

# Materialprüfungsamt Nordrhein-Westfalen

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## Certificate of constancy of performance

### 0432-CPR-00099-06

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

**Door coordinator devices with and without integrated electrically powered hold-open devices**  
**ECO SR, ECO SR-R III, ECO SR-EF-2, ECO SR-EFR-2, ECO SR-EF-1S, ECO SR-EFR-1S,**  
**ECO SR III, ECO SR-EF III, ECO SR-EFR III, ECO SR-EF-1S III, ECO SR-EFR-1S III,**  
**ECO SR BG, ECO SR-R BG III, ECO SR-EF BG, ECO SR-EFR BG, ECO SR-EF BG III, ECO SR-EFR BG III,**  
**ECO IS SR, ECO IS-SR-EF, ECO SR BG III, ECO SR-EF-1S BG, ECO SR-EF-1S BG III, ECO SR-EFR-1S BG III**

Door coordinator devices with and without integrated electrically powered hold-open device for double-leaf doors in accordance with the composition and classification in annex 1

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)

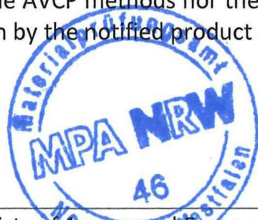
### EN 1158: 1997/A1:2002/AC:2006

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 28.01.2024 as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

Dortmund, 28.10.2020



By order

Dipl.-Ing. Friedrich  
Head of Certification Body

This Certificate consists of 1 page and 5 annex(es).  
This Certificate replaces the Certificate no. 0432-CPR-00099-06 dated  
13.05.2020, Version 02.



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

## List of Products

<b>Type :</b>	ECO SR
<b>Description :</b>	Mechanical door coordinator device ECO SR for double-leaf doors
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 3
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.
<b>Type :</b>	ECO SR-R III
<b>Description :</b>	Mechanical door coordinator device ECO SR for double-leaf doors
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.  ECO SR-R III: Variant with additional smoke detector. The variant is only permitted in conjunction with EN 1155 tested and certified hold-open devices. Use in conjunction with a hold-open device only on the inactive leaf is not permitted.
<b>Type :</b>	ECO SR III
<b>Description :</b>	Mechanical door coordinator device ECO SR for double-leaf doors
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.  ECO SR III: Variant is usable for DIN right and left.

# Materialprüfungsamt Nordrhein-Westfalen

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**Intended use:**

On double-leaf fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	5.1.2 Completeness of products 5.1.3 Correct closing sequence  5.2.1 General 5.2.2 Overload behaviour in the closing direction 5.2.3 Manipulation 5.2.4 Resistance of the waiting position 5.2.6 Damage 5.2.8 Suitability for fire / smoke protection doors	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) Class 1: Passed
Durability of Self-closing	5.2.5 Durability ECO SR 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3 ECO SR-R III 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3 ECO SR III 5.2.7 Corrosion resistance 5.2.7.1 5.2.7.2 5.2.7.3	Class 8 (500.000 cycles): Passed (Size 3-6)  Class 3 (96h): Passed Class 3 (96h): Passed Class 3 (96h): Passed  Class 0: not required Class 0: not required Class 0: not required  Class 2 (48h): Passed Class 2 (48h): Passed Class 2 (48h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-31 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 1-3) Passed (Size 1-3) Passed (Size 1-3) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 1-3) Not applicable Passed (Size 1-3) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 3 (96h): Passed Class 3 (96h): Passed Class 3 (96h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-33 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 3) Not applicable Passed (Size 3) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 3 (96h): Passed Class 3 (96h): Passed Class 3 (96h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-61 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 2-6) Passed (Size 2-6) Passed (Size 2-6) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 2-6) Not applicable Passed (Size 2-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-61 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 5-6) Passed (Size 5-6) Passed (Size 5-6) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 5-6) Not applicable Passed (Size 5-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

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**Intended use:**

For 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.



