



ASSA ABLOY Door Closers for Every Application

ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions



The benefits of ASSA ABLOY Door Closers

- The largest global manufacturer of door closers
- A new and extensive range
- Designed to meet the needs of the UK market
- Competitively priced
- Technically advanced
- Easy installation
- Minimal maintenance
- Reliable, long-lasting performance
- Guaranteed for 10 years (mechanical) and 2 years (electromechanical)

Door Closers For Every Application

ASSA ABLOY door closers are suitable for a wide range of applications from private to commercial and public sectors, both light and heavy.

Their modular configuration simplifies planning, whilst the simple assembly features and intelligent adjustments make for easy installation.

For diverse applications

This series of door closers is a collective development by the ASSA ABLOY Group and offers a coordinated design across a broad product range including rack and pinion, CAM-motion and electro hydraulic door closer solutions. The uniform design gives rooms and buildings a consistent aesthetic appeal, and is available in a wide range of RAL colours.

One for all, all in one.

Every ASSA ABLOY door closer can be mounted on the hinge or non-hinge side of the door making them suitable for any door application, thereby considerably reducing effort in planning and procurement. The fixing application therefore need not be factored into the scheduling process as it can quickly be changed on the door at short notice, facilitating flexible planning.

Tested for ultimate performance

When designing products to protect from the elements, from harm and from intruders, manufacturers and designers need to ensure that their prototypes and manufactured samples perform.

Equality Act

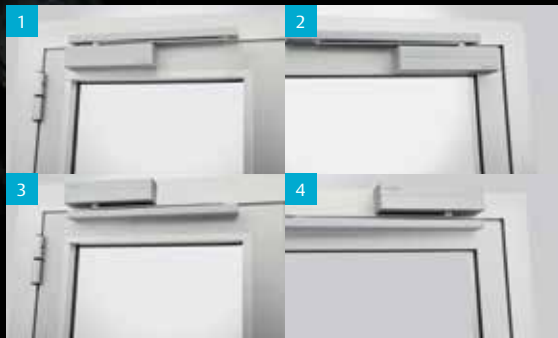
ASSA ABLOY CAM-motion door closers assist architects in helping their clients fulfil the duties under the Equality Act 2010, helping specifically to meet with BS8300 and Approved Document M guidelines.

Guide rail door closers

ASSA ABLOY's modular system enables CAM-motion door closers to be combined with various guide rails for virtually any application. Guide rail door closers harmonise with the door's appearance and offer a wide range of possibilities to planners and architects.

Additionally, guide rail door closers have less projection and are close-fitting to the door and frame reducing the risk of abuse or misuse. With ASSA ABLOY, low opening forces and guide rail door closers do not conflict. CAM-motion technology reduces counter-pressure when opening the door, making it considerably easier to handle in comparison with conventional guide rail door closers.

- 1 Standard installation on hinge side
- 2 Standard installation non hinge side
- 3 Frame mounting on hinge side
- 4 Frame mounting non hinge side



Optional concealed mounting plate



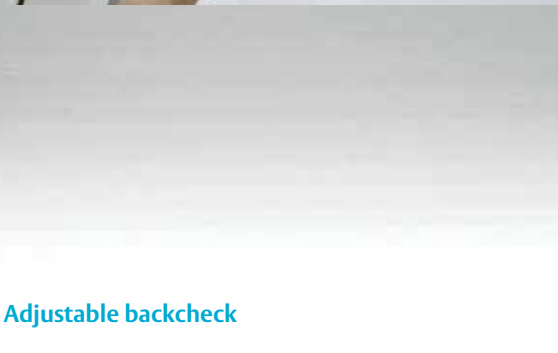
Height adjustable pinion



Adjustable backcheck



Guide rail height adjustable



Easy to install. Easy to use. Easy to maintain.

CE

Installation and adjustments made easy

Installation tolerances can be compensated for without special components thanks to the height adjustable pinion system. Height compensation of up to 14mm covers most construction situations permitting the arm height to be adjusted quickly and easily. Precise closing functions can then be set up. All products include fixing templates for quick and easy installation.

A door is also exposed to varying stresses and strains on a daily basis: operation by its users, temperature fluctuations, air humidity etc, all have an impact. As a result, the hinge can sometimes wear causing the door to drop slightly which can impact on the doors performance. Door closers from ASSA ABLOY can easily be adjusted to compensate for this and other changes to the door after initial installation.

