Passed (size 4) Passed (size 4) Passed (size 4) Passed (size 4) Passed (Size 4) Passed (Size 4) Not applicable Not applicable Passed (Size 4) Not applicable Class 1: Passed
Durability of self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Passed Class 8 (500 000 Cycles) Passed Class 2 (48h) Passed Class 2 (48h) Passed Class 2 (48h)
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type :	ECO EF III
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51, ECO TS-52, ECO TS-61 EN 2-5, ECO TS-61 EN 3-6, ECO TS-61 EN 5-6 ECO TS-62, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, pull side
Size :	3 - 6
Classification :	3 8 3-6 1 1 2
Manufacturing plant :	DO 2.17
Remarks :	optional with arm 6*336 mm, 4*336 mm oder 4*358mm

Type :	ECO EFR III
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51, ECO TS-52, ECO TS-61 EN 2-5, ECO TS-61 EN 3-6, ECO TS-61 EN 5-6 ECO TS-62, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, pull side
Size :	3 - 6
Classification :	3 8 3-6 1 1 0
Manufacturing plant :	DO 2.17
Remarks :	optional with arm 6*336 mm, 4*336 mm oder 4*358mm ECO EFR III: with integrated smoke detector

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold-open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold-open 5.2.8 Overload behaviour 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire-/smoke protection doors	Passed (Size 3-6) Passed (Size 3-6) 24 V/ DC; Residual ripple 30 % Passed (Size 3-6) Passed Passed Passed Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Not applicable Passed Passed (Size 3-6) Passed (Size 3-6) Class 1: Passed
Durability of the ability to release	5.2.4 Durability ECO EF III 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3 ECO EFR III 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500 000 Cycles): Passed Class 2: Passed Class 2: Passed Class 2: Passed Not required Class 0 Not required Class 0 Not required Class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-31</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-33</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 1-3)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-41</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-51</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 4: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-52</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 EN 3-6</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 4: Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 2-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Class 4: Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-62</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, pull side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 4: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO FTS III EN 3-6</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, pull side</p> <p>frame fixing pull side</p> <p>door leaf fixing push side</p> <p>frame fixing, push side</p> <p>5.2.8 Overload behavior</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 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Class 4)</p> <p>Passed (Class 4)</p> <p>Passed (Class 3)</p> <p>Passed (class 3)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</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 2 (48h)</p> <p>Passed Class 2 (48h)</p> <p>Passed Class 2 (48h)</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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<i>Essential property</i>	<i>Sections with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	<i>ECO FTS III EN 4</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 pull side door leaf fixing push side frame fixing, push side 5.2.8 <i>Overload behavior</i> 5.2.9 <i>Temperature dependence</i> 5.2.10 <i>Leaking</i> 5.2.11 <i>Damage</i> 5.2.12 <i>Latch</i> 5.2.13 <i>Back check</i> 5.2.14 <i>Delayed action</i> 5.2.15 <i>Adjustable closing force</i> 5.2.16 <i>Play at zero position</i> 5.2.18 <i>Suitability for fire-/smoke-protection doors</i>	<i>Passed</i> <i>Passed (Size 4)</i> <i>Passed (Size 4)</i> <i>Passed (Size 4)</i> <i>Passed (size 4)</i> <i>Passed (Class 4)</i> <i>Passed (Class 4)</i> <i>Passed (Class 3)</i> <i>Passed (class 3)</i> <i>Passed (size 4)</i> <i>Passed (size 4)</i> <i>Passed (size 4)</i> <i>Passed (size 4)</i> <i>Passed (Size 4)</i> <i>Passed (Size 4)</i> <i>Not applicable</i> <i>Not applicable</i> <i>Passed (Size 4)</i> <i>Not applicable</i> <i>Class 1: Passed</i>
<i>Durability of 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 (500 000 Cycles)</i> <i>Passed Class 2 (48h)</i> <i>Passed Class 2 (48h)</i> <i>Passed Class 2 (48h)</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 EF BG III
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51 G, ECO TS-52 ECO TS-61 G EN 2-5, ECO TS-61 G EN 3-6, ECO TS-61 G EN 5-6 ECO TS-62 G, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, push side
Size :	3 - 5
Classification :	3 8 3-5 1 1 2
Manufacturing plant :	DO 2.17
Remarks :	optional with arm 6*336 mm, 4*336 mm oder 4*358mm

Type :	ECO EFR BG III
Description :	Frame fixed, electrically powered hold-open devices integrated in the slide channel arm assembly.
Used door closers :	ECO TS-31, ECO TS-33, ECO TS-41, ECO TS-51 G, ECO TS-52 ECO TS-61 G EN 2-5, ECO TS-61 G EN 3-6, ECO TS-61 G EN 5-6 ECO TS-62 G, ECO FTS III EN 3-6, ECO FTS III EN 4
Arm system :	Slide channel arm assembly
Mounting :	Door-leaf fixing, push side
Size :	3 - 5
Classification :	3 8 3-5 1 1 0
Manufacturing plant :	DO 2.17
Remarks :	optional with arm 6*336 mm, 4*336 mm oder 4*358mm ECO EFR BG III: with integrated smoke detector

