HARDWARE PERFORMANCE SHEET

Name of sponsor:	Gilgen Door Systems AG		
Product name:	Hardware Performance Sheet – FD 10		
File no.:	PHO10093A		
Date:	23-01-2020		
Pages:	8	Encl.:	0
Ref:	MKL / CAN		

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Client information

Client: Gilgen Door Systems AG

Address: Freiburgstrasse 34

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General principle of the hardware performance sheet

This document is composed in accordance with the European Standard:

- EN 16035:2012

The objective of the hardware performance sheet is to compose a reliable performance verification system for building hardware, needed to permit the door and/or openable window manufacturers the use of alternative hardware components.

A hardware performance sheet together with test evidence can be used as documentation for an Extended Application report, prior to CE-marking.

Test reports

This Hardware Performance Sheet is based on the following test evidence:

Name of Laboratory	**Name of client**	**File No.**	**Standard**	**Issue date**
Danish Institute of Fire and Security Technology	Gilgen Door Systems AG	PGA11590C	EN 1634-1: 2014 + A1: 2018	10-01-2020
Danish Institute of Fire and Security Technology	Gilgen Door Systems AG	PGA11590D	EN 1634-1: 2014 + A1: 2018	10-01-2020

Determination of data for the interchangeability

Building hardware identification

Position	Declaration	Required product information	Note/additional information[a]
1	Manufacturer	Gilgen Door Systems AG, Freiburgstrasse 34, 3150 Schwarzenburg	See 5.2.1
2	Manufacturer's product reference as shown in fire test evidence	FD 10	See 5.2.2

