

ABLOY® DOOR CLOSERS

Exactly the right choice



ABLOY® DOOR CLOSERS



Superior performance and reliability

ABLOY[®] high security products are known and highly respected all over the world.

Every item in our wide product range represents top quality and superior performance.

ABLOY[®] door closers protect door constructions by controlling the opening and closing actions of the door. Reliable performance over a wide operational temperature range guarantees that energy will be saved and security increased.

Production of **ABLOY**[®] door closers started in the 1930s. Today, we exploit the high quality and advanced technology in our new purpose-built production facilities. Our long experience and extensive expertise combined with customer-oriented research and development mean that we have a wide range of solutions for the varying demands of different door environments.

Our global network of sales offices and distributors will help you to choose right products to increase security and convenience in your specific application. The functions, features, and wide variety of installation alternatives offered by **ABLOY**[®] door closers give you convenient operation, simplified installation and ease of adjustment and maintenance.



ABLOY® DOOR CLOSERS



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COLOURS AVAILABLE

PLASTIC COVERS





METAL COVERS

Stainless steel Bright brass



Note: **ABLOY**[®] DC270 is available only with metal cover. Colours white, brass, silver and stainless steel.

OPERATION OF DOOR CLOSERS

OPERATION

Operation is based on a hydraulically controlled rack and pinion or CAM-action mechanism (DC330, DC250). Within the closer there is oil to control the closing and latching speeds and delayed closing and back check features. The adjustable valves enable the adjustment of the speeds and features.

Opening a door, the spring inside the closer is becoming tense. When door is released the potential of the spring push the piston back and door closes. Pressure relief valves are standard feature (excluding DC210 and DC215) to protect the door from abuse and ensure reliable operation in demanding conditions.

ADJUSTMENT (C- AND L-VALVE)

Closing speed (Valve C): The closing speed can be adjusted 180 - 15 degrees (DC330 and DC250 170 - 7 degrees).

Latching speed (Valve L): The latching speed can be adjusted 15 - 0 degrees (DC330 and DC250 7-0 degrees).

BACK CHECK (BC)

A brake affects door movement from 70°-80° to fully open (180°) and protects the door by preventing it from being pulled open by the wind. This feature can be adjusted by selecting the desired arm position. Adjustment by using valve B. Recommended for use with external doors.

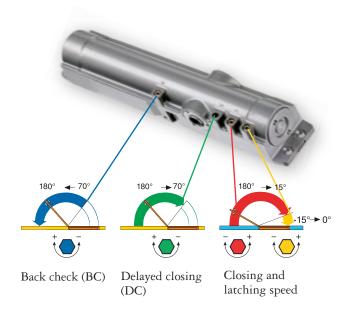
DELAYED CLOSING (DC)

Delayed closing slows down the movement of the door from fully open (180°) to approximately 70°, after passing this point the door closes at normal speed. The starting angle can be adjusted by selecting desired arm position. Closing speed can be adjusted by adjustable valve D. Adjustable valve enables the adjustment of closing speed. Recommended for internal doors.

ADJUSTABLE CLOSING FORCE

ABLOY[®] DC335, DC240, DC247, DC250, DC330, DC270 door closers are equipped with adjustable spring power which ensures the presetting of spring.

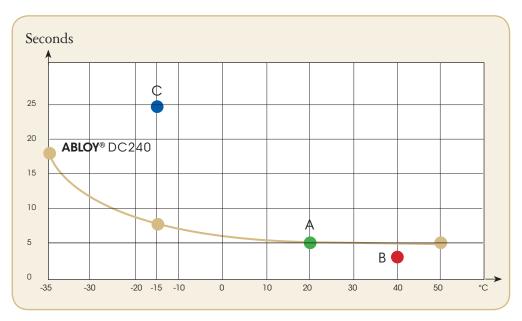
Due to adjustable spring power, the same door closer can be used in various applications.



CLOSING TIME AS A FUNCTION OF TEMPERATURE

Changes in temperature have only a minimal effect on the performance of **ABLOY**[®] door closers.

ABLOY[®] DC240 guarantee constant closing speed in every situation. High quality hydraulic oil and patented valve systems have already earned this product a legendary reputation.

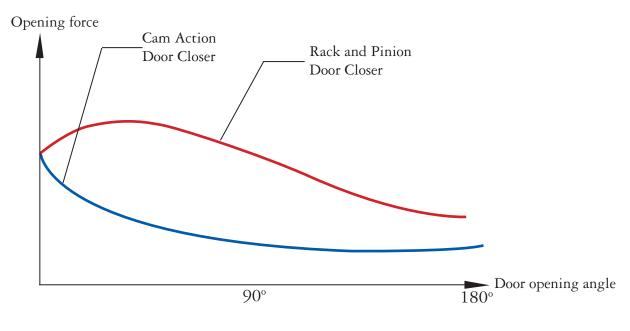


Changes in temperature have only a minimal effect on the performance of **ABLOY**[®] door closers and adjusted features. **ABLOY**[®] door closer exceeds standards demands for temperature area.