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of product
Ability to release	5.1.2 Release from every angle 5.1.3 Preventing the release 5.1.4 Voltage supply 5.1.5 Extern electrical connection 5.1.6 Inlet for external cable management 5.2.1 General 5.2.2 Electrical release 5.2.5 Hold-open angle 5.2.6 Manual disengagement 5.2.7 Continuous hold-open 5.2.8 Overload behaviour 5.2.9 Shutter release delay 5.2.10 Electrical power 5.2.11 Temperature increase 5.2.12 Damage 5.2.13 Suitability for fire-/smoke protection doors	Passed (Size 3-5) Passed (Size 3-5) 24 V/ DC; Residual ripple 30 % Passed (Size 3-5) Passed Passed Passed Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Passed (Size 3-5) Not applicable Passed Passed (Size 3-5) Passed (Size 3-5) Class 1: Passed
Durability of the ability to release	5.2.4 Durability ECO EF BG III 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3 ECO EFR BG III 5.2.14 Corrosion resistance 5.2.14.1 5.2.14.2 5.2.14.3	Class 8 (500 000 Cycles): Passed Class 2: Passed Class 2: Passed Class 2: Passed Not required Class 0 Not required Class 0 Not required Class 0
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-31</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Passed (Size 1-3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-33</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Class 3: Passed</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Passed (Size 3)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-41</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-51 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Class 3: Passed</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Passed (Size 1-4)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-52</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G EN 3-6</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 3: Passed</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-61 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Class 3: Passed</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Passed (Size 5-6)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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Intended use:

For single and double leaf fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	<p>ECO TS-62 G</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, push side</p> <p>5.2.8 Overload test</p> <p>5.2.9 Temperature dependence</p> <p>5.2.10 Leakage</p> <p>5.2.11 Damage</p> <p>5.2.12 Latch regulation</p> <p>5.2.13 Back check</p> <p>5.2.14 Delayed action</p> <p>5.2.15 Adjustable force</p> <p>5.2.16 Free play at zero position</p> <p>5.2.18 Use of fire-/ smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Class 3: Passed</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Passed (Size 2-5)</p> <p>Not applicable</p> <p>Class 1: Passed</p>
Durability 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>Class 8 (500 000 Cycles):Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p> <p>Class 4 (240h): Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO FTS III EN 3-6</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, pull side</p> <p>frame fixing pull side</p> <p>door leaf fixing push side</p> <p>frame fixing, push side</p> <p>5.2.8 Overload behavior</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 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Class 4)</p> <p>Passed (Class 4)</p> <p>Passed (Class 3)</p> <p>Passed (class 3)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Not applicable</p> <p>Passed (Size 3-6)</p> <p>Not applicable</p> <p>Class 1: Passed</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 2 (48h)</p> <p>Passed Class 2 (48h)</p> <p>Passed Class 2 (48h)</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Materialprüfungsamt Nordrhein-Westfalen

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<i>Essential property</i>	<i>Sections with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	<i>ECO FTS III EN 3-6</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 pull side door leaf fixing push side frame fixing, push side 5.2.8 <i>Overload behavior</i> 5.2.9 <i>Temperature dependence</i> 5.2.10 <i>Leaking</i> 5.2.11 <i>Damage</i> 5.2.12 <i>Latch</i> 5.2.13 <i>Back check</i> 5.2.14 <i>Delayed action</i> 5.2.15 <i>Adjustable closing force</i> 5.2.16 <i>Play at zero position</i> 5.2.18 <i>Suitability for fire-/smoke-protection doors</i>	<i>Passed</i> <i>Passed (Size 3-6)</i> <i>Passed (Size 3-6)</i> <i>Passed (Size 3-6)</i> <i>Passed (size 3-6)</i> <i>Passed (Class 4)</i> <i>Passed (Class 4)</i> <i>Passed (Class 3)</i> <i>Passed (class 3)</i> <i>Passed (size 3-6)</i> <i>Passed (size 3-6)</i> <i>Passed (size 3-6)</i> <i>Passed (Size 3-6)</i> <i>Passed (Size 3-6)</i> <i>Not applicable</i> <i>Not applicable</i> <i>Passed (Size 3-6)</i> <i>Not applicable</i> <i>Class 1: Passed</i>
<i>Durability of 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 (500 000 Cycles)</i> <i>Passed Class 2 (48h)</i> <i>Passed Class 2 (48h)</i> <i>Passed Class 2 (48h)</i>
<i>Dangerous substances</i>	<i>Annex ZA.3</i>	<i>The manufacturer has not declared any dangerous substances.</i>