

HARDWARE PERFORMANCE SHEET

Name of sponsor: Abloy Oy
Product name: EL 495, EL 480, EL 482, LE314, LE310, LE314X and LE310X
File no.: PHO10101A **Revision no.:** 0
Date: 04-12-2020
Pages: 6 **Encl.:** 8
Ref: MNP / TDJ

Client information

Sponsor: Abloy Oy

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80101 Joensuu
Finland

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	Test item
Danish Institute of Fire and Security Technology	Abloy Oy	PGA11640A	EN 1634-1: 2014 + A1: 2018	24-04-2020	Double leaf door opening outwards
Danish Institute of Fire and Security Technology	Abloy Oy	PGA11640B	EN 1634-1: 2014 + A1: 2018	24-04-2020	Double leaf door opening outwards

Determination of data for the interchangeability

Building hardware identification

Position	Declaration	Required product information		Note/additional information ^a
1	Manufacturer	Abloy Oy		See 5.2.1
2	Manufacturer's product reference as shown in fire test evidence	Tested product: Abloy EL 495 Product family: Locks Abloy EL 495, EL 480*, EL 482*, LE314#, LE310#, LE314X# and LE310X#		See 5.2.2
3	Type of building hardware	Electromechanically operated lock		See 5.2.3
4	Relevant EN standard	EN 14846:2008		See 5.2.4
5	Classification (in accordance with relevant hardware product standard)	Classification : F	Characteristics: Suitability for use on fire/Smoke doors	See 5.2.5
6	Main dimensions	Dimensions (height x depth x width) Lock box: 211.6 x 50 mm x 21.5 mm Front plate: 278.05 x 3 x 25 mm Latch bolt length: 14 mm Attached drawing – see enclosures		See 5.2.6
7	Remarks	<p>The electric operable lock Abloy EL 495 was tested without any intumescent seal.</p> <p>Abloy EL 495 contains more combustible material than the rest of the above mentioned locks.</p> <p>*EL 480 and EL 482 is found in two versions according to their back-set (29 mm / 35 mm).EL 480 and EL 482 are of smaller size. See below actual dimensions: Lock box with back-set 29 mm: 163.5 x 44 mm x 21.5 mm Lock box with back-set 35 mm: 163.5 x 50 mm x 21.5 mm Front plate: 225 x 3 x 25mm Latch bolt length: 14 mm</p> <p>#LE 314 and LE 310 are of smaller size. See below actual dimensions: Lock box: 163 x 47.5 mm x 21 mm Front plate: 225 x 4 x 25mm Latch bolt length: 14 mm</p> <p>LE 310X and LE 314X are identical to LE 310 and LE314 with the only addition of microswitch cable.</p> <p>Declaration of product family from the producer –see enclosures</p>		See 5.2.7

^a References to clauses 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
		- Timber doorset and/or openable window
		- Aluminium doorset and/or openable window
		X Metal framed glazed doorset with steel frames
2	Mounting of building hardware	- Surface mounted, exposed to fire
		- Surface mounted, not exposed to fire
		X Mortice mounted ^a , fire on both sides
3	Type of doorset and/or openable window	X Hinged
		- Pivoted
		- Sliding
		- Single leaf doorset
		X Double leaf doorset
		X 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.:	PGA11640A PGA11640B			
3	Test report issued by:	Danish Institute of Fire and Security Technology			
4	Classification	EN 13501-2		EN 13501-2	EN 14600
		E: 132 min. EW: 30 min.		- S _a - S _m	- C0 (zero) - C1 (500) - C2 (10.000) - C3 (50.000) - C4 (100.000) - C5 (200.000)
5a	Width of primary leaf:	1023 mm	-	-	-
5b	Width of secondary leaf:	1023 mm	-	-	-
6	Door leaf height:	2210 mm	-	-	-
7	Door thickness:	50 mm	-	-	-
8a	Mass of primary leaf:	-	-	-	-
8b	Mass of secondary leaf:	-	-	-	-

9	Restrictions:	-
10	Installation instructions:	-
11	Certification body for relevant hardware:	Eurofins Expert Services Oy
12	Prepared by:	DBI - The Danish Institute of Fire and Security Technology
13	Date:	04-12-2020

^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.

