

Materialprüfungsamt Nordrhein-Westfalen

Prüfen · Überwachen · Zertifizieren

Certificate of constancy of performance 0432-CPR-00099-12

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

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

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

placed on the market under the name or trade mark of

ECO Schulte GmbH & Co.KG

Iserlohner Landstraße 89
58706 Menden, Deutschland

and produced in the manufacturing plant(s)

DO 2.32

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

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

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

constancy of performance of the construction product.

This certificate was first issued on 27.10.2017 and will remain valid until 27.10.2027 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 27.10.2022



By order

Dipl.-Ing. (FH) T. Wilms
Head of Certification Body Department 22.30.2

This Certificate consists of 1 page and 1 annex.

This Certificate replaces the Certificate no. 0432-CPR-00099-12 dated 18.05.2020, 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 TS-51 EN 1-4“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	1 - 4
Classification:	Door-leaf fixing, pull side 4 8 1-4 1 1 3 Frame fixing, push side 3 8 1-4 1 1 3 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 1-4 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 1-4 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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, 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed(class 4) passed(class 3) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) not applicable passed (size 1-4) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 3 (96h) passed class 3 (96h) passed class 3 (96h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-51 G“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	1 - 4
Classification:	Door-leaf fixing, pull side 4 8 1-4 1 1 3 Frame fixing, push side 3 8 1-4 1 1 3 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 1-4 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 1-4 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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, 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed(class 4) passed(class 3) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) passed (size 1-4) not applicable passed (size 1-4) not applicable passed (class 1)
<i>Durability Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 3 (96h) passed class 3 (96h) passed class 3 (96h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-52 EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence
Arm system:	slide channel arm assembly
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Door-leaf fixing, push side in accordance with manufacturer specification Frame fixing, pull side in accordance with manufacturer specification Frame fixing, push side in accordance with manufacturer specification
Size:	2 - 5
Classification:	Door-leaf fixing, pull side 4 8 2-5 1 1 4 Door-leaf fixing, push side 3 8 2-5 1 1 4 Frame fixing, pull side 4 8 2-5 1 1 4 Frame fixing, push side 3 8 2-5 1 1 4 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 2-5 1 1 0 Door-leaf fixing, push side with slide channel assembly RIII 3 8 2-5 1 1 0 Frame fixing, pull side with slide channel assembly RIII 4 8 2-5 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 2-5 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

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Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 <i>general</i> 5.2.3 <i>closing torque</i> 5.2.4 <i>opening torque</i> 5.2.5 <i>efficiency</i> 5.2.6 <i>closing time</i> 5.2.7 <i>opening angle</i> Door-leaf fixing, pull side Door-leaf fixing, push side Frame fixing, pull side Frame fixing, push side 5.2.8 <i>overload test</i> 5.2.9 <i>temperature dependence</i> 5.2.10 <i>leakage</i> 5.2.11 <i>damage</i> 5.2.12 <i>latch regulation</i> 5.2.13 <i>back check</i> 5.2.14 <i>delayed action</i> 5.2.15 <i>adjustable force</i> 5.2.16 <i>play at zero point position</i> 5.2.18 <i>use on fire-/ smoke doors</i>	passed passed (size 2-5) passed (size 2-5) passed (size 2-5) passed passed(class 4) passed(class 3) passed(class 4) passed(class 3) passed passed passed passed not applicable not applicable passed (size 2-5) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 <i>durability with GS-B, GS-H, GS-HF</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance with RIII</i> 5.2.17.1 <i>corrosion resistance</i> 5.2.17.2 <i>corrosion resistance</i> 5.2.17.3 <i>corrosion resistance</i>	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-61 EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	2-5
Classification:	Door-leaf fixing, pull side 4 8 2-5 1 1 4 Frame fixing, push side 3 8 2-5 1 1 4 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 2-5 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 2-5 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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, 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed(class 4) passed(class 3) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) not applicable passed (size 2-5) passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-61 G EN 2-5“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	2 - 5
Classification:	Door-leaf fixing, push side 3 8 2-5 1 1 4 Frame fixing, pull side 4 8 2-5 1 1 4 Door-leaf fixing, push side with slide channel assembly RIII 3 8 2-5 1 1 0 Frame fixing, pull side with slide channel assembly RIII 4 8 2-5 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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 Frame 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed(class 3) passed(class 4) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) passed (size 2-5) not applicable passed (size 2-5) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	According to the manufacturer, there are no dangerous substances.

