Fire Rated Double Door

Solution family: Interior door solutions
Solution group: Double-Steel-FR-Self Closing

Description

ASSA ABLOY Spain solution for two-leaf RF Doors, for the compartmentalization of sections and premises.

Activated by handles in both leaves. Application according to EN 179. Locks, counterlocks and automatic rods. Door closer with locking selector.

Typical application markets

For all kinds of buildings, particularly Hospitals, Hotels, Offices, Institutional Buildings, Stations, Airports, Leisure Spots and Residential.

Hardware set

- Firebreak lock, Standard: EN 12209, EN 1125
- Firebreak counterlock with rods and retainer, Standard: EN 1125
- Patented security cylinder, TESA's TX80, Standard: EN 1303
- Handle with keyhole for RF Doors, TESA's SENA series, AISI 316 quality, Standard: EN1709 (Use Category: 3)
- ASSA ABLOY Cam-Motion® DC 500 door closer and guide, Standard: EN1154, DDA/CEN PR 15894, EN 15804 (EPD-ASA-20130275-IBC1-EN)

Exterior

Interior

SMARTair™ Wall Reader
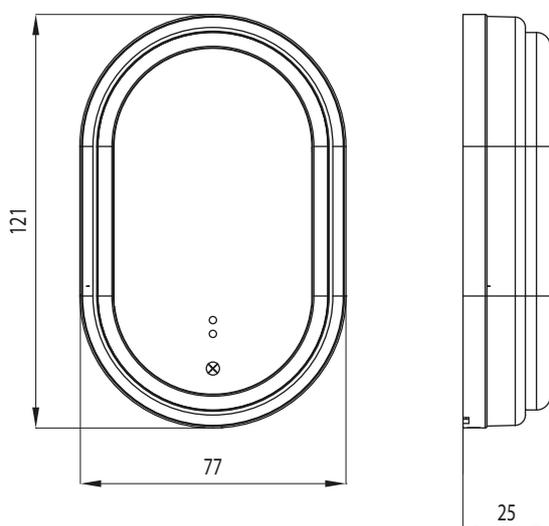## *Pro Wireless Online*

TESA

ASSA ABLOY

ⅵ SMARTair™
Your Access. Your Control.

ASSA ABLOY, the global leader
in door opening solutions

SMARTair™ wired wall readers with RFID reader are suitable for automated doors, turnstiles, barriers, elevators or any access in which the locking or blocking element is an automatism. The wall reader incorporates a relay and a control unit which manages both the reader and the relay.

Technical data - SMARTair™ Wall reader

	Traffic volume	High
	Exterior usage	IP55 (Wall reader) Up to 85% humidity -20°C to + 80°C (Wall reader) -10ºC to + 80ºC (Relay board)
	Hardware compatibility and installation	To be combined with electromechanical devices to unlock the door (e.g. electric strike plates, electromagnetic locks or escape routes) Cabling needed
	Power supply	Cabled 12-24 VAC – VDC: powered through relay board Max power consumption (reader + relay board): 500mA @ 12V / 250mA @ 24V
	Multi-authentication	No
	Status information	Door position (door sensor not included) Request to exit Tamper
	Certifications	CE (EMC, R&TTE) ROHS, REACH, WEE
	RFID technologies	HID iCLASS® MIFARE Classic and Ultralight SKIDATA DESFire
	Upgradability	SMARTair™ Wall readers* can be upgradeable from Standalone > Offline / Update On Card > Wireless Online by: · Adding RF module · Firmware upgrade

121

77

25

* R4 circuit required.

Electronic Technical Characteristics
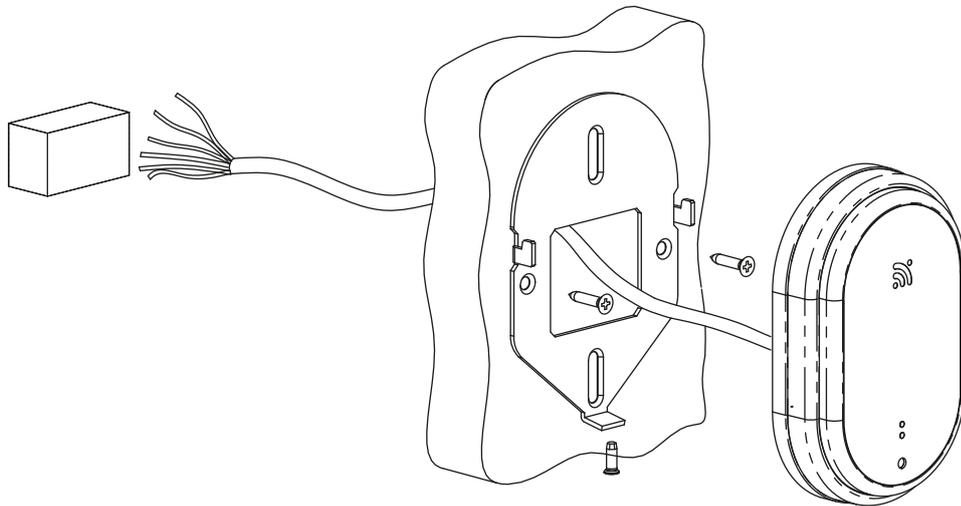
Reader Module

· Reading distance: 2-4 cm read/write distance with standard RFID credentials.

· Emergency opening: Jack connection is available to connect the portable programmer and emergency kit.

· RFID reader with LED (green/red) and sound buzzer for different warning signals: access authorized or denied, etc.

Control Unit

· Upgradeable firmware.

· Non-volatile memory. The wall reader can be programmed to operate in 2 modes:

    · Normal mode: 1500 users and 600 events.

    · High traffic door: unlimited number of users filtered into 48 groups (permissions). Stores 1000 events.

· Real-time clock and calendar:

    · 14 time zones with 5 time periods (week days and holidays selectable).

    · State tables: configure 20 changes of operating modes in a door per day (switch door from lock to unlock).

    · Yearly calendar: is updated every month automatically by the wireless system.

    · Automatic DST: Daylight Saving Time change. Updated with calendar.

    · Maintains clock/calendar for 96h without power supply (internal batttery shall be previously charged within 1 day).

· Operating modes:

    · Standard: Default operating mode. No access until valid credential presented, then allows to open the door for 4-10 seconds (configurable).

    · Standard ADA: Standard with double opening time.

    · Passage mode: door is always in open mode (configured by time zones or by authorized user after double badging).

    · Double user: Two valid credentials needed to open de door.

    · First user: door in standard mode until first valid user enters, then will remain in passage mode (until closed by authorized user or automatically by time zone, state tables).

RF Module

· 868MHz or 915MHz selectable in field.

· 30 configurable channels:

    · From 868,00 to 875,25 in steps of 0,25Mhz each channel.

    · From 915,00 to 922,25 in steps of 0,25Mhz each channel.

· Auto-link with communication Hubs (easy setup).

· Upgradeable firmware.
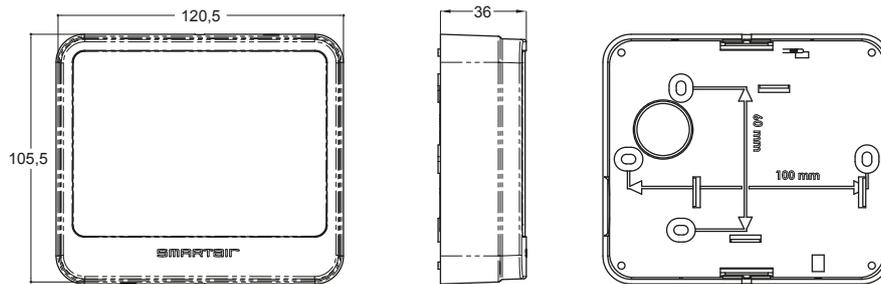
Relay Board

The relay board is the ideal complement for wall readers when it is necessary to manage an electrically controlled locking element from a single point, deciding for each user which elements must be activated.