## List of Products

<b>Type :</b>	ECO SR-EF-2, ECO SR-EFR-2, ECO SR EFR III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF in active and inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved. ECO SR-EFR-2: with integrated smoke detector ECO SR-EFR III: additional with adjustable holding force
<b>Type :</b>	ECO SR-EF-1S, ECO SR-EFR-1S, ECO SR-EFR-1S III
<b>Description :</b>	Mechanical door coordinator device ECO SR-EF-1S for double-leaf doors and hold-open device ECO EF in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.. ECO SR-EFR-1S: with integrated smoke detector ECO SR-EFR-1S III: additional with adjustable holding force
<b>Type :</b>	ECO SR EF III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF in active and inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved. ECO SR-EFR-2: with integrated smoke detector ECO SR-EFR III: additional with adjustable holding force



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<b>Type :</b>	ECO SR-EF-1S III
<b>Description :</b>	Mechanical door coordinator device ECO SR-EF-1S for double-leaf doors and hold-open device ECO EF in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 EN 1-4, ECO TS-52 EN2-5, ECO-TS-61 EN 2-5, ECO-TS-61 EN 2-6, ECO-TS-61 EN 5-6, ECO-TS-62 EN 2-5
<b>Installation :</b>	Door-leaf fixing, pull side according to manufacturer specifications
<b>Size :</b>	3 - 6
<b>Classification :</b>	3 5 3-6 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved. ECO SR-EFR-1S III: additional with adjustable holding force

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## Intended use:

On double-leaf fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO SR</p> <p>5.1.2 Completeness of products</p> <p>5.1.3 Correct closing sequence</p> <p>5.2.1 General</p> <p>5.2.2 Overload behaviour in the closing direction</p> <p>5.2.3 Manipulation</p> <p>5.2.4 Resistance of the waiting position</p> <p>5.2.6 Damage</p> <p>5.2.8 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 (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 1: Passed</p>
Durability of Self-closing	<p>5.2.5 Durability</p> <p>5.2.7 Corrosion resistance</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p>	<p>Class 8 (500.000 cycles): Passed (Size 3-6)</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.

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	<p>ECO SR-EF-2 + ECO SR-EF III</p> <p>5.1.2 Release from every angle</p> <p>5.1.3 Preventing the release</p> <p>5.1.4 Voltage supply</p> <p>5.1.5 Extern electrical connection</p> <p>5.1.6 Inlet for external cable management</p> <p>5.2.1 General</p> <p>5.2.2 Electrical release</p> <p>5.2.5 Hold open angle</p> <p>5.2.6 Manual disengagement</p> <p>5.2.7 Continuous hold open</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Shutter release delay</p> <p>5.2.10 Electrical power</p> <p>5.2.11 Temperature increase</p> <p>5.2.12 Damage</p> <p>5.2.13 Suitability for fire / smoke protection doors</p>	<p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>24 V/ DC; Residual ripple 30 % Passed</p> <p>Passed</p> <p>Passed</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 (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>No performance declared</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 1:Passed</p>
Durability of the ability to release	<p>5.2.4 Durability</p> <p>ECO SR-EF-2, ECO SR-EFR-2, ECO SR-EFR III</p> <p>5.2.14 Corrosion resistance</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p> <p>ECO SR-EF III</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p>	<p>Class 8 (500 000 cycles) Passed (Size 3-6)</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

# Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	<p>ECO SR-EF-1S, ECO SR EF 1S III</p> <p>5.1.2 Release from every angle</p> <p>5.1.3 Preventing the release</p> <p>5.1.4 Voltage supply</p> <p>5.1.5 Extern electrical connection</p> <p>5.1.6 Inlet for external cable management</p> <p>5.2.1 General</p> <p>5.2.2 Electrical release</p> <p>5.2.5 Hold open angle</p> <p>5.2.6 Manual disengagement</p> <p>5.2.7 Continuous hold open</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Shutter release delay</p> <p>5.2.10 Electrical power</p> <p>5.2.11 Temperature increase</p> <p>5.2.12 Damage</p> <p>5.2.13 Suitability for fire / smoke protection doors</p>	<p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>24 V/ DC; Residual ripple 30 % Passed</p> <p>Passed</p> <p>Passed</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 (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>No performance declared</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Passed (Size 3-6)</p> <p>Class 1:Passed</p>
Durability of the ability to release	<p>5.2.4 Durability</p> <p>ECO SR-EF-1S, ECO SR-EFR-1S, ECO SR EFR 1S III</p> <p>5.2.14 Corrosion resistance</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p> <p>ECO SR EF 1S III</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p>	<p>Class 8 (500 000 cycles) Passed (Size 3-6)</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-31 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 1-3) Passed (Size 1-3) Passed (Size 1-3) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 1-3) Not applicable Passed (Size 1-3) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 3 (96h): Passed Class 3 (96h): Passed Class 3 (96h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-33 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 3) Passed (Size 3) Passed (Size 3) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 3) Not applicable Passed (Size 3) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 3 (96h): Passed Class 3 (96h): Passed Class 3 (96h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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 fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-52 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed Class 4: Passed Passed Passed Passed Passed Not applicable Not applicable Passed (Size 2-5) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-61 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 2-5) Passed (Size 2-5) Passed (Size 2-5) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 2-5) Not applicable Passed (Size 2-5) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-61 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 2-6) Passed (Size 2-6) Passed (Size 2-6) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 2-6) Not applicable Passed (Size 2-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For fire- and/or smoke protection swingdoors

Essential characteristics	Clauses with requirements in EN 1154:1996/A1:2002/AC:2006	Performance of product
Self-closing	ECO TS-61 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 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 5-6) Passed (Size 5-6) Passed (Size 5-6) Passed Class 4: Passed Passed Passed Passed Passed Passed (Size 5-6) Not applicable Passed (Size 5-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

**Intended use:**

For 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</p> <p>Class 4: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

## List of Products

<b>Type :</b>	ECO SR BG
<b>Description :</b>	Mechanical door coordinator device ECO SR BG for double-leaf doors.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 3
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved.
<b>Type :</b>	ECO SR-R BG III
<b>Description :</b>	Mechanical door coordinator device ECO SR BG for double-leaf doors.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved.  ECO SR-R BG III: Variant with additional smoke detector. The variant is only permitted in conjunction with EN 1155 tested and certified hold-open devices. Use in conjunction with a hold-open device only on the inactive leaf is not permitted.
<b>Type :</b>	ECO SR BG III
<b>Description :</b>	Mechanical door coordinator device ECO SR BG for double-leaf doors.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved.

**Intended use:**

On double-leaf fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO SR BG</p> <p>5.1.2 Completeness of products</p> <p>5.1.3 Correct closing sequence</p> <p>5.2.1 General</p> <p>5.2.2 Overload behaviour in the closing direction</p> <p>5.2.3 Manipulation</p> <p>5.2.4 Resistance of the waiting position</p> <p>5.2.6 Damage</p> <p>5.2.8 Suitability for fire / smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Class 1: Passed</p>
Durability of Self-closing	<p>5.2.5 Durability</p> <p>ECO SR BG</p> <p>5.2.7 Corrosion resistance</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p> <p>ECO SR-R BG III</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p> <p>ECO SR BG III</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p>	<p>Class 8 (500.000 cycles): Passed (Size 3-5)</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 2 (48h): Passed</p> <p>Class 2 (48h): Passed</p> <p>Class 2 (48h): 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-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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

**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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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-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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed (Size 3-6)</p> <p>Not applicable</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

### 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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

## List of Products

<b>Type :</b>	ECO SR-EF BG, ECO SR-EFR BG, ECO SR-EFR BG III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF BG in active and inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved. ECO SR-EFR BG: with integrated smoke detector ECO SR-EFR BG III: additional with adjustable holding force and integrated smoke detector
<b>Type :</b>	ECO SR-EF BG III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF BG in active and inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved. ECO SR-EF BG III: Variant with adjustable holding force
<b>Type :</b>	ECO SR-EF 1S BG
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leaves is not achieved.