Safety and comfort guaranteed

With ASSA ABLOY door closers, accessibility and fire door requirements need not conflict. CAM-motion door closers are suitable for use on internal and external doors with the DC700A being particularly suited for doors exposed to heavy use or high wind pressure. ASSA ABLOY CAM-motion door closers are appropriate for use in buildings housing elderly, young or disabled people because of the ultra-low opening forces they provide.

When fitted to suitable doorsets, the door closers, due to the ease of accessibility, will assist in fulfilling duties required under the Equality Act (EA), specifically BS 8300 and Approved Document M (ADM) of the Building Regulations. ASSA ABLOY door closers make high frequency doors comfortable and easy to pass through, in schools, hospitals, retirement homes, public buildings and offices.

Safety in case of emergency

Smoke and fire protection doors may only be equipped with door closer systems which have been approved to EN 1154, EN 1155 and/or EN 1158 and CE marked accordingly. You'll be safe with ASSA ABLOY, as our door closers meet national and international regulatory standards.





CAM-motion door closers

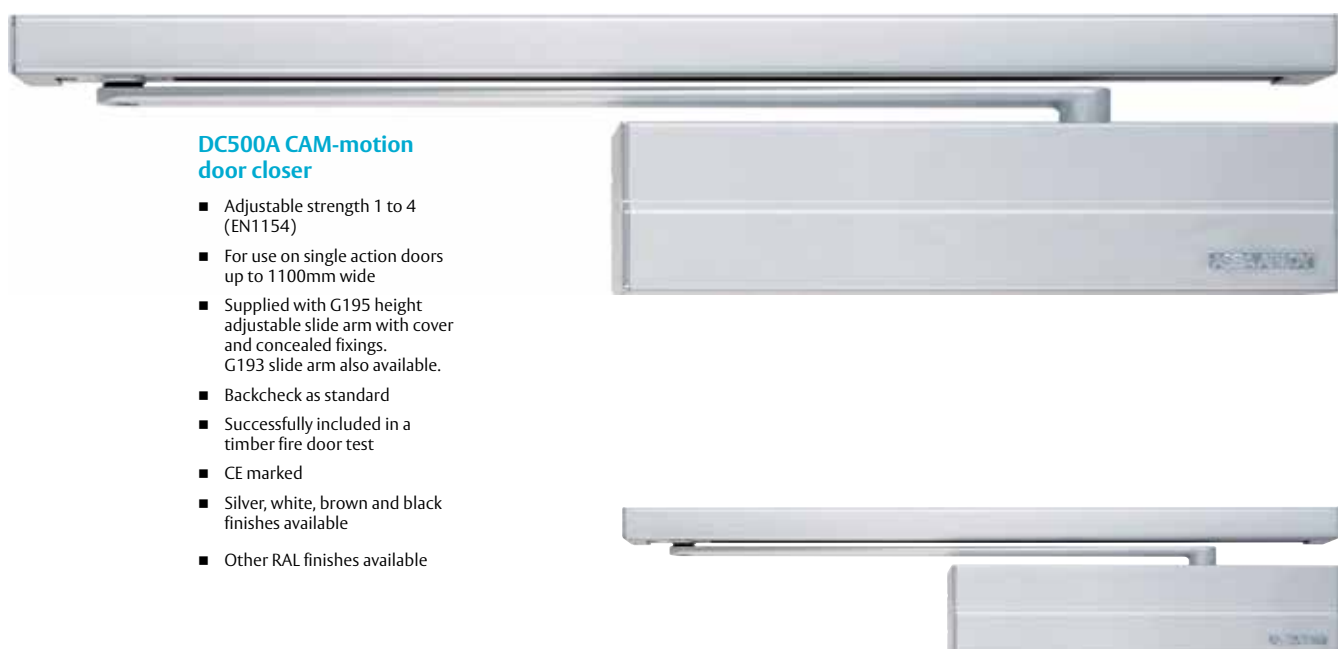


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CAM-motion door closers

ASSA ABLOY CAM-motion door closers are highly flexible and offer a high degree of convenience.

Mounted directly on the door or frame, the CAM-motion ensures the door is light to open while retaining its closing power, making these products an ideal solution for children, the elderly and people with disabilities.