Encrypted communication between reader & relay board, no manipulation on the wiring between these devices can open the door.

· Box & mounting:

    · Relay board is supplied in a box that allows surface mounting.

    · The electric board can be mounted in DIN rails (DIN rail enclosure not included). Tamper switch must be overridden or added separately.

· The two relays SMARTair™ board is a new generation product with following connections:

    · Connector for reader.

    · Power supply connector.

    · Door position (sensor not included): Intrusion or door left open will be reported.

    · Push Button: Request to exit.

    · Tamper alarm against relay board manipulation: tamper included in the board.

    · 2 output relays:

        · Relay 1 commands the electromechanical lock (not included).

        · Relay 2 can be used for other purposes. This relay functionality is configured by software or the dip switch on the board.

    · Configuration Dip switch. It can be configured from the Management Software of by this Dip.

· Other type of relay boards available for wall readers, can be acquired as spare part:

    · Simple 1 relay board with reduced size.

    · 8 output relay board: typically used in elevators. 5 of this elevator boards can be connected in serial (40 output relays).

SMARTair™ Relay Board.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

ASSA ABLOY

www.assaabloy.com

TESA

ASSA ABLOY

TESA is the leading Spanish manufacturer and supplier of locking solutions and access control technology for the residential and institutional markets. TESA has a wide and complete range of products including panic exit devices, cylinders, security locks, knobs and handles, door closers, access control solutions with electronic cylinders, electromechanical and electromagnetic solutions and armoured doors. TESA exports to markets such as Latin America, Middle East, Europe, Asia Pacific and the North African countries.

≈ SMARTair™
Your Access. Your Control.

SMARTair™ is a powerful access control system that offers an intelligent, yet simple, step up from keys. SMARTair™ is the cost-effective alternative to a full high-security system. SMARTair™ contactless, smart card technology is easily incorporated into existing systems, with multiple management solutions. No bells, whistles, or wires, just sleek, reliable security.

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tesalocks@tesa.es
www.tesa.es/smartair

Touch type panic exit devices, TOP series

TOP series

The purpose of this new product range is to complete TESA's wide range of exit panic devices and to be able to meet all the increasingly high demands in the market with a product of high technical advantages and a design in keeping with the latest architectural trends. This new range of TESA's exit panic devices presents the following features:

» Easy reversibility.
» Compatible with firebreak doors.
» Very easy to install:
   - Starting with three STD sizes (for doors of 800 mm, 1000 mm and 1200 mm) the bar can be cut to fit in with the width of the door.
   - 35 mm adjusting of the vertical rod devices.
» Clutched external operating:
   - SENA handle: with an European-profile. Door with + 25 mm.
   - Institutional handle: with an European-profile cylinder

» Latches present a security device.
» Low projection.
» It can incorporate a microswitch.
» Optional passage function (dogging device)
» It can incorporate a motorized latch
» It can be installed on single and double leaf doors
» STD finish:
   - Fixed bar and vertical rod device cover: anodized aluminium.
   - Central covers and high/low auxiliary locks: SILVER RAL9006.
   - Active bar: SILVER RAL9006
   - Also available in other finishes: lime green, stainless,....
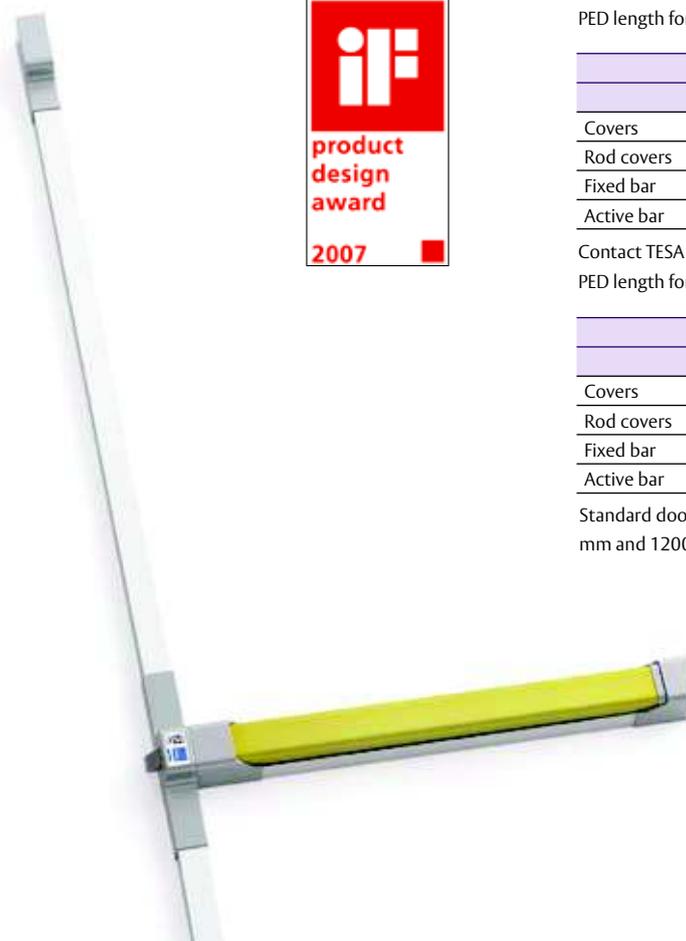
Silver - silver finish (GG)		
	Anodized aluminium	Silver RAL 9006
Covers		•
Rod covers	•	
Fixed bar	•	
Active bar		•

Contact TESA for different finishes
PED length for 800 mm, 1000 mm and 1200 mm width doors

Silver - lime finish (LG)			
	Anodized aluminium	Silver RAL 9006	Lime
Covers		•	
Rod covers	•		
Fixed bar	•		
Active bar			•

Contact TESA for different finishes
PED length for 800 mm, 1000 mm and 1200 mm width doors

Stainless steel finish (IL)	
	Stainless steel. AISI 304
Covers	•
Rod covers	•
Fixed bar	•
Active bar	•

Standard door lengths: for doors of 600mm, 700 mm, 800 mm, 900mm, 1000 mm and 1200 mm.

iF product design award 2007

Rim model. TOP1S

Rim panic device with a lateral locking point. Stainless steel orbital latch.

Certification UNE-EN 1125:

3	7	6	B	1	4	2	2	B	A

The box includes:
» 1 horizontal bar and a modular head.
» Accessories: Square spindle, fixing screws, strike, follower, covers for vertical rod ends and base plate.
» Assembly instructions and installation template.
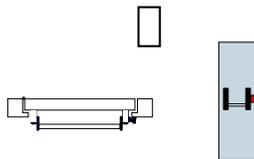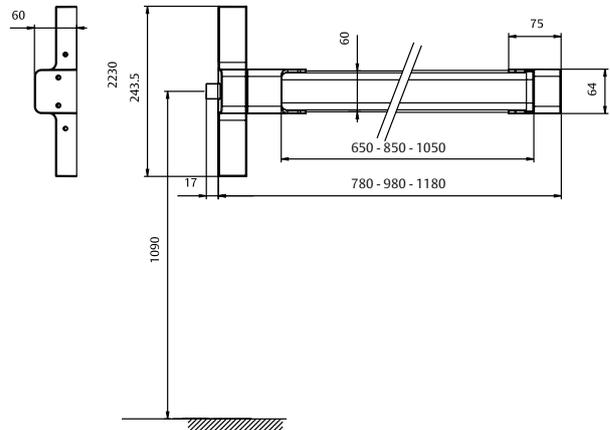
2 million cycles
AENOR CERTIFICATE
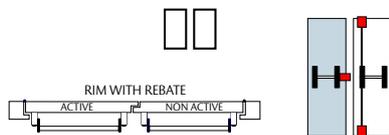
TOP1S stainless steel finish.