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<b>Type :</b>	ECO SR-EF 1S BG III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF III in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 2
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leafs is not achieved.
<b>Type :</b>	ECO SR-EFR-1S BG III
<b>Description :</b>	Mechanical door coordinator device for double-leaf doors and hold-open device ECO EF III in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO TS-31 EN 1-3, ECO TS-33 EN 3, ECO TS-41 EN 1-4, ECO TS-51 G EN 1-4, ECO TS-52 EN2-5, 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 EN 2-5
<b>Installation :</b>	Door-leaf fixing, push side according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar MK 2 is required if the correct closing sequence of both door-leafs is not achieved.  ECO SR-EFR-1S BG III: additional with adjustable holding force and integrated smoke detector

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## Intended use:

On double-leaf fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO SR BG</p> <p>5.1.2 Completeness of products</p> <p>5.1.3 Correct closing sequence</p> <p>5.2.1 General</p> <p>5.2.2 Overload behaviour in the closing direction</p> <p>5.2.3 Manipulation</p> <p>5.2.4 Resistance of the waiting position</p> <p>5.2.6 Damage</p> <p>5.2.8 Suitability for fire / smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Class 1: Passed</p>
Durability of Self-closing	<p>5.2.5 Durability</p> <p>ECO SR BG</p> <p>5.2.7 Corrosion resistance</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p> <p>ECO SR-R BG III</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p>	<p>Class 8 (500.000 cycles): Passed (Size 3-5)</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 3 (96h): Passed</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	<p>5.1.2 Release from every angle</p> <p>5.1.3 Preventing the release</p> <p>5.1.4 Voltage supply</p> <p>5.1.5 Extern electrical connection</p> <p>5.1.6 Inlet for external cable management</p> <p>5.2.1 General</p> <p>5.2.2 Electrical release</p> <p>5.2.5 Hold open angle</p> <p>5.2.6 Manual disengagement</p> <p>5.2.7 Continuous hold open</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Shutter release delay</p> <p>5.2.10 Electrical power</p> <p>5.2.11 Temperature increase</p> <p>5.2.12 Damage</p> <p>5.2.13 Suitability for fire / smoke protection doors</p>	<p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>24 V/ DC; Residual ripple 30 % Passed (Size 3-5)</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>No performance declared</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Class 1:Passed</p>
Durability of the ability to release	<p>5.2.4 Durability</p> <p>ECO SR-EF BG, ECO SR-EFR BG, ECO SR-EFR BG III, ECO SR-EFR-1S BG, ECO SR-EFR-1S BG III</p> <p>5.2.14 Corrosion resistance</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p> <p>ECO SR-EF BG III, ECO SR-EF-1S BG III</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p>	<p>Class 8 (500 000 cycles) Passed (Size 3-5)</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p> <p>Class 2 (48h):Passed</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances

## Intended use:



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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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

**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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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-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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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	ECO TS-61 G 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, push side 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 3-6) Passed (Size 3-6) Passed (Size 3-6) Passed Class 3: Passed Passed Passed Passed Passed Passed (Size 3-6) Not applicable Passed (Size 3-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
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	ECO TS-61 G 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, push side 5.2.8 Overload test 5.2.9 Temperature dependence 5.2.10 Leakage 5.2.11 Damage 5.2.12 Latch regulation 5.2.13 Back check 5.2.14 Delayed action 5.2.15 Adjustable force 5.2.16 Free play at zero position 5.2.18 Use of fire-/ smoke protection doors	Passed Passed (Size 5-6) Passed (Size 5-6) Passed (Size 5-6) Passed Class 3: Passed Passed Passed Passed Passed Passed (Size 5-6) Not applicable Passed (Size 5-6) Not applicable Class 1: Passed
Durability Self-closing	5.2.2 Durability 5.2.17.1 Corrosion resistance 5.2.17.2 Corrosion resistance 5.2.17.3 Corrosion resistance	Class 8 (500 000 Cycles):Passed Class 4 (240h): Passed Class 4 (240h): Passed Class 4 (240h): Passed
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-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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.