Danish Institute of Fire and Security Technology



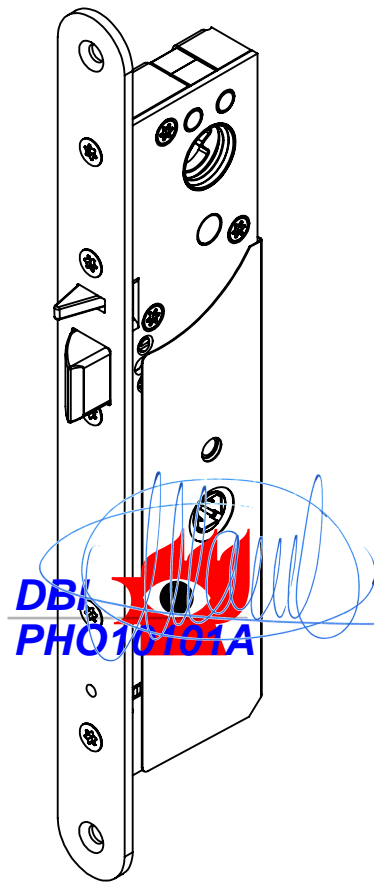
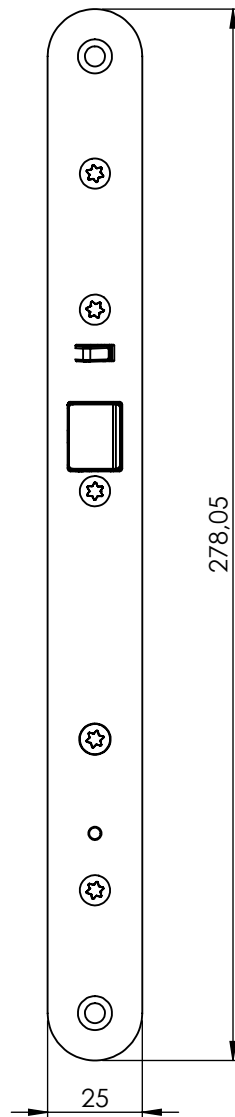
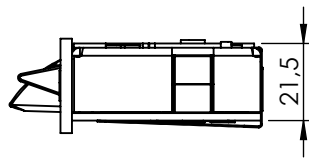
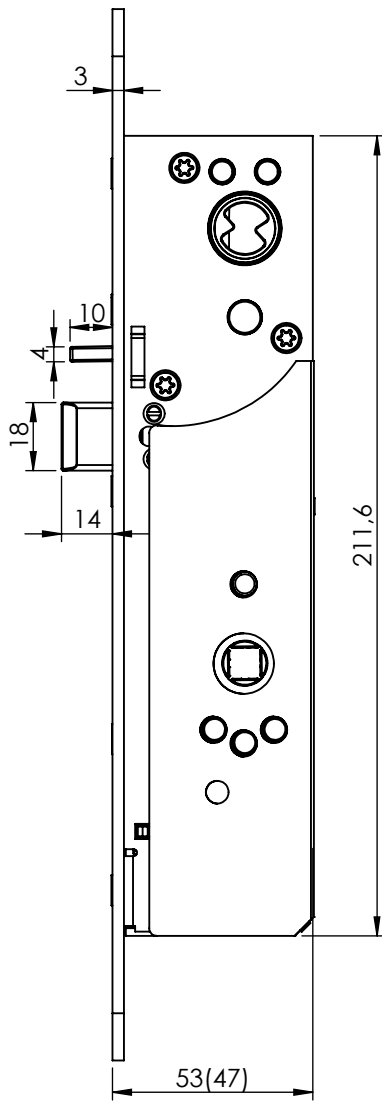
Manuel de Nicolás Peiteado
M.Sc. (Eng.)