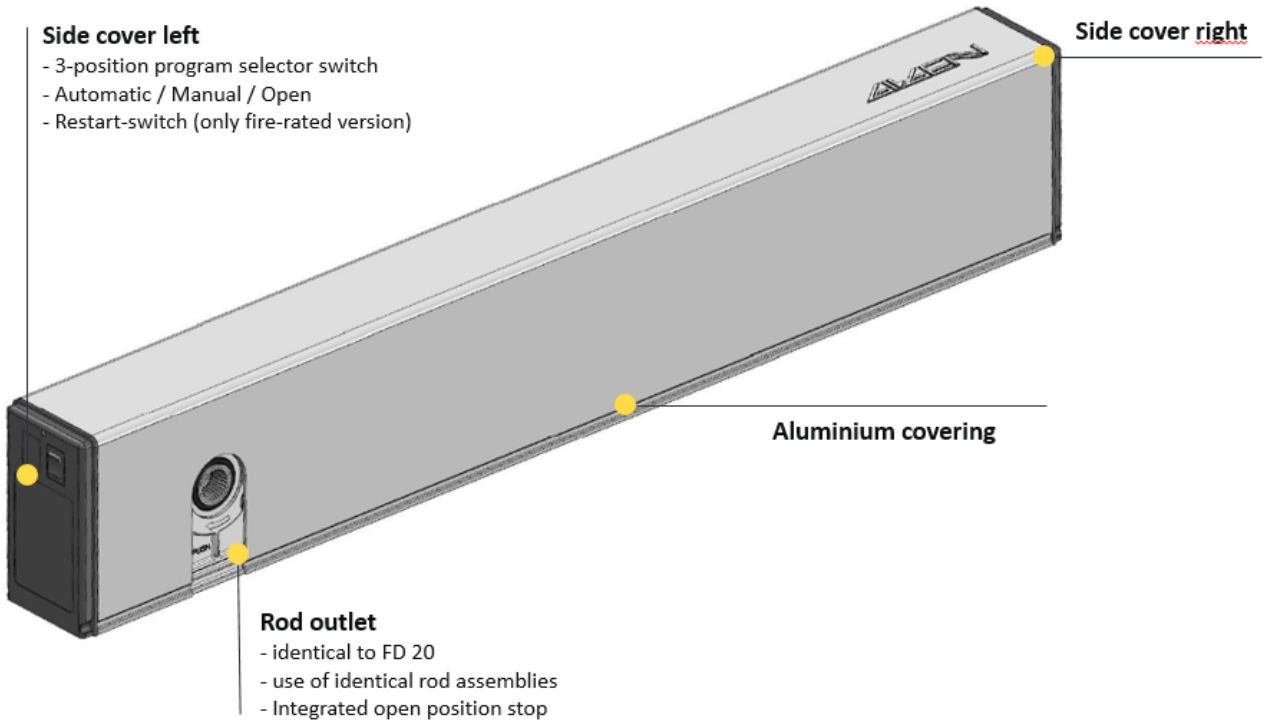
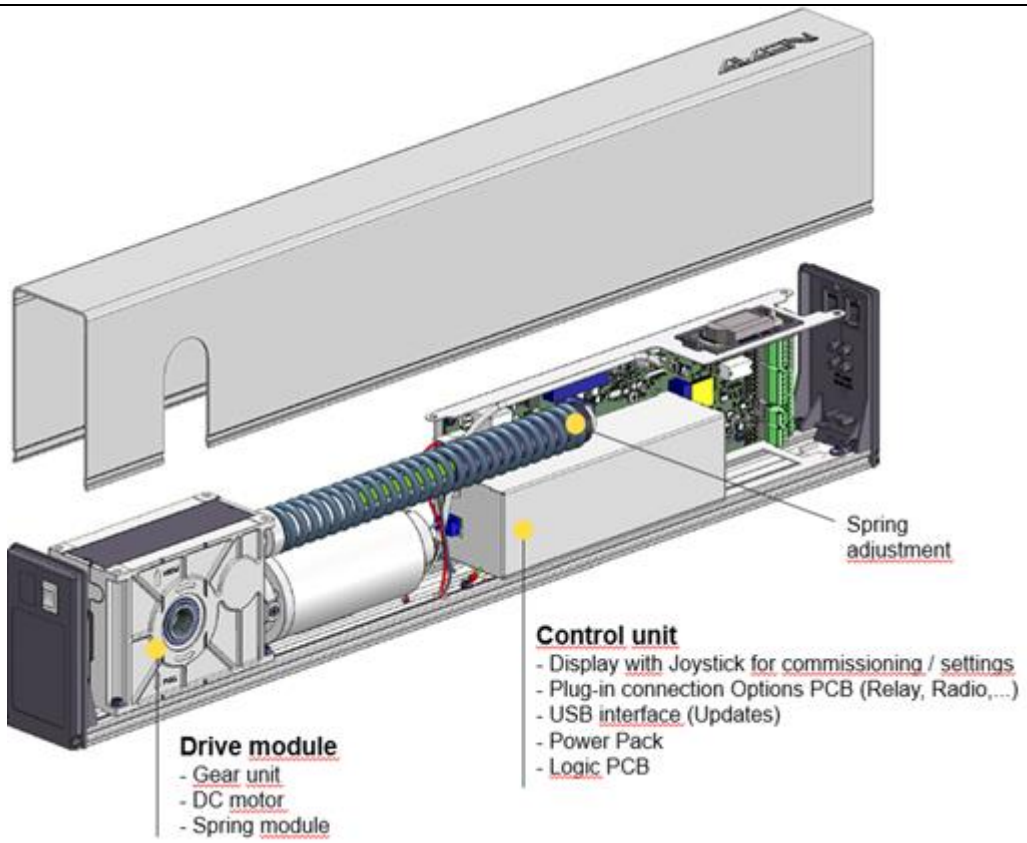