The EN1154 standard specifies the following:

- A A standard closing time of 5 seconds at +20 °C
- **B** A minimum closing time of 3 seconds at +40 °C (check point only)
- C A maximum closing time of 25 seconds at -15 °C (check point only)

DOOR OPENING FORCE WITH SLIDING ARM



ABLOY® DC210 DOOR CLOSER



ABLOY® DC210

Interior doors with a maximum weight 60 kg and door leaf width 950 mm.

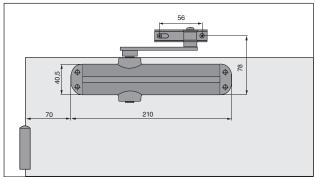
FEATURES

- Adjustable closing force size EN 2 or 3 according EN1154
- Separate adusting valves for closing and latching speed
- Die-cast aluminium body
- Arm is included in the package
- Three colours: silver, white and brown



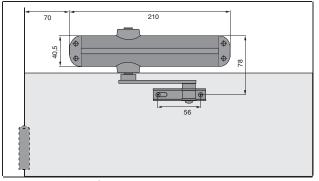
INSTALLATION

OPENING SIDE



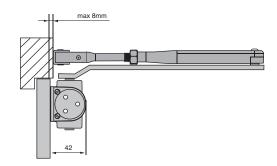
Maximum opening angle 180°

CLOSING SIDE

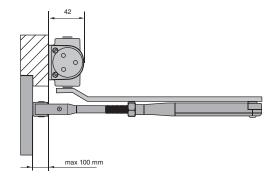


Maximum opening angle 180°

DIMENSIONS



No height adjustment between arm and door closer.



ABLOY® DC215 DOOR CLOSER



ABLOY® DC215

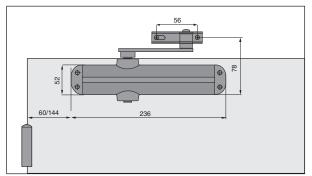
Suitable for external and internal doors. Maximum door weight 80 kg and door leaf width 1100 mm.

FEATURES

- CE-certified
- Closing force size EN 2, 3 or 4 according EN1154
- Separate adjusting valves for closing and latching speed
- Die-cast aluminium body
- Arm is included in the package
- Three colours: silver, white and brown

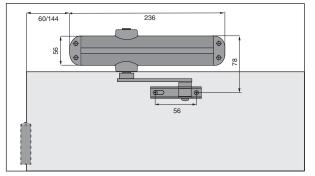
INSTALLATION

OPENING SIDE



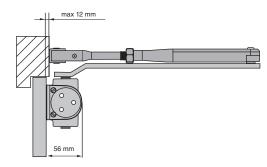
Maximum opening angle 180°

CLOSING SIDE

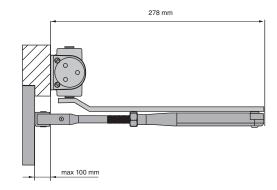


Maximum opening angle 180°

DIMENSIONS



No height adjustment between arm and door closer.



ABLOY® DC335 DOOR CLOSER



ABLOY® DC335

DIMENSIONS

Suitable for external and internal doors. Maximum door weight 100 kg and door leaf width 1250 mm with standard arm installation.

FEATURES

- CE-certified with standard arm
- Adjustable closing force size EN 3-5 with standard arm according EN1154
- Separate adjusting valves for closing and latching speed
- Back check (BC) as a standard feature
- Delayed closing (DC) as an option
- Wide operating temperature range: -35°C... +45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Two pressure relief valves to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

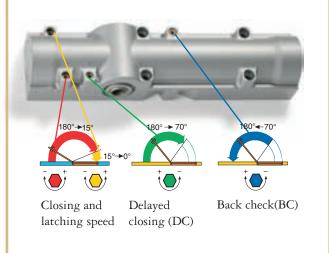


ADJUSTMENT

Back check (BC) as a standard feature and delayed closing (DC) as an adjustable optional feature

When ordering, please specify

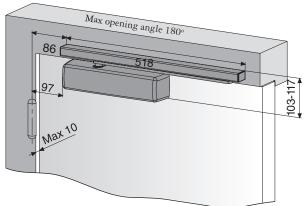
- Door closer model and colour e.g. DC335 (brass)
- Quantity
- Arm type and colour e.g. DC190 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC130