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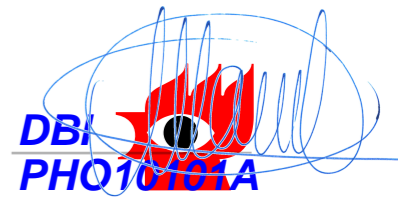
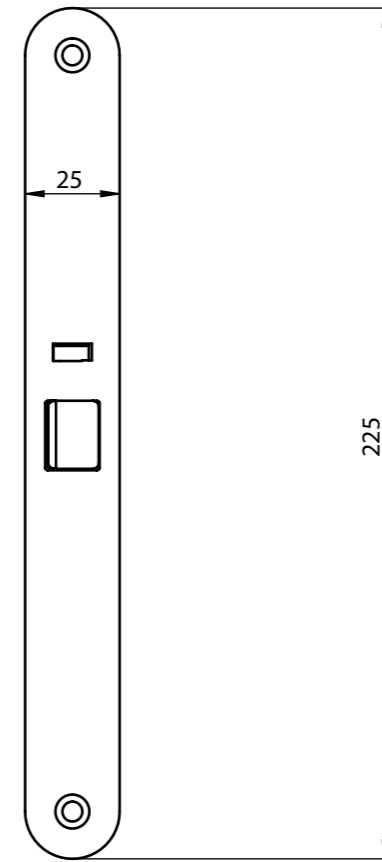
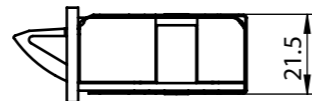
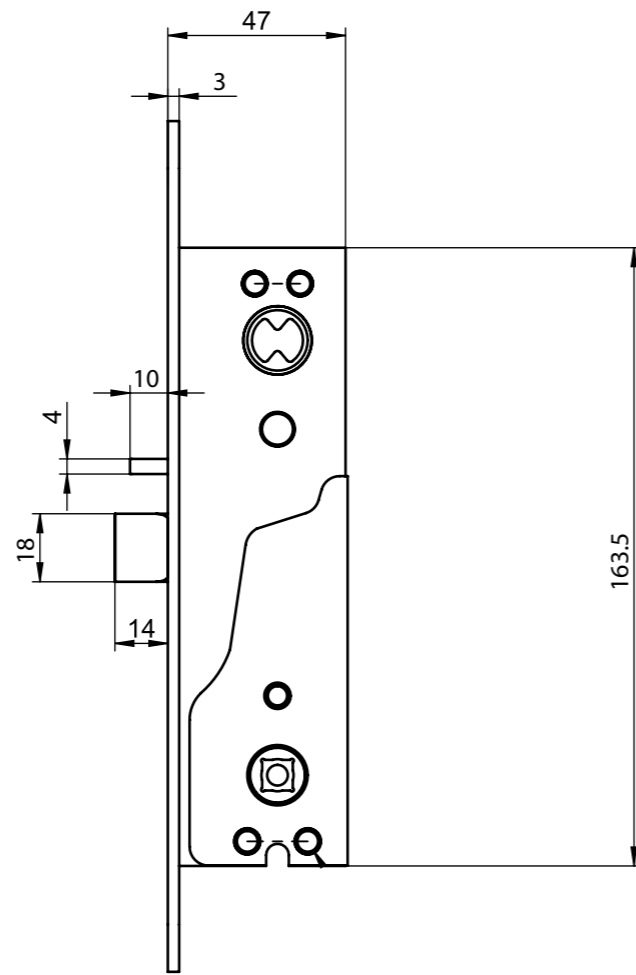
If not mentioned otherwise, dimensions do not include coating