List of Products

Type:	„ECO TS-61 EN 3-6“
Description:	Hydraulic door closer with controlled closing sequence, adjustable delayed action and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	3 - 6
Classification:	Door-leaf fixing, pull side 4 8 3-6 1 1 4 Frame fixing, push side 3 8 3-6 1 1 4 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 3-6 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 3-6 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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, 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 3-6) passed (size 3-6) passed (size 3-6) passed (size 3-6) passed(class 4) passed(class 3) passed (size 3-6) passed (size 3-6) 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 (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 3 (96h) passed class 3 (96h) passed class 3 (96h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-61 G EN 3-6“
Description:	Hydraulic door closer with controlled closing sequence, adjustable delayed action and adjustable back check
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	3 - 6
Classification:	Door-leaf fixing, pull side 3 8 3-6 1 1 4 Frame fixing, push side 4 8 3-6 1 1 4 Door-leaf fixing, pull side with slide channel assembly RIII 3 8 3-6 1 1 0 Frame fixing, push side with slide channel assembly RIII 4 8 3-6 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

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Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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 Frame 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 3-6) passed (size 3-6) passed (size 3-6) passed passed(class 3) passed(class 4) passed (size 3-6) passed (size 3-6) 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 (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 3 (96h) passed class 3 (96h) passed class 3 (96h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances.

List of Products

Type:	„ECO TS-61 EN 5-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable back check
Arm system:	slide channel arm assembly (short and long)
Installation:	Door-leaf fixing, pull side in accordance with manufacturer specification (standard installation) Frame fixing, push side in accordance with manufacturer specification
Size:	5 - 6
Classification:	Door-leaf fixing, pull side 4 8 5-6 1 1 4 Frame fixing, push side 3 8 5-6 1 1 4 Door-leaf fixing, pull side with slide channel assembly RIII 4 8 5-6 1 1 0 Frame fixing, push side with slide channel assembly RIII 3 8 5-6 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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, 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed(class 4) passed(class 3) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) not applicable passed (size 5-6) not applicable passed (class 1)
<i>Durability Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	According to the manufacturer, there are no dangerous substances.

List of Products

Type:	„ECO TS-61 G EN 5-6“
Description:	Hydraulic door closer with controlled closing sequence and adjustable opening dampening
Arm system:	slide channel arm assembly (long)
Installation:	Door-leaf fixing, push side in accordance with manufacturer specification (standard installation) Frame fixing, pull side in accordance with manufacturer specification
Size:	5 - 6
Classification:	Door-leaf fixing, push side 3 8 5-6 1 1 4 Frame fixing, pull side 4 8 5-6 1 1 4 Door-leaf fixing, push side with slide channel assembly RIII 3 8 5-6 1 1 0 Frame fixing, pull side with slide channel assembly RIII 4 8 5-6 1 1 0
Manufacturing Plant:	DO 2.32
Remarks:	Optionally with and without mounting plate, Optionally with slide channel assembly GS-G, GS-H, GS-HF or RIII, Optionally with arm 6*336mm, 4*336mm or 4*358mm

Intended Use:

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

<i>Essential properties</i>	<i>Clauses with requirements in EN 1154:1996/A1:2002/AC:2006</i>	<i>Performance of the product</i>
<i>Self-closing</i>	5.2.1 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 Frame 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 play at zero point position 5.2.18 use on fire-/ smoke doors	passed passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed(class 3) passed(class 4) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) passed (size 5-6) not applicable passed (size 5-6) not applicable passed (class 1)
<i>Durability</i> <i>Self-closing</i>	5.2.2 durability with GS-B, GS-H, GS-HF 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance with RIII 5.2.17.1 corrosion resistance 5.2.17.2 corrosion resistance 5.2.17.3 corrosion resistance	passed (class 8) passed class 4 (240h) passed class 4 (240h) passed class 4 (240h) class 0: no requirements class 0: no requirements class 0: no requirements
<i>Dangerous substances</i>	Annex ZA.3	The manufacturer has not declared any dangerous substances