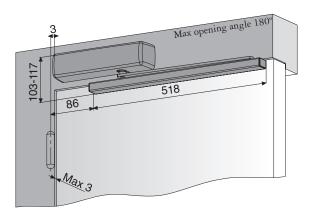


ABLOY® DC335 INSTALLATION

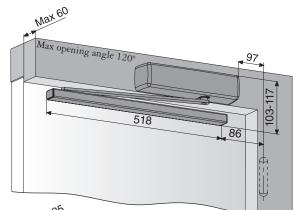
INSTALLATION WITH SLIDING ARM DC193, DC194

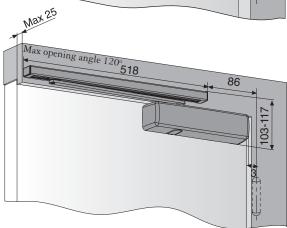
OPENING SIDE





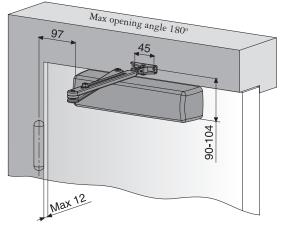
CLOSING SIDE

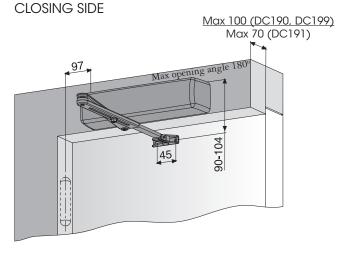




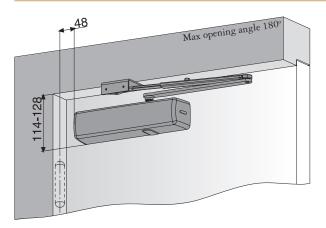
INSTALLATION WITH ARMS DC190, DC191, DC199

OPENING SIDE





INSTALLATION WITH PARALLEL ARM



ABLOY® DC240 DOOR CLOSER



ABLOY® DC240

APPLICATIONS

Suitable for external doors, large doors and internal doors exposed to conditions of pressure and heavy use. Maximum door weight 120 kg, and door leaf width 1400 mm with standard arm installation. When installed with sliding arm maximum door weight is 80 kg and door leaf width is 1100 mm.

FEATURES

- CE certified with standard and sliding arms
- Adjustable closing force size EN 2-6 with standard arm and EN1-4 with sliding arm according EN1154
- Separate adjusting valves for closing and latching speed
- Back check (BC) as a standard feature
- Delayed closing (DC) as an option
- Wide operating temperature range: -35°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Two pressure relief valves to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

When ordering, please specify

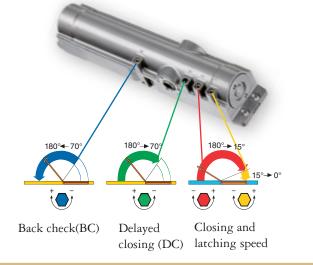
- Door closer model and colour e.g. DC240 (silver)
- Quantity
- Arm type and colour e.g. DC190 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC106.

DIMENSIONS



ADJUSTMENT

Back check (BC) as a standard feature and delayed closing (DC) is an adjustable optional feature.

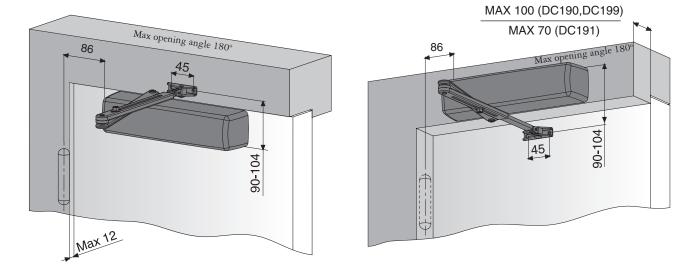


ABLOY® DC240 INSTALLATION

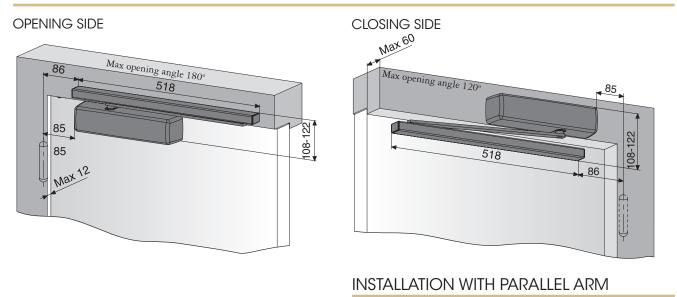
INSTALLATION WITH ARMS DC190, DC191 AND DC199