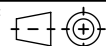
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ASSA ABLOY			EL495FU			Alternate ID	
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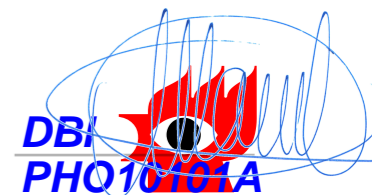
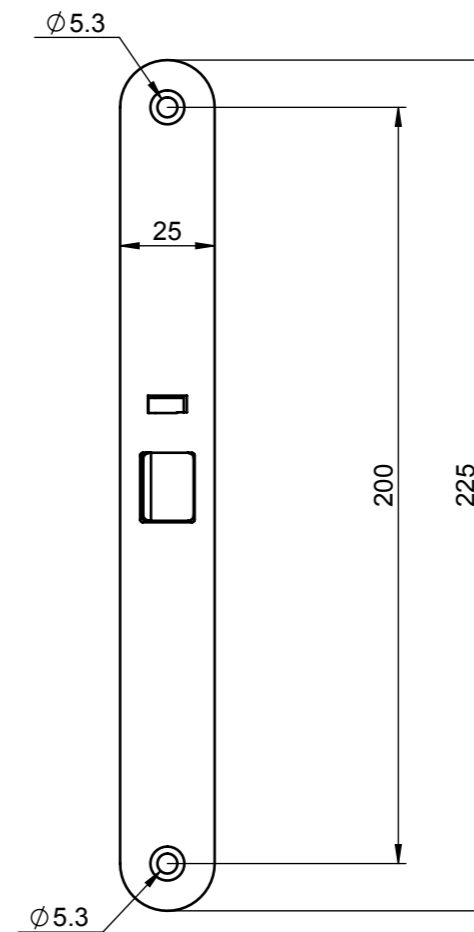