AENOR
N
Producto
Certificado
047/000029

Model	Door width	Finish	Product code
TOP1S	800 mm	Lime - Silver	TOP1S808LG
		Silver - Silver	TOP1S808GG
		Stainless steel	TOP1S808IL
TOP1S	1.000 mm	Lime - Silver	TOP1S108LG
		Silver - Silver	TOP1S108GG
		Stainless steel	TOP1S108IL
TOP1S	1.200 mm	Lime - Silver	TOP1S128LG
		Silver - Silver	TOP1S128GG
		Stainless steel	TOP1S128IL

Configuration

1 leaf door

2 leaf door

RIM WITH REBATE
ACTIVE   NON ACTIVE

60
2230
243.5
1090
17
60
75
64
650 - 850 - 1050
780 - 980 - 1180

Outside device		Blind plate	Euro-profile plate	Lever handle with euro-profile	Lever handle	Pull knob with euro-profile	Modular lever handle
No outside opening		●					●
Free passig door					●		●
Cylinder looking	Knob / lever handle opening			●			●
	Key opening		●			●	●

H

Touch type panic exit devices, TOP series

Rim model. TOP20

Rim panic device with 2 locking points with steel roller bolts.

Certification UNE-EN 1125:

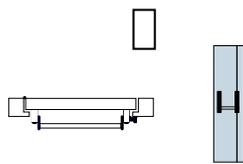| 3 | 7 | 6 | B | 1 | 4 | 2 | 2 | B | A |

The box includes:
- » 1 horizontal bar and a modular head.
- » 930 mm length vertical rod.: 2 units.
- » 2 locking points, upper and lower.
- » Accessories:Fixing screws, 2 strikes: upper and lower, follower, square spindle and base plate.
- » Assembly instructions and installation template.
- » 2 vertical rod covers.

Model	Door width	Finish	Product code
TOP20	800 mm	Lime - Silver	TOP20808LG
		Silver - Silver	TOP20808GG
		Stainless steel	TOP20808IL
TOP20	1.000 mm	Lime - Silver	TOP20108LG
		Silver - Silver	TOP20108GG
		Stainless steel	TOP20108IL
TOP20	1.200 mm	Lime - Silver	TOP20128LG
		Silver -Silver	TOP20128GG
		Stainless steel	TOP20128IL

Configuration

1 leaf door

2 leaf door

RIM WITH REBATE
ACTIVE   NON ACTIVE

RIM WITHOUT REBATE
LEAF 1   LEAF 2

Outside device		Blind plate	Euro-profile plate	Lever handle with euro-profile	Lever handle	Pull knob with euro-profile	Modular lever handle
No outside opening		•					•
Free passig door					•		•
Cylinder looking	Knob / lever handle opening			•			•
	Key opening	•				•	•

H

High security cylinder TX80

ANTI-COPY SYSTEM PATENTED

Technical data

Tx80 cylinders have been designed according to the highest quality protection systems. It is a model in constant evolution that incorporates the most advanced security developments (bumping, picking…etc). A design thought to offer to the user the higher security grade in all its extension.

Characteristics

» Type: Patented dimple key with security sensor.
» NO. of rows: 2
» NO. of pins: 8
» Technology: Tumbler regular.
» Permutation level: Grade 6.
» Corrosion resistance: Grade B
» Anti pick cylinder lock (High resistance.)
» Bump proof system.
» Drill protection grade 2.
» Lifespan: 100,000 test cycles.
» Key copies protected with security card.
» Clutch of double security.
» 5 patented keys made of nickel silver.
» Conform to EN-1303 regulation.
» Master key systems: High capability using side pins and multi profile key ways.

Options

» Finishes: Brass / Nickel.
» Cam: DIN R15 and R13.
» Formats available: Key different, mater keyed, key alike and specific codes.
» Wide measurement and profile range.
» Colour points to differentiate master key levels.

Master key systems

The patented character of the system will let the owner control, in every moment, the key copies thanks to the property card provided with each cylinder or master key suite.

Security	Masterkeying
★★★ ★★★	★★★ ★★
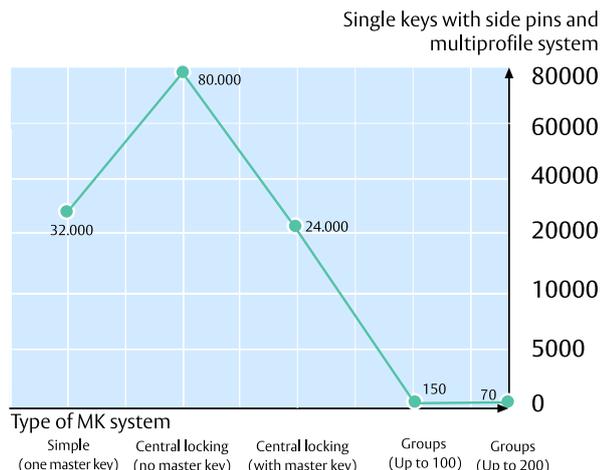
European standard regulation

In the same way as the main models included in the catalogue, TX80 is certified according to the European standard regulation.

1	6	0	1	0	B	6	0
Key resistance (Grade 0-1)	Lifespan (Grade 4-6)	Door mass (Not applied in cylinder)	Fire resistance (Grade 0-1)	Safety of the people (Not applied in cyliders)	Corrosion and temperature resistance (Grade 0-A-B-C)	Key related security (Grade 1 to 6)	Attack resistance (Grade 0 to 2)

*Note; with the shield E700 the attack resistance rise to the level 2.

Recommendations

» Use TESA lubricant to lengthen the maximum lifespan of the cylinder.
» TESA recomends to the user of the TX80 to keep the property card in a safe and secure location. Only by presenting this card, can one obtain key and cylinder copies.
» For safety reasons, when you install a new cylinder, remember that once installed, it should not project more than 1mm.
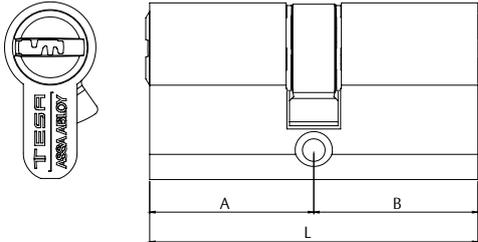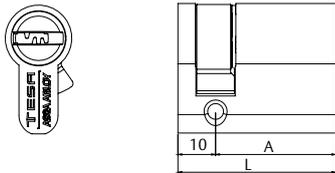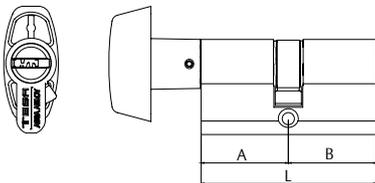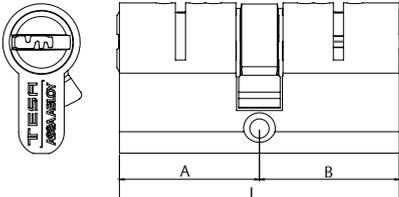
USE ONLY TESA LUBRICANT   **KEEP THE PROPERTY CARD**