## List of Products

<b>Type :</b>	ECO IS SR
<b>Description :</b>	Mechanical door coordinator device ECO IS SR BG for double-leaf doors.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO ITS Multi-Genius EN 1-4, ECO ITS Multi-Genius EN 2-5
<b>Installation :</b>	Fixing of the door coordinator device according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.
<b>Type :</b>	ECO IS-SR-EF
<b>Description :</b>	Mechanical door coordinator device ECO IS-SR-EF for double-leaf doors and hold-open device ECO IS EF in inactive door-leaf slide channel arm assembly.
<b>Arm system :</b>	Slide channel arm assembly
<b>Used door closers:</b>	ECO ITS Multi-Genius EN 1-4, ECO ITS Multi-Genius EN 2-5
<b>Installation :</b>	Fixing of the door coordinator device according to manufacturer specifications
<b>Size :</b>	3 - 5
<b>Classification :</b>	3 5 3-5 1 1 0
<b>Manufacturing plant :</b>	DO 2.17
<b>Remarks :</b>	With and without mounting plate. The carry bar ECO MK Basis 1 and ECO MK Basis 3 is required if the correct closing sequence of both door-leaves is not achieved.

## Intended use:

On double-leaf fire- and smoke protection doors

Essential property	Sections with requirements in EN 1158:1997/A1:2002/AC:2006	Performance of the product
Self-closing	<p>ECO IS SR</p> <p>5.1.2 Completeness of products</p> <p>5.1.3 Correct closing sequence</p> <p>5.2.1 General</p> <p>5.2.2 Overload behaviour in the closing direction</p> <p>5.2.3 Manipulation</p> <p>5.2.4 Resistance of the waiting position</p> <p>5.2.6 Damage</p> <p>5.2.8 Suitability for fire / smoke protection doors</p>	<p>Passed</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Class 1: Passed</p>
Durability of Self-closing	<p>5.2.5 Durability</p> <p>ECO IS SR</p> <p>5.2.7 Corrosion resistance</p> <p>5.2.7.1</p> <p>5.2.7.2</p> <p>5.2.7.3</p>	<p>Class 8 (500.000 cycles): Passed (Size 3-5)</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p>
Dangerous substances	Annex ZA.3	The manufacturer has not declared any dangerous substances.

Essential property	Sections with requirements in EN 1155:1997/A1:2002/AC:2006	Performance of the product
Ability to release	<p>ECO IS-SR-EF</p> <p>5.1.2 Release from every angle</p> <p>5.1.3 Preventing the release</p> <p>5.1.4 Voltage supply</p> <p>5.1.5 Extern electrical connection</p> <p>5.1.6 Inlet for external cable management</p> <p>5.2.1 General</p> <p>5.2.2 Electrical release</p> <p>5.2.5 Hold open angle</p> <p>5.2.6 Manual disengagement</p> <p>5.2.7 Continuous hold open</p> <p>5.2.8 Overload behaviour</p> <p>5.2.9 Shutter release delay</p> <p>5.2.10 Electrical power</p> <p>5.2.11 Temperature increase</p> <p>5.2.12 Damage</p> <p>5.2.13 Suitability for fire / smoke protection doors</p>	<p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>24 V/ DC; Residual ripple 30 % Passed (Size 3-5)</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>No performance declared</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Passed (Size 3-5)</p> <p>Class 1:Passed</p>
Durability of the ability to release	<p>5.2.4 Durability</p> <p>ECO IS-SR-EF</p> <p>5.2.14 Corrosion resistance</p> <p>5.2.14.1</p> <p>5.2.14.2</p> <p>5.2.14.3</p>	<p>Class 8 (500 000 cycles) Passed (Size 3-5)</p> <p>Class 0: Not required</p> <p>Class 0: Not required</p> <p>Class 0: Not required</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 ITS Multi-Genius</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Not applicable</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 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 ITS Multi-Genius</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</p> <p>Class 3: Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</p> <p>Passed</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.