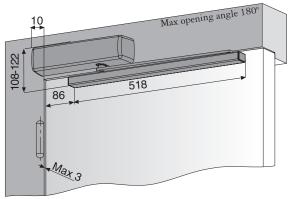
OPENING SIDE

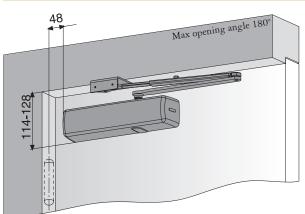
CLOSING SIDE



INSTALLATION WITH SLIDING ARMS DC193, DC194







ABLOY® DC247 DOOR CLOSER



DIMENSIONS

ABLOY® DC247

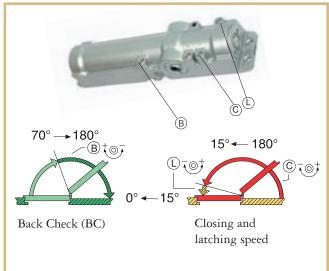
Suitable for use on internal and external doors but ideal solution for extremely heavy doors. Maximum door weight 160 kg and door leaf width 1600 mm with standard arm installation.

FEATURES

- CE certified with arm DC197
- Adjustable closing force size EN 5-7 according EN1154
- Separate adjusting valves for closing and latching speed
- Back Check (BC) as a standard feature
- Wide operating temperature range: -35°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Two pressure relief valves to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy



ADJUSTMENT



When ordering, please specify

- Door closer model and colour e.g. DC247 (silver)
- Quantity
- Arm type and colour e.g. DC197 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC106.

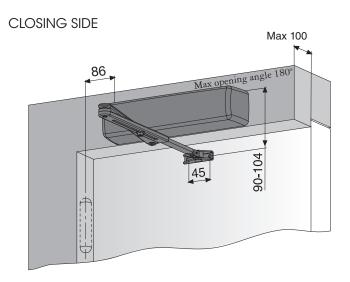
ABLOY® DC247 INSTALLATION



INSTALLATION WITH ARM DC197

OPENING SIDE

Max opening angle 180° 86 45 FOL-OG FOL-OG Max 12



ABLOY® DC330 DOOR CLOSER



ABLOY® DC330

Non-handed cam action door closer. Thanks to CAM it is light to open but still strong enough to close the door in every situation. **ABLOY®** DC330 can be adjusted to meet the requirements of the light opening resistance, for example the DDA (Disability Discrimination Act) in UK. Suitable for external and internal doors. Maximum door weight 80 kg and door leaf width 1100 mm with sliding arm installation.

FEATURES

- CE certified with sliding arm
- Adjustable closing force size EN 1-4 with sliding arm according EN1154
- Separate adjusting valves for closing and latching speed
- Wide operating temperature range: -15°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Pressure relief valve to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

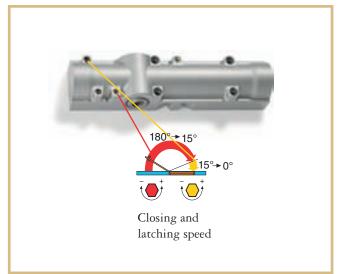
When ordering, please specify

- Door closer model and colour e.g. DC330 (silver)Quantity
- Arm type and colour e.g. DC193 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC130.

65 mm

ADJUSTMENT

DIMENSIONS



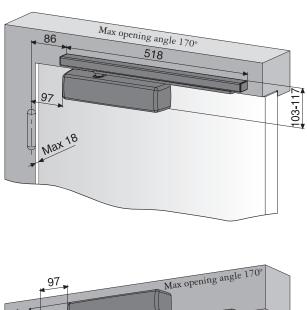
ABLOY® DC330 INSTALLATION

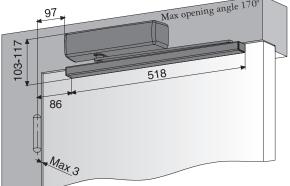


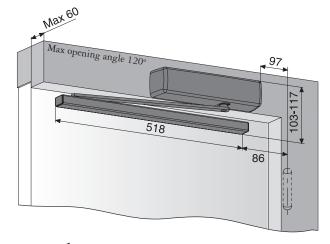
INSTALLATION WITH SLIDING ARM DC193, DC194

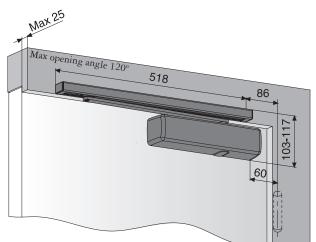
OPENING SIDE

CLOSING SIDE









ABLOY® DC250 DOOR CLOSER



DIMENSIONS

ABLOY® DC250

ABLOY® DC250 is non handed cam action door closer and therefore very easy to install. Thanks to the cam construction it is extremely light to open, yet in terms of closing force strong enough for heavy duty applications. Suitable for external and internal doors. For use with **ABLOY®** FD450 series fire door closing systems. Maximum door weight 120 kg and door leaf width 1400 mm with sliding arm installation.