Single keys with side pins and multiprofile system

	80000
80.000	
	60000
	40000
32.000 24.000	20000
	10000
	5000
150 70	0

Type of MK system

| Simple (one master key) | Central locking (no master key) | Central locking (with master key) | Groups (Up to 100) | Groups (Up to 200) |

High security cylinder TX80
Patented

European profile

Double european.		L	A	B	Cam = 15 mm	Finish	Cam = 15 mm	Finish
		60	30	30	TX85 30 30 L	Brass	TX85 30 30 N	Nickel
		65	30	35	TX85 30 35 L	Brass	TX85 30 35 N	Nickel
		70	30	40	TX85 30 40 L	Brass	TX85 30 40 N	Nickel
		70	35	35	TX85 35 35 L	Brass	TX85 35 35 N	Nickel
		75	30	45	TX85 30 45 L	Brass	TX85 30 45 N	Nickel
		75	35	40	TX85 35 40 L	Brass	TX85 35 40 N	Nickel
		80	30	50	TX85 30 50 L	Brass	TX85 30 50 N	Nickel
		80	35	45	TX85 35 45 L	Brass	TX85 35 45 N	Nickel
		80	40	40	TX85 40 40 L	Brass	TX85 40 40 N	Nickel
		85	35	50	TX85 35 50 L	Brass	TX85 35 50 N	Nickel
		90	30	60	TX85 30 60 L	Brass	TX85 30 60 N	Nickel
		90	35	55	TX85 35 55 L	Brass	TX85 35 55 N	Nickel
		90	40	50	TX85 40 50 L	Brass	TX85 40 50 N	Nickel
		90	45	45	TX85 45 45 L	Brass	TX85 45 45 N	Nickel
		100	30	70	TX85 30 70 L	Brass	TX85 30 70 N	Nickel
		100	40	60	TX85 40 60 L	Brass	TX85 40 60 N	Nickel
		100	50	50	TX85 50 50 L	Brass	TX85 50 50 N	Nickel
		110	30	80	TX85 30 80 L	Brass	TX85 30 80 N	Nickel
		110	50	60	TX85 50 60 L	Brass	TX85 50 60 N	Nickel
		120	30	90	TX85 30 90 L	Brass	TX85 30 90 N	Nickel
		120	40	80	TX85 40 80 L	Brass	TX85 40 80 N	Nickel
		120	60	60	TX85 60 60 L	Brass	TX85 60 60 N	Nickel
		130	30	100	TX85 31 00 L	Brass	TX85 31 00 N	Nickel
		140	40	100	TX85 41 00 L	Brass	TX85 41 00 N	Nickel
		150	50	100	TX85 51 00 L	Brass	TX85 51 00 N	Nickel
		160	60	100	TX85 61 00 L	Brass	TX85 61 00 N	Nickel

Single european		L	A	B	Cam = 15 mm	Finish	Cam = 15 mm	Finish
		40	30	10	TX85 30 10 L	Brass	TX85 30 10 N	Nickel
		45	35	10	TX85 35 10 L	Brass	TX85 35 10 N	Nickel
		50	40	10	TX85 40 10 L	Brass	TX85 40 10 N	Nickel
		60	50	10	TX85 50 10 L	Brass	TX85 50 10 N	Nickel
		70	60	10	TX85 60 10 L	Brass	TX85 60 10 N	Nickel
		80	70	10	TX85 70 10 L	Brass	TX85 70 10 N	Nickel
		90	80	10	TX85 80 10 L	Brass	TX85 80 10 N	Nickel
		100	90	10	TX85 90 10 L	Brass	TX85 90 10 N	Nickel

Knob european		L	A	B	Cam = 15 mm	Finish	Cam = 15 mm	Finish
		60	30	30	TX8B 30 30 L	Brass	TX8B 30 30 N	Nickel
		65	30	35	TX8B 30 35 L	Brass	TX8B 30 35 N	Nickel
		70	35	35	TX8B 35 35 L	Brass	TX8B 35 35 N	Nickel
		70	40	30	TX8B 40 30 L	Brass	TX8B 40 30 N	Nickel
		80	30	50	TX8B 30 50 L	Brass	TX8B 30 50 N	Nickel
		80	40	40	TX8B 40 40 L	Brass	TX8B 40 40 N	Nickel
		85	35	50	TX8B 35 50 L	Brass	TX8B 35 50 N	Nickel
BT BUTLER SYSTEM**		90	30	30	TX8BTB3030L	Latón	TX8BTB3030N	Níquel
		90	35	30	TX8BTB3530L	Latón	TX8BTB3530N	Níquel

European with assistant function		L	A	B	Cam = 15 mm	Finish	Cam = 15 mm	Finish
		60	30	30	TX85 30 30 LLIM	Brass	TX85 30 30 NLIM	Nickel
		70	30	40	TX85 30 40 LLIM	Brass	TX85 30 40 NLIM	Nickel
		70	35	35	TX85 35 35 LLIM	Brass	TX85 35 35 NLIM	Nickel
		80	40	40	TX85 40 40 LLIM	Brass	TX85 40 40 NLIM	Nickel
		90	40	50	TX85 40 50 LLIM	Brass	TX85 40 50 NLIM	Nickel
		90	45	45	TX85 45 45 LLIM	Brass	TX85 45 45 NLIM	Nickel

These cylinders are provided with 4 owner keys and one for the assistant.
Both side A and B includes the function.

* To process "master keyed" and "cylinders alike" orders add either AM or KA in each part number, respectively.
** The butler system lets operate with the key from the outside even if knob is blocked. Is a solution thought for schools, geriatrics.. etc.
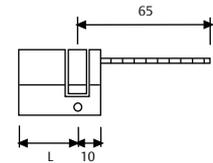
## Outside devices. Rim models

Sena lever handle

8 mm follower

Adjustable cylinder available with all systems.

Outside device	Product code
Blind plate, black RAL 9005	E1910EXNE
Blind plate inox	E1910EXIS16
Euro-profile plate* black RAL 9005	E1911EXNE
Euro-profile plate* inox	E1911EXIS16
Sena Lever handle + euro-profile* black RAL 9005	S1912EXNE
Kubika handle euro-profile* inox	KU1912EXIS16
Obbal handle euro-profile* inox	O1912EXIS16
Sena handle euro-profile* inox	S1912EXIS16
Sena handle blind plate, black RAL 9005	S1913EXNE
Kubika handle blind plate	KU1913EXIS16
Obbal handle blind plate	O1913EXIS16
Sena handle blind plate inox	S1913EXIS16
Pull knob* inox	TTF10UNE
Pull knob* inox	TTF10UIS16

L	A	B	Product code	Finish
40	30	10	TE5R3010L	Brass
40	30	10	TE5R3010N	Nickel
50	40	10	TE5R4010L	Brass
50	40	10	TE5R4010N	Nickel

* Requires regulated cylinder.