DC500A CAM-motion door closer

- Adjustable strength 1 to 4 (EN1154)
- For use on single action doors up to 1100mm wide
- Supplied with G195 height adjustable slide arm with cover and concealed fixings. G193 slide arm also available.
- Backcheck as standard
- Successfully included in a timber fire door test
- CE marked
- Silver, white, brown and black finishes available
- Other RAL finishes available

- Easier door opening and improved accessibility due to CAM-motion technology
- Extensive range of uses: Fire and smoke protection doors as well as standard doors
- Modern, compact design
- Fulfils barrier-free building requirements (Equality Act)
- Quick and easy installation
- Quickly and easily adjustable
- Suitable for left and right hand doors in both door and frame mounted applications

DC700A CAM-motion door closer

- Adjustable strength EN 3 to 6 (EN1154)
- Backcheck as standard
- For use on single action doors up to 1400mm wide
- Supplied with G195 height adjustable slide arm with cover and concealed fixing. G193 slide arm also available.
- Successfully included in a timber fire door test
- CE marked
- Silver, white, brown and black finishes available
- Other RAL finishes available



Rack & Pinion door closers



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Rack & Pinion door closers

ASSA ABLOY offers a full range of Rack & Pinion door closers which are ideal for a wide range of commercial applications.



DC300A Rack & Pinion door closer

- Adjustable strength 3 to 6 (EN1154)
- Supplied with L190 height adjustable link arm and A154 parallel arm bracket
- Backcheck as standard
- For use on single action doors from 950mm to 1400mm
- Successfully included in a timber fire door test
- CE marked
- Standard silver, white, brown and black finishes

- Extensive range of uses: Fire and smoke protection doors as well as standard doors
- Quick and easy installation
- Quickly and easily adjustable
- Suitable for left and right hand doors in both door and frame mounted applications
- Adjustable to nearly all door and frame types
- Constant closing action largely unaffected by fluctuation in temperature
- Complimentary accessories available for the whole range



DC200A Rack & Pinion door closer

- Adjustable strength EN 2 to 4 (EN1154)
- Supplied with L190 height adjustable link arm and A154 parallel arm bracket
- Backcheck as standard
- For use on single doors up to 1100mm wide
- Successfully included in a timber fire door test
- CE marked
- Standard silver, white, brown and black finishes
- Other RAL finishes available



DC340A Rack & Pinion door closer

- Adjustable strength EN 2 to 6 (EN1154)
- Backcheck as standard
- Optional delayed closing available
- For use on single action doors up to 1400mm wide
- Used with height adjustable L190 link arm
- Successfully included in a timber fire door test
- CE marked
- Silver, white, brown and black finishes
- Other RAL finishes available



Rack & Pinion door closers



ASSA ABLOY

Rack & Pinion door closers



DC340T Rack & Pinion slide arm door closer

- Adjustable strength EN 1 to 4
- Backcheck as standard
- Optional delayed closing available
- For use on single action doors up to 1100mm wide
- Supplied with G195 height adjustable slide arm with cover and concealed fixings. G193 slide arm also available.
- Successfully included in a timber fire door test
- CE marked
- Silver, white, brown and black finishes
- Other RAL finishes available



DC347A Rack & Pinion door closer

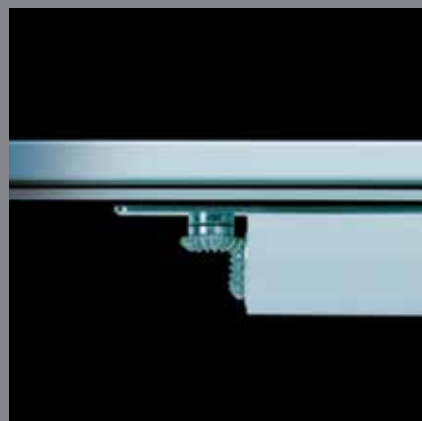
- Extra heavy duty door closer
- Adjustable strength EN 5 to 7
- Backcheck as standard
- Extra strong L197 arm for larger doors up to 1600mm wide
- Successfully included in a timber fire door test
- CE marked
- Silver, white, brown and black finishes
- Other RAL finishes available

DC640A & DC640T electro mechanical hold open and free swing door closer

- Two options:
- DC640 adjustable EN size 3 to 6 hold open and free swing functionality utilising standard link arm
- DC640T adjustable EN size 3 to 4 hold open and free swing functionality utilising sliding arm
- Backcheck as standard
- For use on doors between 950mm and 1400mm
- Successfully included in a timber fire door test
- Power rating 24VDC, 90mA
- CE marked
- Available in silver finish only



Concealed CAM-motion door closers



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Concealed CAM-motion door closers

ASSA ABLOY offers a full range of Concealed CAM-motion closers. Concealed closers are designed to provide a controlled closing of single or double doors and offer preferable aesthetic advantages.