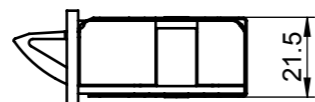
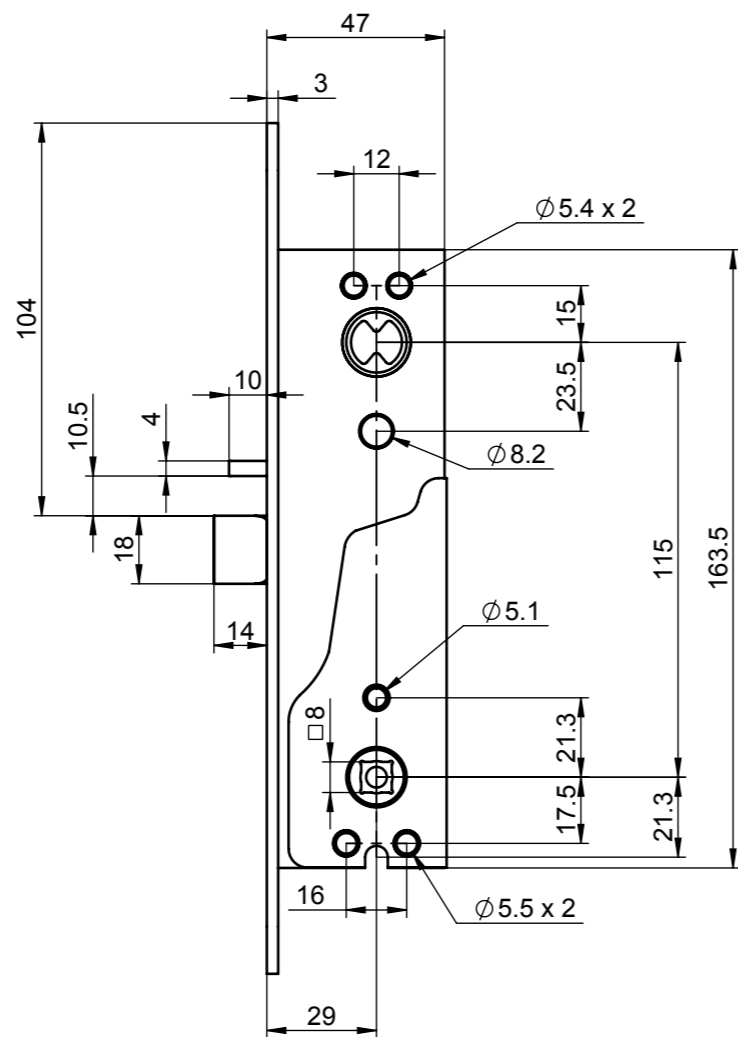
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
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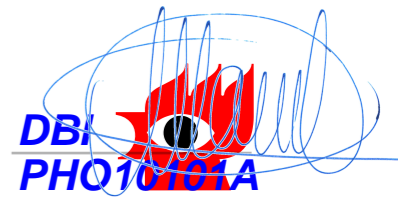
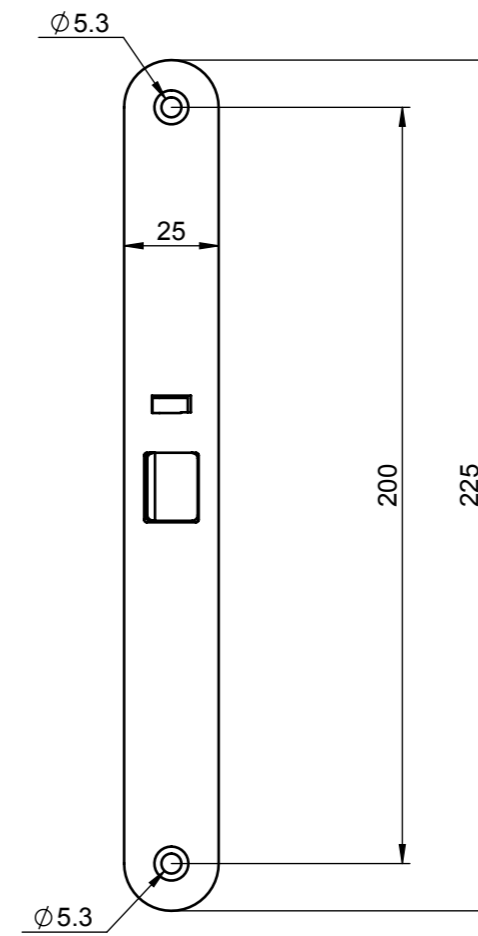
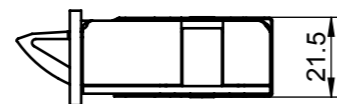