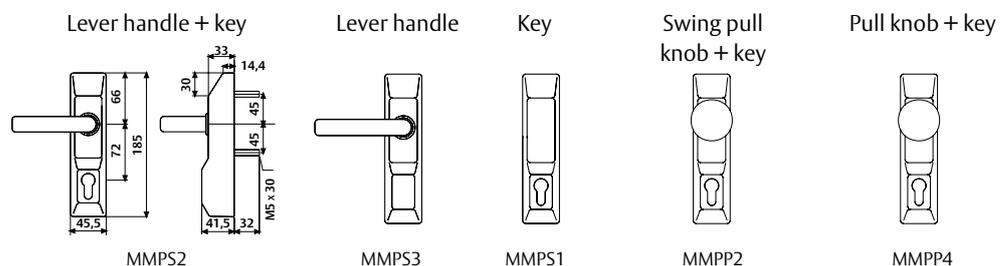| Lever handle + key	Blind plate	Key	Lever handle	Pull knob
S1912EX	E1910EX	E1911EX	S1913EX	TTF10U
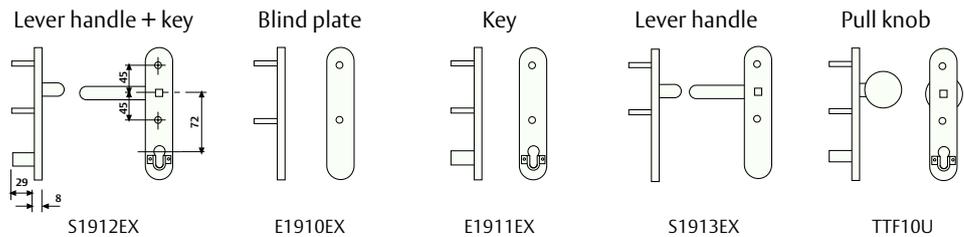
Modular lever handle

8 m follower

30 x 10 cylinder with r=15 mm available with all systems.

Outside device	Cylinder	Product code
Modular euro-profile black RAL 9005	TE-5	MMPS1T5NE
Modulareuro-profile silver RAL 9006	TE-5	MMPS1T5PL
Modular euro-profileblack RAL 9005	without cylinder	MMPS1SCNE
Modular euro-profile silver RAL 9006	without cylinder	MMPS1SCPL
Modular lever handle black RAL 9005	--	MMPS300NE
Modular lever handle silver RAL 9006	--	MMPS300PL
Modular lever handle with euro-profile black RAL 9005	TE-5	MMPS2T5NE
Modular lever handle with euro-profile silver RAL 9006	TE-5	MMPS2T5PL
Modular lever handle with euro-profile black RAL 9005	without cylinder	MMPS2SCNE
Modular lever handle with euro-profile silver RAL 9006	without cylinder	MMPS2SCPL
Modular swing pull knob with euro-profile black RAL 9005	TE-5	MMPP2T5NE
Modular swing pull knob with euro-profile silver RAL 9006	TE-5	MMPP2T5PL
Modular swing pull knob with euro-profile black RAL 9005	without cylinder	MMPP2SCNE
Modular swing pull knob with euro-profile silver RAL 9006	without cylinder	MMPP2SCPL
Modular pull knob with euro-profile black RAL 9005	TE-5	MMPP4T5NE
Modular pull knob with euro-profile silver RAL 9006	TE-5	MMPP4T5PL
Modular pull knob with euro-profile black RAL 9005	without cylinder	MMP4SCNE
Modular pull knob with euro-profile silver RAL 9006	without cylinder	MMP4SCPL

Lever handle + key	Lever handle	Key	Swing pull knob + key	Pull knob + key
MMPS2	MMPS3	MMPS1	MMPP2	MMPP4

Outside device for TOP series

Outside devices. Rim models (TOP1S, TOP3S y TOP20)

Sena lever handle

8 mm follower

Outside device	Product code
Blind plate, black RAL 9005	E1910EXNE
Blind plate inox	E1910EXIS16
Euro-profile plate* black RAL 9005	E1911EXNE
Euro-profile plate* inox	E1911EXIS16
Sena Lever handle + euro-profile* black RAL 9005	S1912EXNE
Kubika handle euro-profile* inox	KU1912EXIS16
Obbal handle euro-profile* inox	O1912EXIS16
Sena handle euro-profile* inox	S1912EXIS16
Sena handle blind plate, black RAL 9005	S1913EXNE
Kubika handle blind plate	KU1913EXIS16
Obbal handle blind plate	O1913EXIS16
Sena handle blind plate inox	S1913EXIS16
Pull knob* inox	TTF10UNE
Pull knob* inox	TTF10UIS16

* Requires regulated cylinder.

* Requires half a cylinder
L x 10 de r =15 mm any system is valid.
L=door thickness +25 mm.

Lever handle + key	Blind plate	Key	Lever handle	Pull knob
S1912EX	E1910EX	E1911EX	S1913EX	TTF10U
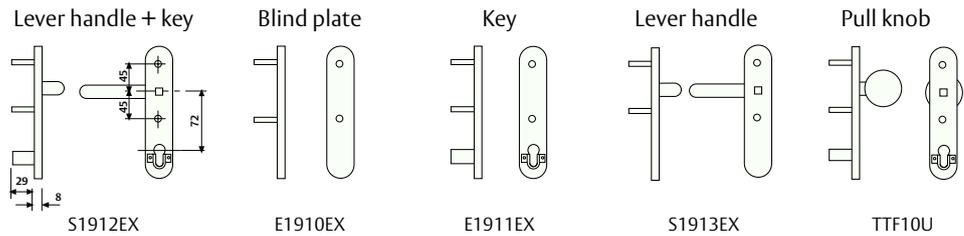
Modular lever handle

8 mm follower

30 x 10 cylinder with r=15 mm available with all systems.

Outside device	Cylinder	Product code
Modular euro-profile black RAL 9005	TE-5	MMPS1T5NE
Modulareuro-profile silver RAL 9006	TE-5	MMPS1T5PL
Modular euro-profileblack RAL 9005	without cylinder	MMPS1SCNE
Modular euro-profile silver RAL 9006	without cylinder	MMPS1SCPL
Modular lever handle black RAL 9005	--	MMPS300NE
Modular lever handle silver RAL 9006	--	MMPS300PL
Modular lever handle with euro-profile black RAL 9005	TE-5	MMPS2T5NE
Modular lever handle with euro-profile silver RAL 9006	TE-5	MMPS2T5PL
Modular lever handle with euro-profile black RAL 9005	without cylinder	MMPS2SCNE
Modular lever handle with euro-profile silver RAL 9006	without cylinder	MMPS2SCPL
Modular swing pull knob with euro-profile black RAL 9005	TE-5	MMPP2T5NE
Modular swing pull knob with euro-profile silver RAL 9006	TE-5	MMPP2T5PL
Modular swing pull knob with euro-profile black RAL 9005	without cylinder	MMPP2SCNE
Modular swing pull knob with euro-profile silver RAL 9006	without cylinder	MMPP2SCPL
Modular pull knob with euro-profile black RAL 9005	TE-5	MMPP4T5NE
Modular pull knob with euro-profile silver RAL 9006	TE-5	MMPP4T5PL
Modular pull knob with euro-profile black RAL 9005	without cylinder	MMP4SCNE
Modular pull knob with euro-profile silver RAL 9006	without cylinder	MMP4SCPL

Lever handle + key	Lever handle	Key	Swing pull knob + key	Pull knob + key
MMPS2	MMPS3	MMPS1	MMPP2	MMPP4

DC500

Door closer with Cam-Motion® technology and guide rail

ASSA ABLOY DC500

· Door closer with Cam-Motion® technology and height-adjustable guide rail G195 or standard guide rail G193
· Fulfils barrier-free building requirements (DDA / CEN TR 15894)
· Certified in compliance with EN 1154, size 1-4
· Suitable for fire and smoke protection doors
· For single action doors up to 1100 mm wide
· Can be used in four installation types: hinge and non-hinge sides in standard and frame installation