FEATURES

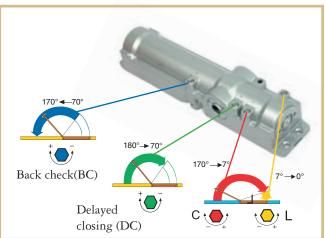
- CE certified with sliding arm
- Adjustable closing force size EN 1-6 with sliding arm according EN1154
- Separate adjusting valves for closing and latcing speed
- Back check (BC) as a standard feature
- Delayed closing (DC) as an option
- Wide operating temperature range: -15°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Easy adjustment of arm height (14 mm)
- Two pressure relief valves to protect against abuse
- Die-cast aluminium body manufactured from high performance silicon alloy

When ordering, please specify

- Door closer model and colour e.g. DC250 (silver)
- Quantity
- Arm type and colour e.g. DC193 silver
- The arm is not included in the delivery or price of the door closer.
- Mounting plate e.g. DC106.



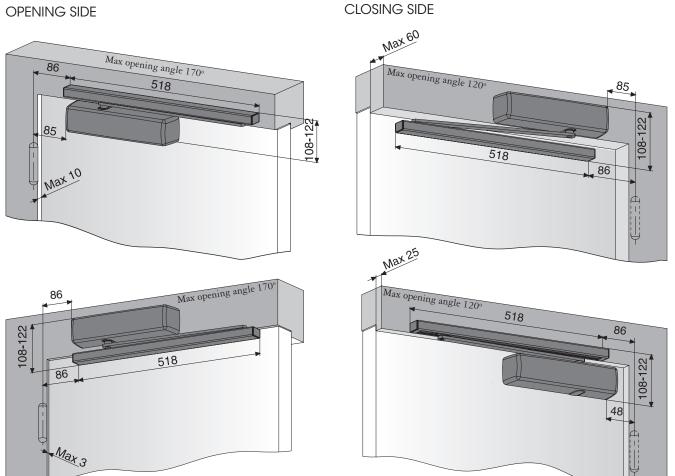
ADJUSTMENT



ABLOY® DC250 INSTALLATION



INSTALLATION WITH SLIDING ARMS DC193, DC194



OPENING SIDE

ABLOY[®] DC270 DOOR CLOSER

ABLOY® DC270

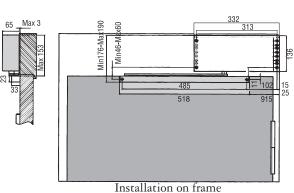
This closer is designed especially for ships and extremely heavy doors with sliding arm. It is double closer model where DC247 and DC250 are installed to the same mounting plate under same metal cover.

FEATURES

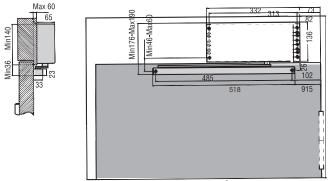
- Adjustable closing force size EN 6-7 with sliding arm according EN1154
- Separate adjustment for closing and latching speed using only adjusting valves of DC247
- Back check (BC) as a standard feature
- Wide operating temperature range: -15°C...+45°C
- Adjustable latching and back check starting angle by grooved spindle
- Die-cast aluminium body manufactured from high performance silicon alloy
- Fulfill shipbuilders requirements when door is tilted even 3,5 degrees

INSTALLATION

OPENING SIDE



CLOSING SIDE

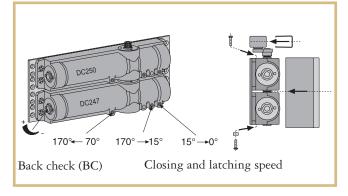


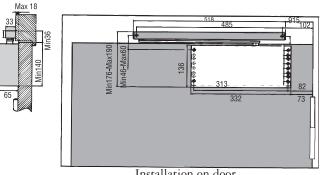
Installation on frame

DIMENSIONS



ADJUSTMENT





Installation on door

STANDARDS AND FEATURES

CLASSIFICATION OF **ABLOY**[®] DOOR CLOSERS ACCORDING TO EUROPEAN STANDARD EN1154

	DC210	DC215	DC335	DC240	DC247	DC330	DC250	DC270
EN1						•	•	
EN2	•	•		•		•	•	
EN3	•	•	•	•		•	•	
EN4		•	•	•		•	•	
EN5			•	•	•		•	
EN6				•	•		•	•
EN7					•			•

When using sliding arm with door closer DC335 and DC240, the closing strength of the closer reduces by two classes.(e.g. DC240 and DC194 = EN1-4).