Figure 1



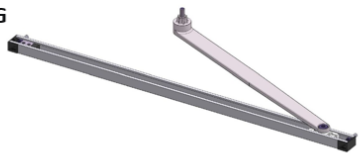
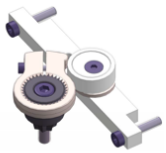
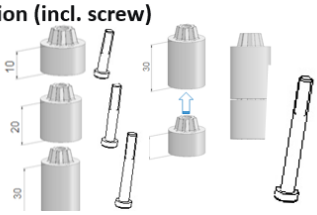
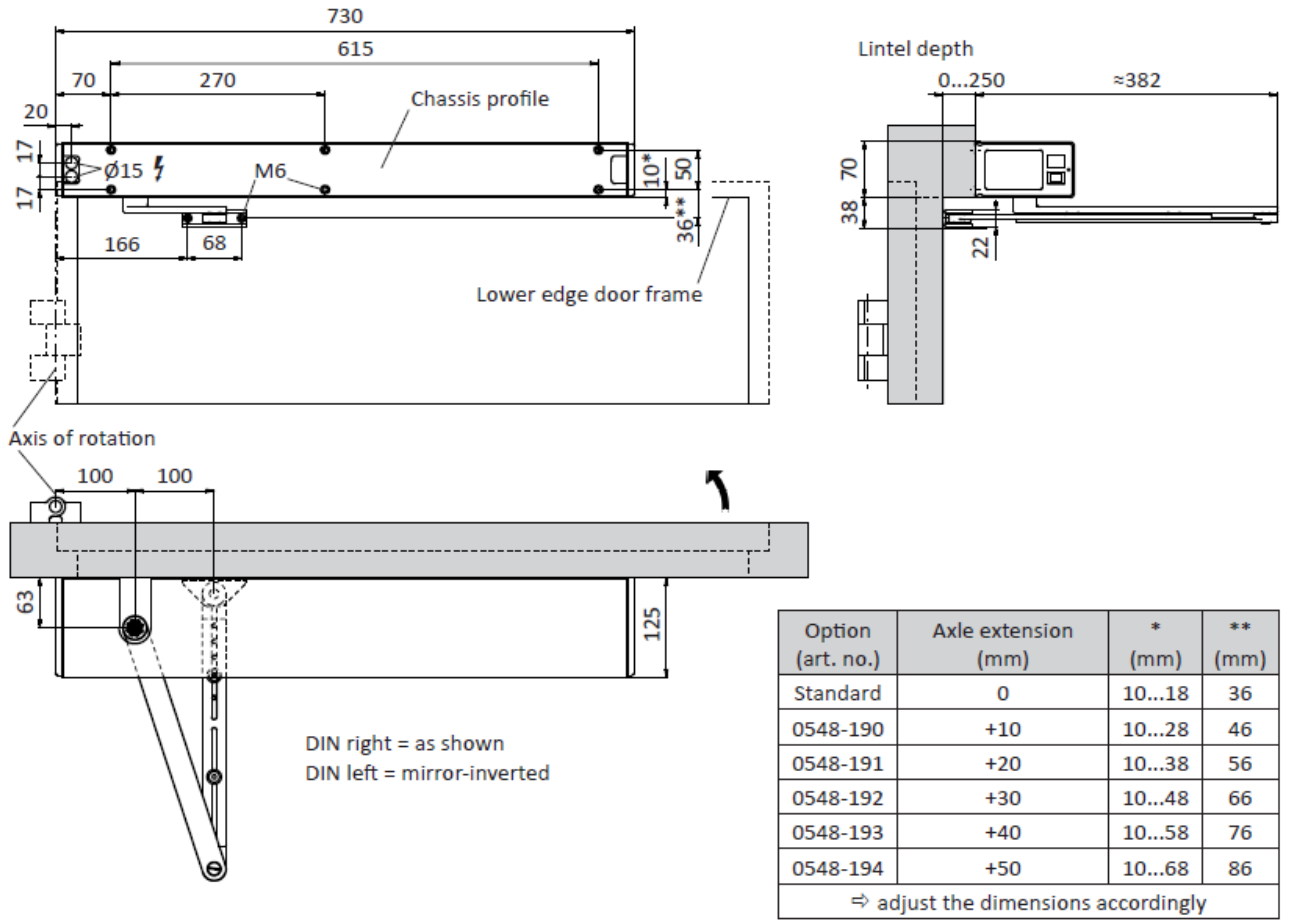
Sliding rods RG		• Integrated open position stop piece in the sliding rail • Incl. fastening screws • 45-0548-164
Standard rods RS		• With fastening screws • 45-0548-163
VE Open position stop piece		• Matching to standard rods RS • In case an external open position stop piece cannot be installed • 45-0548-175
Axle extension (incl. screw)		• VE Axle extension +10 (45-0548-190) • VE Axle extension +20 (45-0548-191) • VE Axle extension +30 (45-0548-192) • VE Axle extension +40 (45-0548-193) • VE Axle extension +50 (45-0548-194)