Characteristics DC500

· Can be used with integrated concealed mounting plate, suitable for fire and smoke protection doors
· Can be used for left and right-handed doors
· Axis continuously height adjustable up to 14 mm
· Closing speed, latching speed and backcheck adjustable via front facing regulating valves
· Thermodynamic valves for consistent performance
· Variable adjustable closing force
· Opening angle up to 170°
· Effective backcheck and latching speed range adjustable
· Large range of applications
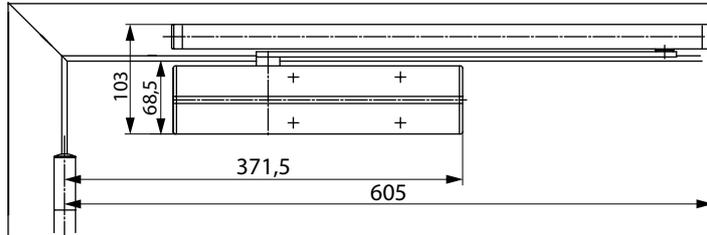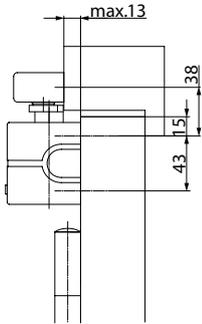· Standard colours: silver EV1; white, similar to RAL9016; brown, similar to RAL8014; black, similar to RAL9005, stainless steel
· Customised finishes available on request

Characteristics for guide rail G195

· Height-adjustable by 2 mm for tolerance
· Concealed fastening screws
· Installation dimensions: see diagram

Characteristics of standard guide rail G193

· Without protective cover
· Visible fastening screws
· Installation dimensions: see diagram (dimensions in brackets)

CE	Abloy OY PO Box 108 80101 Joensuu,Finland	13
1162-CPD-0629	EN 1154:1996+A1:2002	3	8	4 1	1	1	4
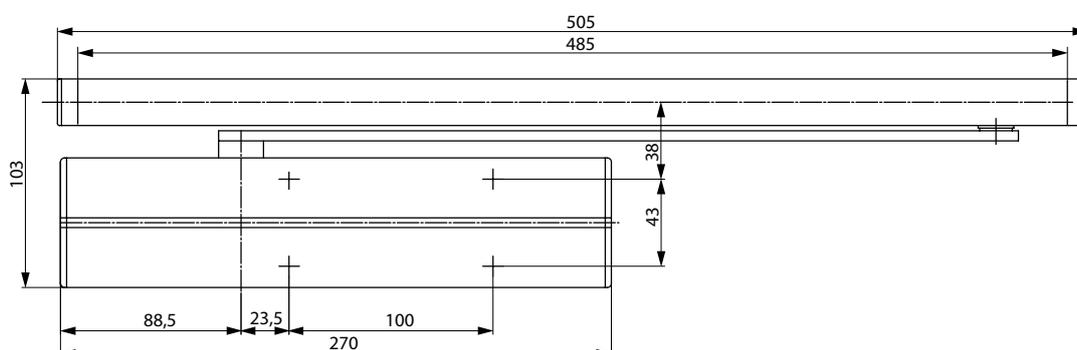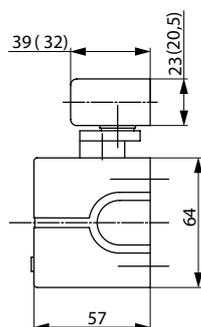
DC500
Technical attributes

Technical attributes	
Variable adjustable closing force	EN 1-4
Door width up to	1100 mm
Fire and smoke protection	yes
DIN door swing directions	left / right handed
Standard and frame installation	yes
Closing speed	Variable between 170°-10°
Latching speed	Variable between 10°-0°
Backcheck	Variable above 75°
Opening angle hinge side	ca. 170°
Opening angle non-hinge side	ca. 120°
Weight	2.7 kg
Height	64 mm
Depth	57 mm
Width	270 mm
Certified in compliance with	EN 1154
CE marking for building products	yes

Our service for you: here you can see the individual advantages of our door closer models for your respective field of business.

The advantages at a glance

Customer segment	Advantages
Project planners	- Extensive range of uses: Fire and smoke protection doors as well as standard doors - Modern design - Compact design - Fulfils barrier-free building requirements (DDA / CEN TR 15894) - Same dimensions and design with and without mounting plate
Builders	- One drilling template overall - Adjustable to nearly all door and frame types - Quick and easy installation - Quickly and easily adjustable - Suitable for left and right handed doors for standard and frame mounting on hinge and non-hinge side
Trade	- Reduced inventory costs due to modular product range - One single product suitable for a large variety of mounting positions - Complementary accessories available for the whole product range
User	- Largely unaffected by temperature fluctuations thanks to thermodynamic valves - Easier door opening and improved accessibility due to reapidly decreasing torque

Specifications for DC500

ASSA ABLOY Door Closer DC500 with Cam-Motion® technology and guide rail in compliance with EN 1154

- Closing power continuously adjustable, EN size 1-4, for doors up to 1100 mm wide
- Closing speed, latching speed and backcheck continuously adjustable
- Can be used with integrated concealed mounting plate, suitable for fire and smoke protection doors
- CE approved
- 14 mm height adjustable arm system for ease of fitting
- Standard and frame mounting on hinge and non-hinge side of the door
- Suitable for left and right handed doors

You can find the complete specifications on the Internet at: www.assaabloy.de, under „Service" in the support section.

Accessories:
- ☐ Standard guide rail G193
- ☐ Height-adjustable guide rail G195
- ☐ Mounting plate A120
- ☐ Mounting plate A130 for guide rail G193 and G195
- ☐ Angle bracket A104 for guide rail G193
- ☐ Mechanical opening damper A153
- ☐ Mechanical hold-open device A152 (not for fire and smoke protection doors)
- ☐ Glass door shoe A166

Colour:
- ☐ Silver EV1
- ☐ White, similar to RAL9016
- ☐ Brown, similar to RAL8014
- ☐ Black, similar to RAL9005
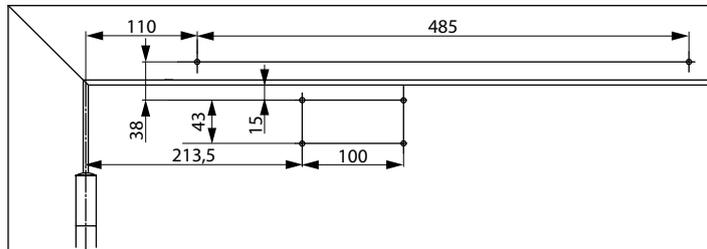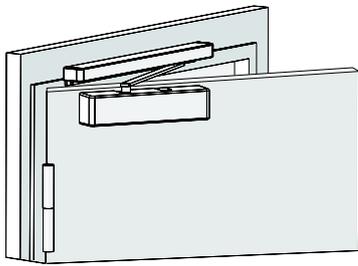- ☐ Stainless steel
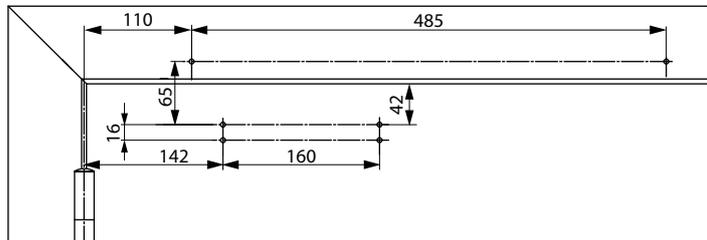- ☐ Customised finish