FEATURES

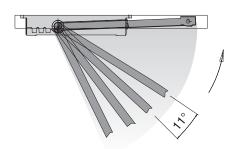
	DC210	DC215	DC335	DC240	DC247	DC330	DC250	DC270
BC			•	•	•		•	
DC			•	•			•	

• Option • Standard

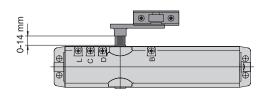
RECOMMENDED DOOR SIZES ACCORDING EN1154

Door Closer Size	Recommended max. door leaf width mm	Door leaf mass Kg	
EN1	750	20	
EN2	850	40	
EN3	950	60	
EN4	1100	80	
EN5	1250	100	
EN6	1400	120	
EN7	1600	160	

ABLOY® DOOR CLOSER ARM



The starting angle for back check, delayed closing and latching speed can be adjusted by selecting the desired arm position in relation to the grooved spindle. Each groove represents an angle of 11 degrees.



The arm height can be adjusted (max 14 mm) by moving the grooved spindle in a vertical direction.

ARMS



Standard arm DC190 (removable joint) Standard arm DC199 (locked joint) Standard arm DC197 (hardened joint)



Hold-open arm DC191

Sliding arm DC193

Sliding arm DC194



Parallel arm bracket for DC190, DC199

410178 Silver 410179 Brass 410181 White

	DC210	DC215	DC335	DC240	DC247	DC330	DC250	DC270
DC190			•	•				
DC191			•	•				
DC199			•	•				
DC193			•	•		•	•	•
DC194			•	•		•	•	•
DC197					•			

20

ABLOY® DOOR CLOSER ACCESSORIES

HOLD-OPEN DEVICE AND OPENING DAMPER

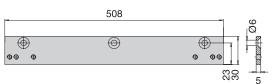


- Hold-open device DC152
- Adjustable hold-open force
- Max. hold-open angle ~120°



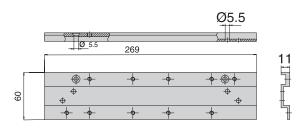
- Opening damper DC153
- Max. damping angle ~ 110°
- Designed to brake the door before hitting the door stopper
- Does not replace the mechanical door stopper

MOUNTING PLATES FOR SLIDING ARMS

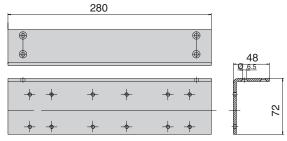


Straight mounting plate DC103

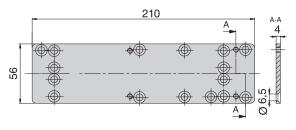
MOUNTING PLATES FOR DOOR CLOSERS DC335, DC330



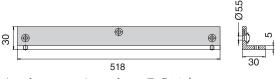
Mountig plate for profiledoors DC102



Angle mounting plate DC113

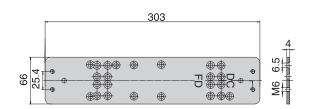


Mounting plate DC130

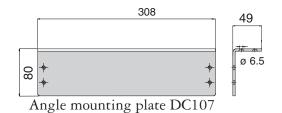


Angle mounting plate DC104

DC240, DC247, DC250



Mounting plate DC106



ABLOY® FIRE DOOR CLOSING SYSTEMS

ABLOY® FD440 ELECTROHYDRAULIC HOLD OPEN DEVICE

APPLICATIONS

When using free swing arms **ABLOY**[®] FD494 or FD499, **ABLOY**[®] FD440 is particularly useful for applications where the door is in frequent use and the opening resistance of a door closer may be too heavy, like kindergardens, schools, retirement homes and day centres. Single doors with standard arm the maximum door leaf width 1400mm and weight 120 kg.

FEATURES

- CE-certified
- Based on ABLOY® DC240 door closer



ABLOY[®] FD450 ELECTROMECHANICAL HOLD OPEN DEVICE

APPLICATIONS

Single doors of maximum door leaf width is 1250 mm.

FEATURES

- CE-certified
- Electromechanical hold-open device for single doors
- Recommended to use with DC250 door closer



ABLOY® FD440

With free swing arms the first opening is like with a normal door closer. The door is opened to the desired angle to determine the opening angle for later use (min. approx. 70°). After the first opening the free swing function enables the door to be opened and closed freely, without any resistance. When the power is switched off, i.e. when the smoke detectors react to smoke, the door closes always regardless of the door position. Current consumption 90 mA (24VDC).

ABLOY® FD450

The door is held open by hold open device in the selected angle. When the power is switched off, e.g. when smoke detectors react to smoke, the door closes. Hold open angle for active door can be adjusted from 80° to 130° . Power consumption 1 x 60 mA.