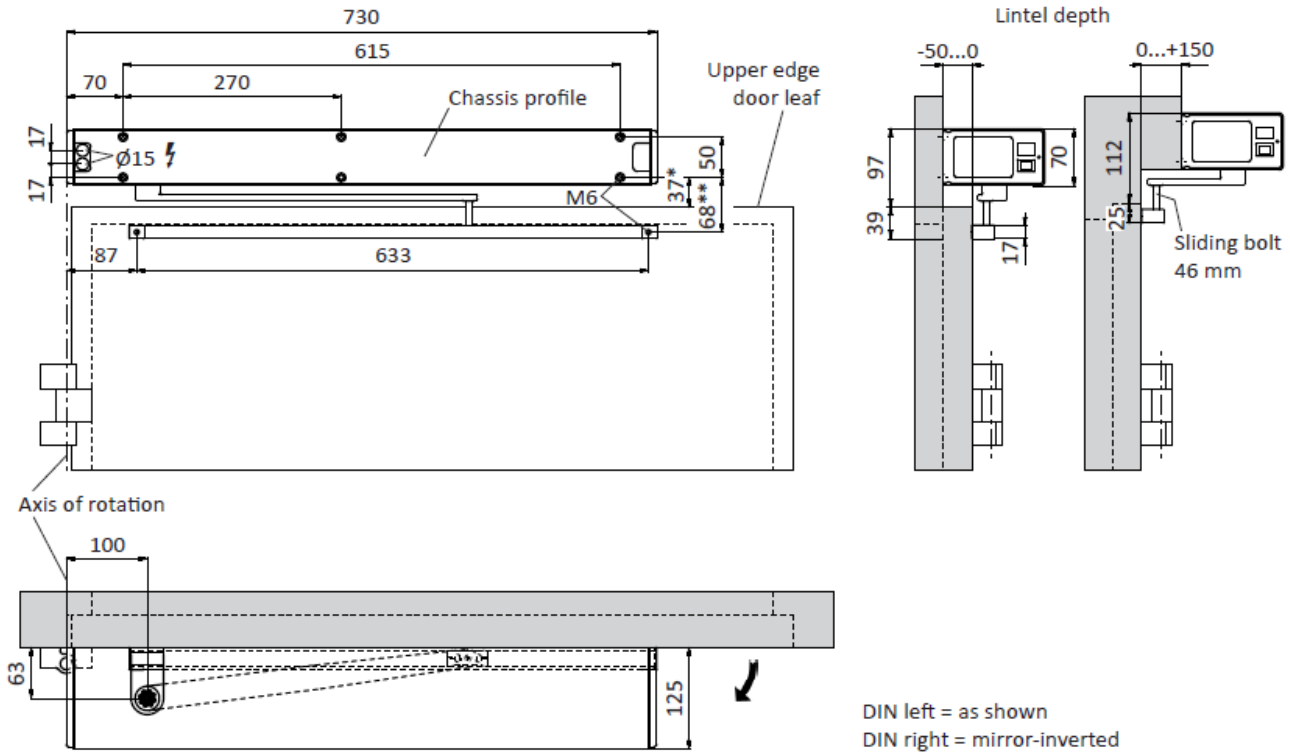
Figure 2

3	Type of building hardware	Automatic swing door operator		See 5.2.3
4	Relevant EN standard	TÜV approved and complies with the pertinent standards (e.g. EN 16005, DIN 18650)		See 5.2.4
5	Classification (in accordance with relevant hardware product standard)	Classification : Grade 1	Characteristic: Suitable for use on fire/smoke door assemblies	See 5.2.5
6	Main dimensions	Height: 70 mm, width: 125 mm, length: 730 mm See Figure 3 below:		See 5.2.6