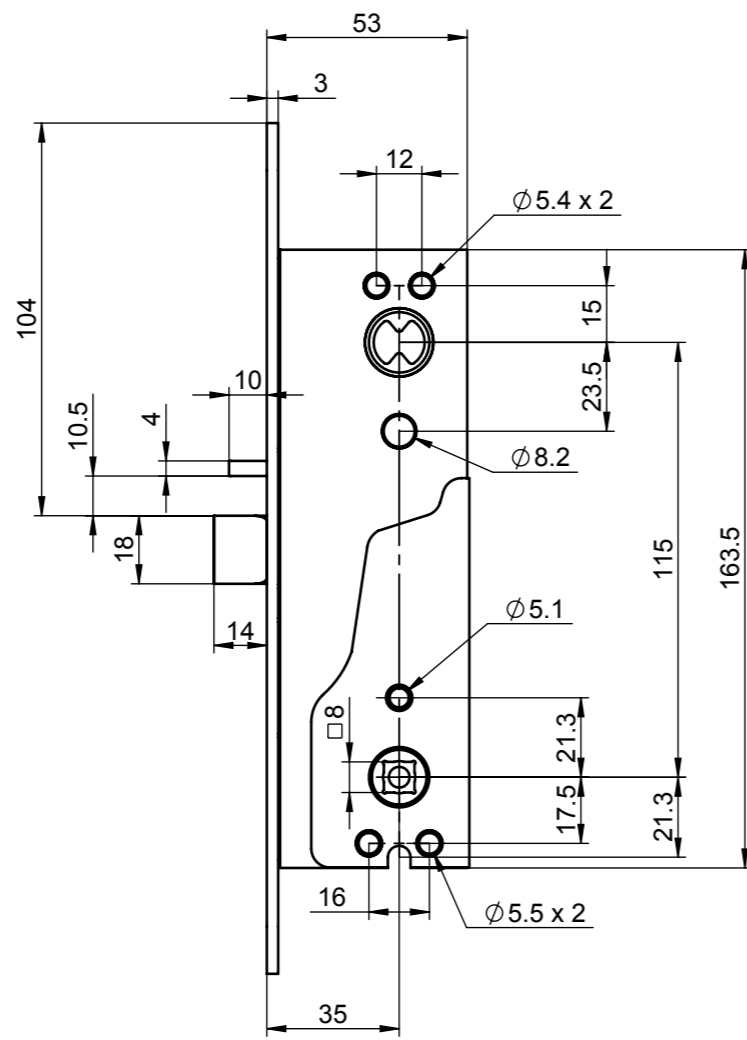
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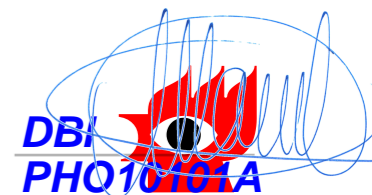
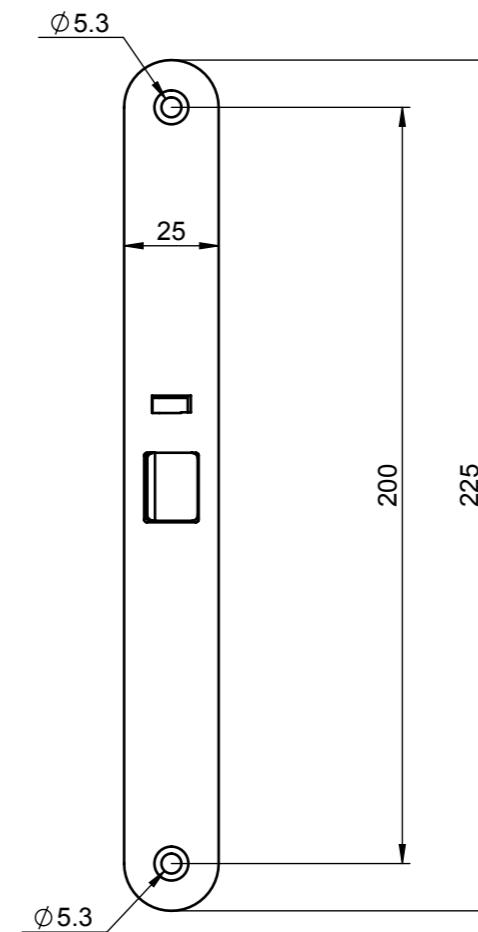
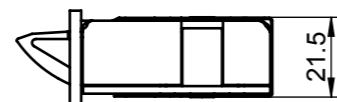
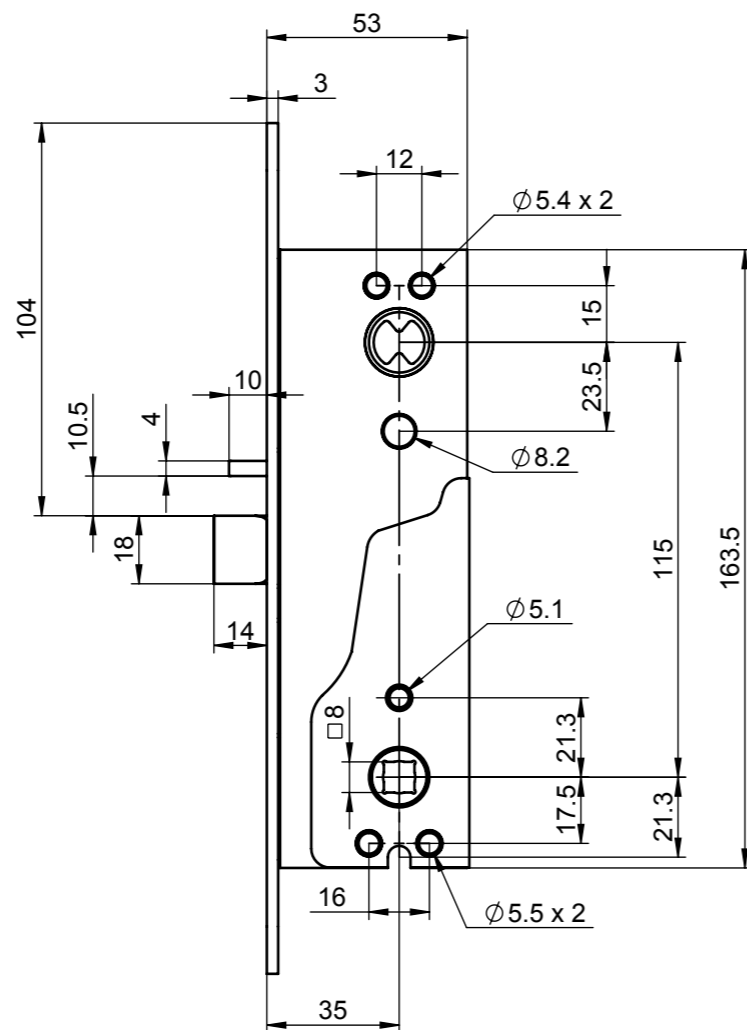