DC500
Dimensional drawings

Space required on doors for standard installation on hinge side
Left handed shown in diagram
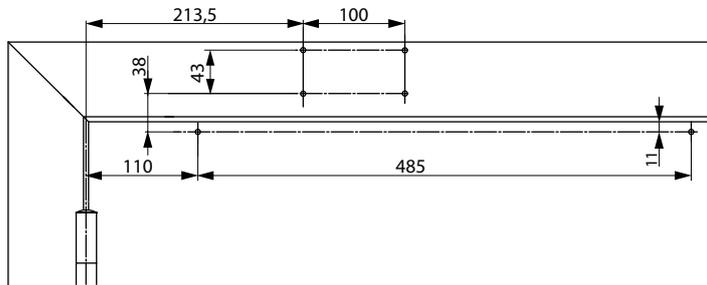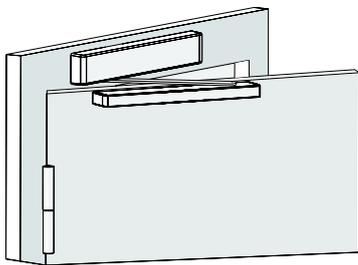Right handed is the reverse

Installation dimensions for direct standard mounting on hinge side
Left handed shown in diagram
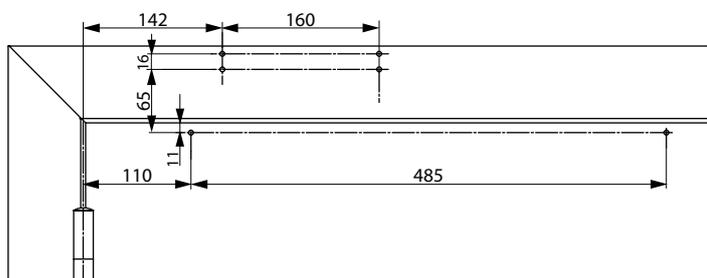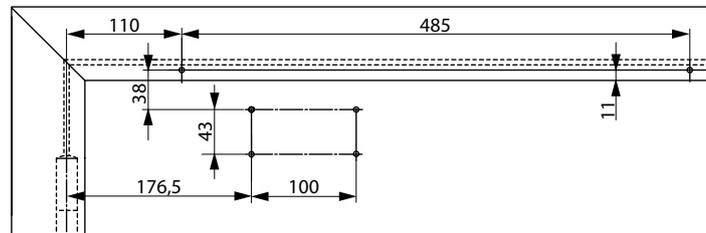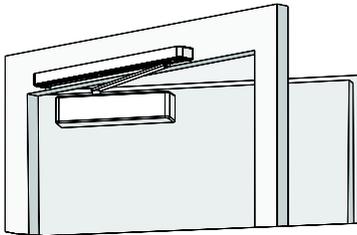Right handed is the reverse

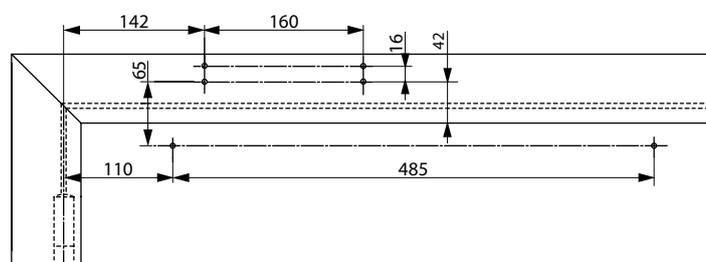**Installation dimensions with mounting plate for standard mounting on hinge side**
In compliance with EN 1154, Supplement 1, or for doors where direct mounting is not possible.
Left handed shown in diagram
Right handed is the reverse

Installation dimensions for direct frame mounting on hinge side
Closer on hinge side of door frame.
Left handed shown in diagram
Right handed is the reverse

Installation dimensions with mounting plate for frame mounting on hinge side
Closer on hinge side of door frame. For doors where direct mounting is not possible.
Left handed shown in diagram
Right handed is the reverse

DC500
Dimensional drawings

Installation dimensions for direct standard mounting non hinge side
Right handed door shown in diagram
Left handed door is the reverse

110   485
38
43
11
176,5   100
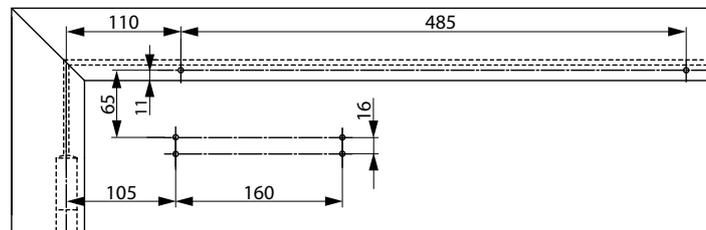
Installation dimensions with mounting plate for standard mounting non hinge side
For doors where direct mounting is not possible
Right handed door shown in diagram
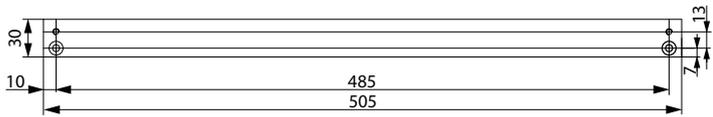Left handed door is the reverse

110   485
65   11   16
105   160
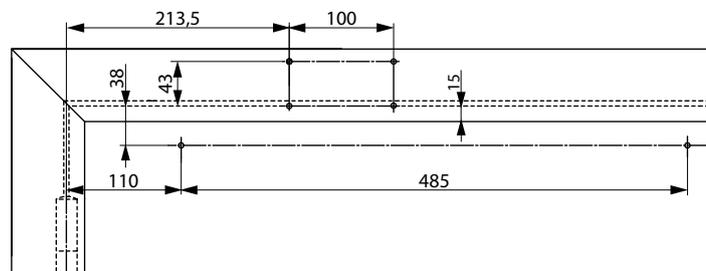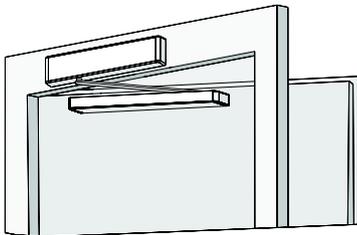
Installation dimensions when mounted directly onto the frame non-hinge side
Closer on non-hinge side of door frame
Right handed door shown in diagram
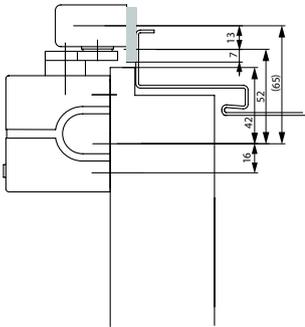Left handed door is the reverse

213,5   100
38   43   15
110   485

Installation dimensions with mounting plate for frame mounting non-hinge side
Closer on non-hinge side of door frame. For doors where direct mounting is not possible.
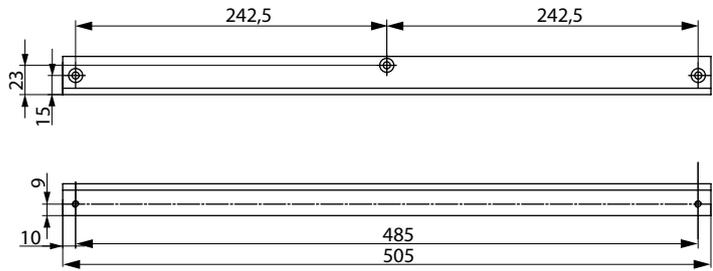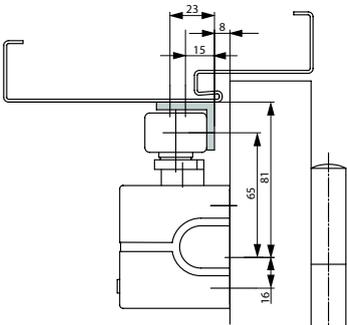Right handed door shown in diagram
Left handed door is the reverse