Closing forces according to EN1155: With arms DC199 and FD499 EN 2-6 With arms DC194 and FD494 EN 1-4



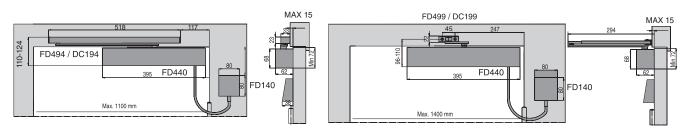
ABLOY® FIRE DOOR INSTALLATION

ABLOY® FD440

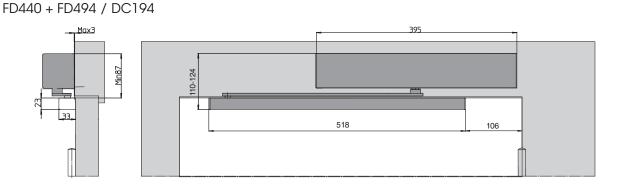
OPENING SIDE INSTALLATION ON DOOR

FD440 + FD494 / DC194 + FD140

FD440 + FD499/DC199 + FD140

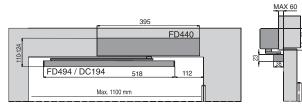


OPENING SIDE INSTALLATION ON FRAME

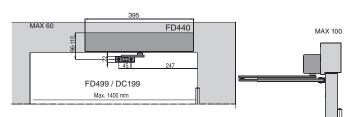


CLOSING SIDE INSTALLATION ON FRAME

FD440 + FD494 / DC194



FD440 + FD499/DC199

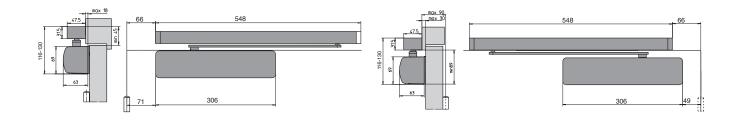


ABLOY® FD450

OPENING AND CLOSING SIDE INSTALLATION ON DOOR

OPENING SIDE

CLOSING SIDE



ABLOY® FIRE DOOR CLOSING SYSTEMS



ABLOY® FD451 MECHANICAL DOOR COORDINATOR

APPLICATIONS

Double doors with maximum door width of 1250 – 2500 mm.

FEATURES

- CE-certified
- Can be used with wall magnets
- Recommended to use with 2 pcs DC250 door closer

ACCESSORIES

Support brackets available to simplify installation.

ABLOY® FD454 ELECTROMECHANICAL HOLD OPEN DEVICE

APPLICATIONS

Double doors with maximum door width of 1250 - 2500 mm.

FEATURES

- CE-certified
- Electromechanical hold open device for active door or hold open for both doors with hold open device in inactive door and coordinator in active door
- Supplied with coordinator and arms
- Recommended to use with 2 pcs DC250 door closer

ABLOY® FD452 ELECTROMECHANICAL HOLD OPEN DEVICE

APPLICATIONS

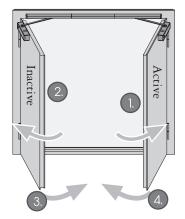
Double doors with maximum door width of 1250 – 2500 mm.

FEATURES

- CE-certified
- Two electromechanical hold open devices
- Supplied with coordinator and arms
- Recommended to use with 2 pcs DC250 door closer

ABLOY® FD451 MECHANICAL DOOR COORDINATOR

During the day the doors are normally closed and the active door is used as passage door. If both doors need to stay open, the active door must be opened first (1), after which the inactive door can be opened (2). The co-ordinator holds the active door in the desired angle during the time the inactive door is open. The inactive door stays open only if someone holds it or a wall magnet is used. When the inactive door is closed (3), the active door starts to close (4).



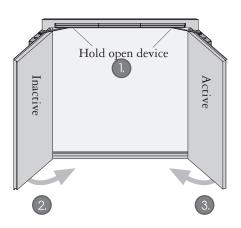
ABLOY® FD454 HOLD OPEN FOR ACTIVE DOOR

The inactive door is normally closed (1) and remains open only if someone holds it open. When the power is switched off, e.g. when smoke detectors react to smoke, the active door closes. Hold open angle for active door can be adjusted from 80° to 130° . Power consumption 1 x 60 mA.

The above solutions can be installed on the closing side of the door with the help of a small accessory set **ABLOY**[®] FD100 (see page 15).

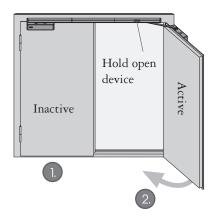
ABLOY® FD452 TWO ELECTROMECHANICAL HOLD OPEN DEVICES

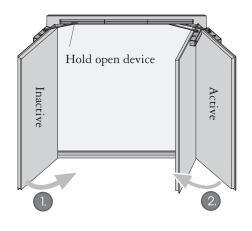
The doors are held open by the hold-open devices in the selected angle (1). When the power is switched off, e.g. when the smoke detectors react to smoke, the doors close so that the inactive door closes first (2), and when it is completely closed the active door starts to close (3). Hold open angle for both doors can be adjusted from 80° to 130° . Power consumption 2 x 60 mA.