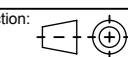
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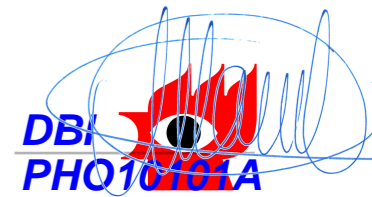
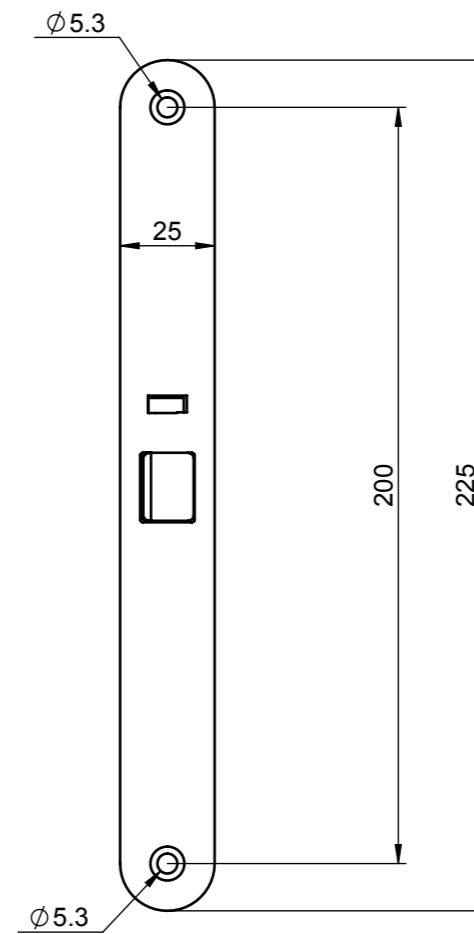
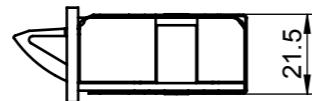
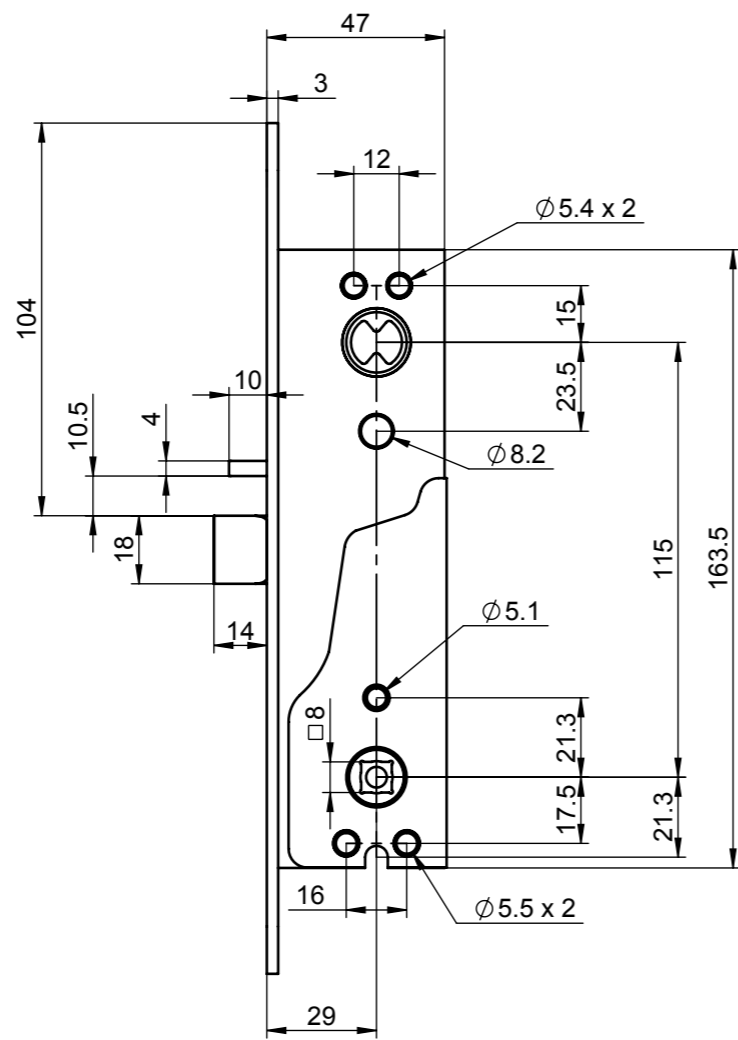
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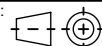
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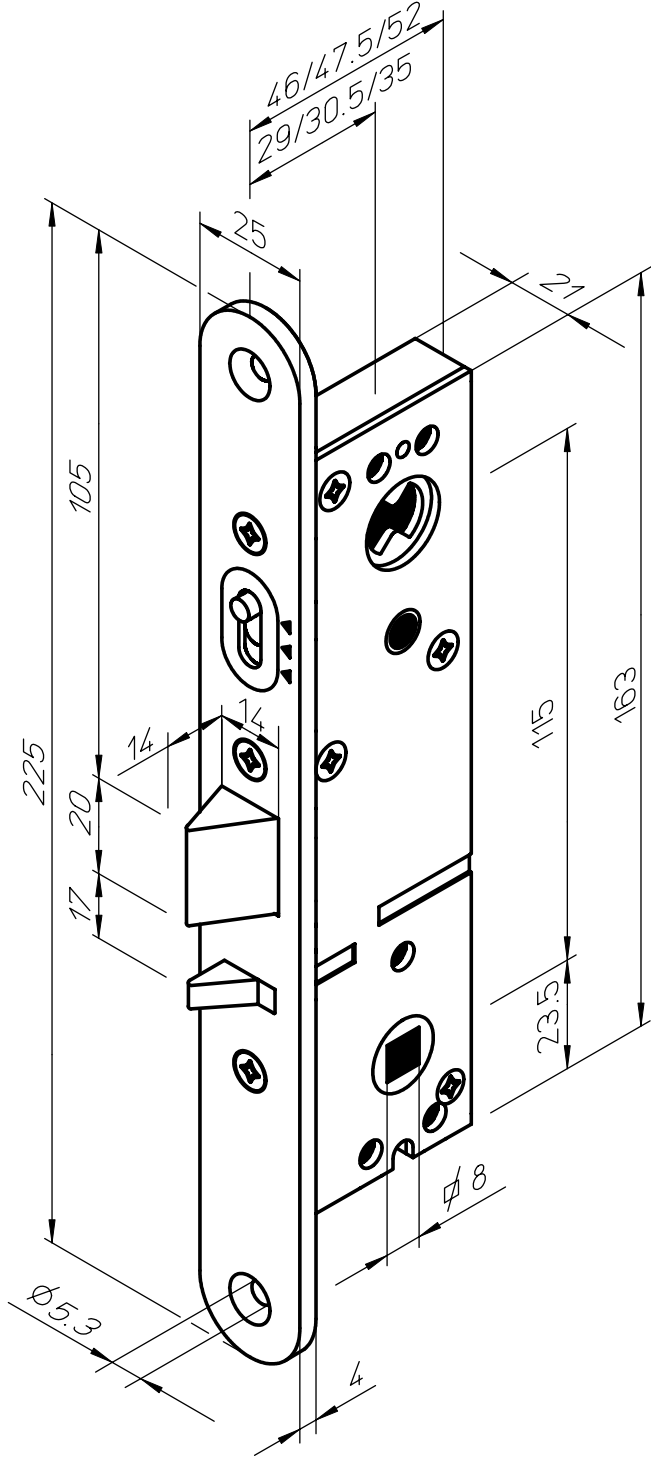