Option (art. no.)	Axle extension (mm)	* (mm)	** (mm)
Standard	0	10...18	36
0548-190	+10	10...28	46
0548-191	+20	10...38	56
0548-192	+30	10...48	66
0548-193	+40	10...58	76
0548-194	+50	10...68	86
⇨ adjust the dimensions accordingly			

Figure 3



Option (art. no.)	Axle extension (mm)	* Sliding bolt 46 mm	** Sliding bolt 46 mm	* Sliding bolt 18 mm	** Sliding bolt 18 mm
Standard	0	31...59	68	31	40
0548-190	+10	41...69	78	41	50
0548-191	+20	51...79	88	51	60
0548-192	+30	61...89	98	61	70
0548-193	+40	71...99	108	71	80
0548-194	+50	81...109	118	81	90
⇨ adjust the dimensions accordingly					

Figure 4

7	Remarks	Door leaf or lintel installation Pushing or pulling function Controlled, spring actuated closure with motor assistance	See 5.2.7

[a] References to claused in the HPS standard EN 16035:2013

Test evidence used

This hardware performance sheet is only valid for doorset and/or openable windows as described in the table below.

1	Material of doorset and/or openable window	- Steel doorset and/or openable window
		X Timber doorset and/or openable window
		- Aluminium doorset and/or openable window
		- Other
2	Mounting of building hardware	**X** Surface mounted, exposed to fire
		X Surface mounted, not exposed to fire
		- Mortice mounted, fire on both side

3	Type of doorset and/or openable window	**X** Hinged
		- Pivoted
		- Sliding
		X Single leaf doorset
		- Double leaf doorset
		- Primary (active) leaf
		- Secondary (passive) leaf
		- Other type

Performance level(s)

	Performance	Fire resisting and/or smoke control doorset and/or openable window test evidence	Building hardware test evidence[a]	Smoke control doorset and/or openable window test evidence	Durability of self-closing
1	Test method:	**X** EN 1634-1	- EN 1634-2[b]	- EN 1634-3	- EN 1191 - EN 12605
2	Test report no.:	PGA11590A dated 10-01-2020 PGA11590B dated 10-01-2020			
3	Test report issued by:	Danish Institute of Fire and Security Technology			
4	Classification	EN 13501-2 E: 30 min.		EN 13501-2 - S_a - S_m	EN 14600 - C0 (zero) - C1 (500) - C2 (10.000) - C3 (50.000) - C4 (100.000) - C5 (200.000)
5a	Width of primary leaf:	1025 mm			
5b	Width of secondary leaf:	-			
6	Door leaf height:	2145 mm			
7	Door thickness:	80 mm			
8a	Mass of primary leaf:	76.8 kg with ref. to PGA11590A 88.5 kg with ref. to PGA11590B			
8b	Mass of secondary leaf:	-			

9	Restrictions[c]:	-
10	Installation instructions[d]:	See Figure 1, 2, 3 and 4
11	Certification body for relevant hardware:	DBI - The Danish Institute of Fire and Security Technology
12	Prepared by:	DBI - The Danish Institute of Fire and Security Technology
13	Date:	20-01-2020

[a] The dimensions shown in this column relate to the associated construction relevant to the particular test.
[b] Results from a test by EN 1634-2 show information about the hardware. The test specimen of EN 1634-2 does not represent a doorset as defined in EN 16034.
[c] E.g. limitations of application.
[d] E.g. reference to the building hardware manufacturer's installation instructions.

Remarks

This report has only been printed in a pdf-version. DBI has not issued a hard copy version.

All values mentioned in this report are nominal values, production tolerances are not considered.

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Enclosures: None