ABLOY[®] FD454 HOLD OPEN FOR BOTH DOORS

During the day both doors are normally held open. The inactive door is held open by the hold open device in the angle determined during the installation. The active door is held open by the coordinator. The hold open angle of the active door is adjustable (up to 150°). When the power is switched off, e.g. when the smoke detectors react to smoke, the passive door closes first (1), and when it is completely closed, the active door starts to close (2). Power consumption 1 x 60 mA.



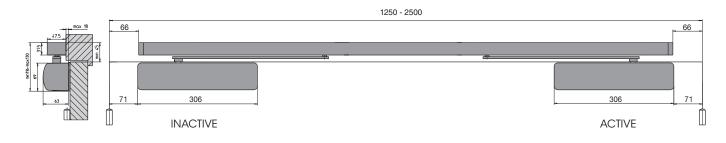


ABLOY® FD451 - FD454 INSTALLATION

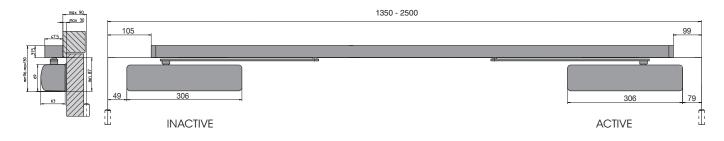


ABLOY® FD451 - FD454

OPENING SIDE



CLOSING SIDE



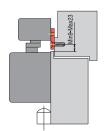
FD100 is needed for passive door in closing side installation. FD100 must be specified when ordering.

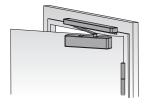
ABLOY® ACCESSORIES

ABLOY® DC103

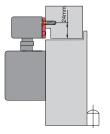
ABLOY® DC105 (+ DC109)

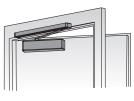
Min128.5-Max142,5





OPENING SIDE



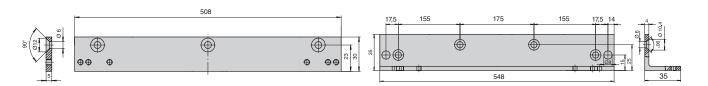


CLOSING SIDE



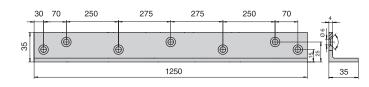
CLOSING SIDE

ACCESSORIES



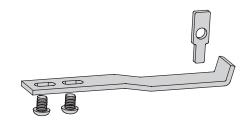
Straight mounting plate **ABLOY®** DC103 for single or double doors

Angle mounting plate **ABLOY®** DC105 for single or double doors



Angle mounting plate $\ensuremath{\mathsf{ABLOY}}\xspace^{\ensuremath{\mathbb{B}}}\xspace$ DC109 for double doors

It is recommended to use mounting plates.



Accessory set **ABLOY**[®] FD100 for closing side installation in double doors

NOTE: is not included in standard delivery, it must be specified separately.

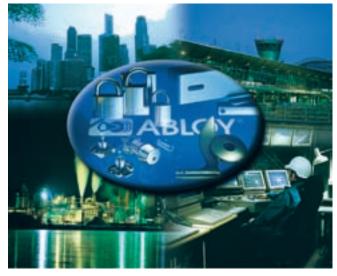
1

ABLOY® - the sign for security



The quality and environmental systems used by Abloy Oy guarantee that customers can be certain of **ABLOY®** quality in every field. We received our first Quality System Certificate - SFS-EN ISO 9001 - in 1989. Just eight years later, Abloy Oy was one of the first companies in Finland to be granted an SFS-EN-ISO 14001 Environmental System Certificate.

Our products are designed and manufactured not only to provide high levels of security, but also to be reliable, user-friendly and aesthetically pleasing. **ABLOY**^{(\oplus)} is your sign for security.



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The unique **ABLOV**[®] detainer disc cylinder mechanism has several advantages over conventional locking mechanisms. Ever since its invention in 1907, it has been a symbol of high security and superior performance.

Our range consists of electromechanical locks, cam locks, padlocks, office furniture locks, rim locks, lock cases, cylinders for different types of mortice locks, door closers, door automatics and architectural hardware. **ABLOY**[®] locking solutions for every application are available from our world-wide network of distributors.

Customer-oriented development, combined with our long experience and extensive security expertise, mean that **ABLOY**[®] security solutions employ the very latest technology to meet your needs.



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Abloy Oy is one of the leading manufacturers of locks, locking systems and architectural hardware and the world's leading developer of products in the field of electromechanical locking technology.

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