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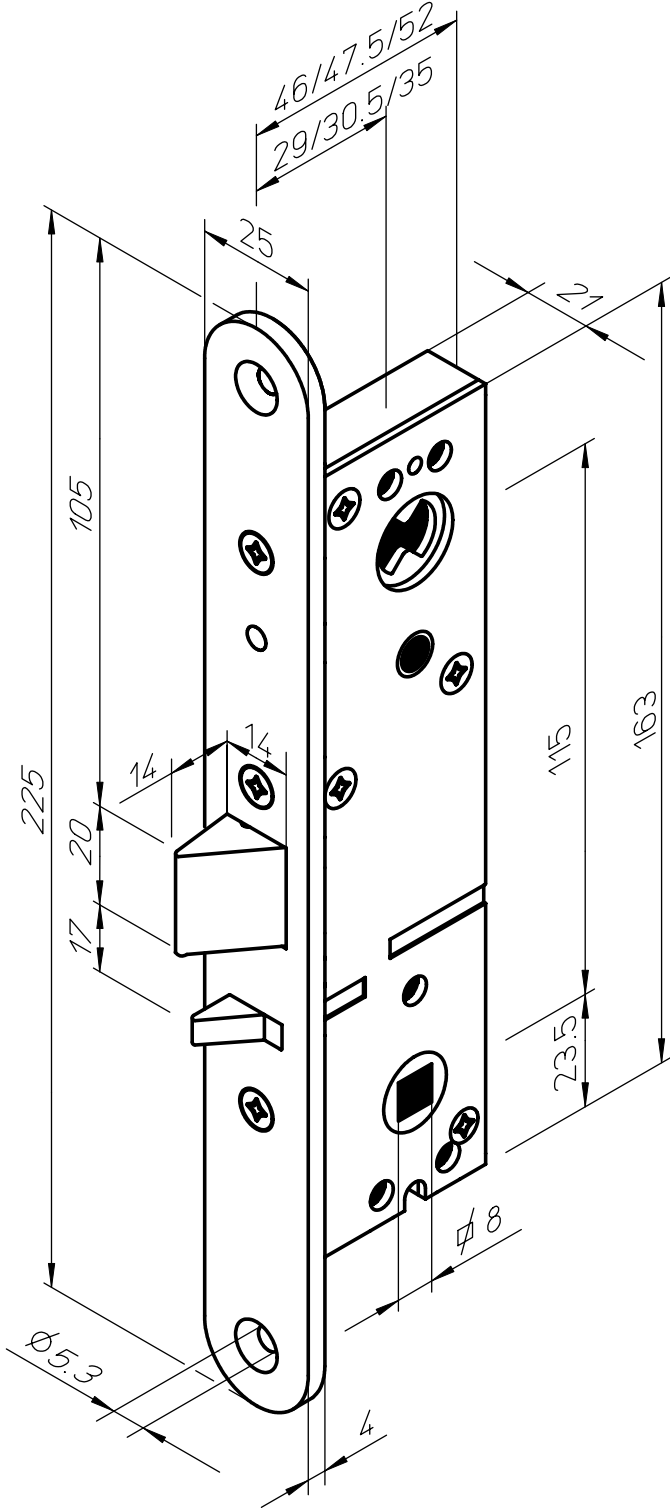
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