142   160   16   42
65
110   485
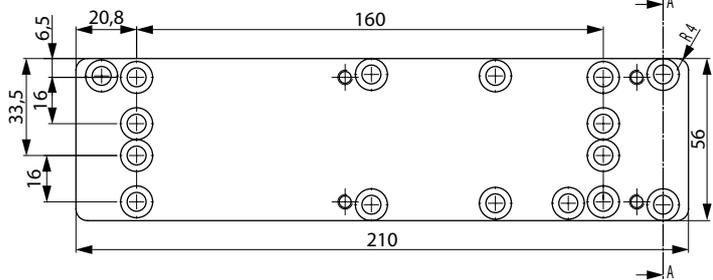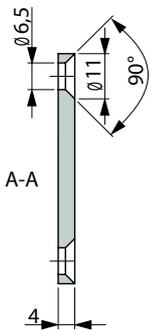
DC500

Accessories
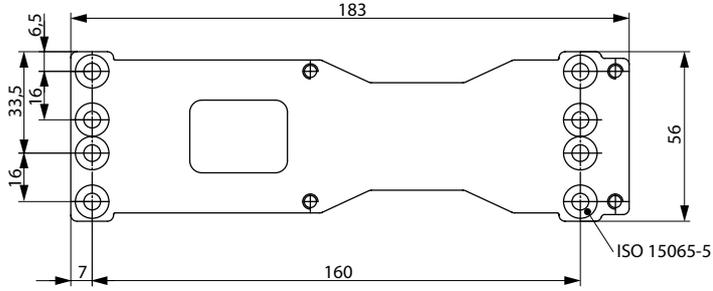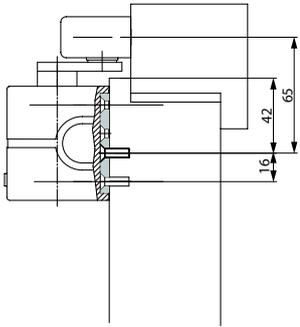
Mounting plate A120

For mounting with drilling template acc. to EN 1154 Supplement 1 and for universal use

183
6,5
33,5
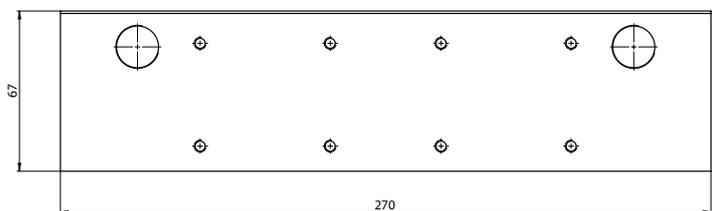16
16
56
7
160
ISO 15065-5

Mounting plate A130

For guide rail G193 and G195

7 13
(65)
52
42
16
30
13
10
485
505
7

Angle bracket A104

Only for standard guide rail G193

23
8
15
242,5   242,5
23
15
65   81
16
9
10
485
505

Replacement plate A124

For renovation applications

Ø6,5
Ø11
90°
A-A
4
20,8
160
6,5
33,5
16
16
56
210
A
R4
A
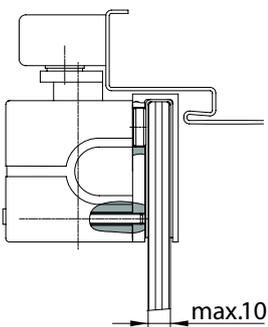
Glass door shoe A166

For mounting the door closer on the all-glass door leaf.

max.10
67
270

DC500
Accessories and order placement information

Stainless steel full cover
For DC500 and DC700

Stainless steel design cover
For DC500 and DC700

Hold-open device A152
Mechanical hold-open device for doors which sometimes need to be secured in the open position.
Simple fitting into guide rail G193 and G195.
Hold-open angle max. 130°
Adjustable hold-open force
Not approved for use on fire and smoke protection doors.

Opening damper A153
Helps to prevent the door and door handle from hitting a return wall.
Simple fitting into guide rail.
Opening damper continuously adjustable up to an opening angle of max. 130°.
Does not replace a door stop.

Description	Order no.
DC500, EN size 1-4, silver EV1	
DC500, EN size 1-4, white, similar to RAL9016	
DC500, EN size 1-4, brown, similar to RAL8014	
DC500, EN size 1-4, black, similar to RAL9005	
DC500, EN size 1-4, stainless steel, ASSA ABLOY design	
DC500, EN size 1-4, stainless steel full cover	
DC500, EN size 1-4, customised finish	
Guide rail G193, silver EV1	
Guide rail G193, white, similar to RAL9016	
Guide rail G193, brown, similar to RAL8014	
Guide rail G193, black, similar to RAL9005	
Guide rail G195, silver EV1	
Guide rail G195, white, similar to RAL9016	
Guide rail G195, brown, similar to RAL8014	
Guide rail G195, black, similar to RAL9005	
Guide rail G195, stainless steel	

Description	Order no.
Guide rail G195, bespoke finish	
Mounting plate A120, galvanised	
Replacement plate A124, galvanised	
Mounting plate A130, silver EV1	
Mounting plate A130, white, similar to RAL9016	
Mounting plate A130, brown, similar to RAL8014	
Mounting plate A130, black, similar to RAL9005	
Mounting plate A130, customised finish	
Mounting plate A136, non-hinge side, for Guide Rail G193 and G195, 40 mm, silver EV1	
Glass door shoe A166, silver EV1	
Angle bracket A104, silver EV1	
Angle bracket A104, RAL9016 white	
Angle bracket A104, brown, similar to RAL8014	
Angle bracket A104, black, similar to RAL9005	
Hold-open device A152	
Opening damper A153	

Accessories - Institutional stainless AISI 304
Stopper

Half-dome door stopper ø45

The pack includes:
» Rubber plug with fixing screws.

Finish
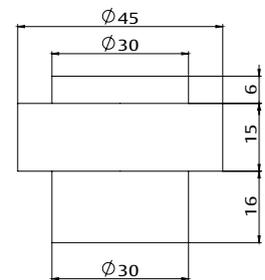» IS304

Product code	Finishes
TOPINOX45IS	IS-

Full-dome door stopper

The pack includes:
» Rubber plug with fixing screws.
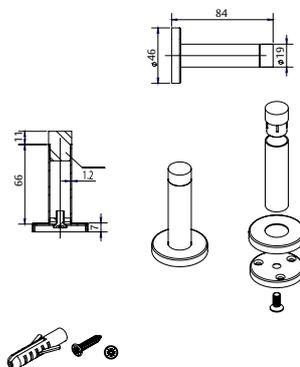
Finish
» IS304

Product code	Finishes
TOPINOXRIS	IS-

Wall door stopper

The pack includes:
» Rubber plug with fixing screws.

Finish
» IS304

Product code	Finishes
TOPINOX4320IS	IS-

Coath hook w/ rubber buffer

The pack includes:
» Rubber plug with fixing screws.

Finish
» IS304

Product code	Finishes
TOPERCHAIS	IS-