With the majority of the door closer being hidden from sight, concealed door closers can also help to reduce vandalism and abuse.



DC840A concealed CAM-motion door closer

- Efficient design ensures easy door opening with minimal physical force
- Adjustable strength EN 1 to 4
- Supplied with G892 slide arm
- Built in backcheck as standard
- Width dimension 32mm, suitable for 44mm thick doors
- For use on single action doors up to 1100mm wide
- 4mm and 8mm extension spindle sets for height adjustment
- CE marked
- Silver finish

- Easier door opening and improved accessibility due to CAM-motion technology
- Extensive range of uses: Fire and smoke protection doors as well as standard doors
- Modern, compact design
- Fulfils barrier-free building requirements (Equality Act)
- Quick and easy installation
- Quickly and easily adjustable
- Suitable for left and right hand doors in both door and frame mounted applications

DC860A concealed CAM-motion door closer

- Efficient design ensures easy door opening with minimal physical force
- Adjustable strength EN 1 to 5
- G892 slide arm with optional hold open device and opening damper also available
- Built in backcheck as standard
- Width dimension 40mm, suitable for 54mm thick doors
- For use on single action doors up to 1250mm wide
- 4mm and 8mm extension spindle sets for height adjustment
- CE marked
- Silver finish



Fire Door Systems



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Fire Door Systems

ASSA ABLOY offer electro-mechanical hold open devices for single and double doors using CAM-motion technology. Designed to hold the doors open at the desired angle until the power is cut.



The DC700 with G461 fire door system

- Electro-mechanical co-ordinator double doors to EN1158
- Door closer with CAM-motion
- The co-ordinator holds the active door open when the passive door has been opened. The active door will not close until the passive door has been closed.
- For fire and smoke protection doors up to 2800mm
- CE marked
- Slim design
- Silver finish
- Door closer bodies need to be ordered separately.

The DC700 with G462 fire door system

- Two electro-mechanical hold open devices for double doors to EN1155 and EN1158
- Door closer with CAM-motion
- A system which holds the doors open to the desired angle until the power is cut, i.e. activation of smoke detector
- For fire and smoke protection doors up to 2800mm
- CE marked
- Slim design
- Silver finish

The DC700 with G464 fire door system

- Two options:
 - Electro-mechanical hold open device for double doors in active door to EN1155 and EN1158
Passive door remains closed.
Hold open in the active door can be adjusted between 70° to 130°
 - Electro-mechanical hold open device for double doors in passive door to EN1155 and EN1158
The hold open angle of the passive door can be adjusted in the installation from 70° to 130°.
The active door is then held open by a built in mechanical co-ordinator
- Door closer with CAM-motion
- For fire and smoke protection doors up to 2800mm
- Slim design
- Silver finish



The DC700 with G460 fire door system

- Slim design
- CE marked
- Electro-mechanical hold open device for single doors to EN1155
- Door closer with CAM-motion
- Hold open angle continuously adjustable between 70° to 130°
- Low consumption; maximum current is 60mA per hold open device
- For fire and smoke protection doors up to 1400mm
- Silver finish

EN 1154

Controlled Door Closing Devices

The table below is an excerpt from the EN1154 European Door Closer Standard and details the recommended door widths and weights for controlled door closing devices.

Door Closer Power Size	Recommended Door Leaf Width mm (max)	Door Mass Kg
1	750	20
2	850	40
3	950	60
4	1,100	80
5	1,250	100
6	1,400	120
7	1,600	160

CAM-motion Torque Curve Performance

The graphs opposite demonstrate the torque curve capabilities of the ASSA ABLOY CAM-motion door closers. The data was taken from the official graphs provided by MPA independent test laboratory, with an example of an original graph shown below. Each door closer was set to power size 3 and the opening and closing torque recorded during the opening and closing cycles.

As can be seen, the opening force decreases rapidly as the door opens enabling children, the elderly and people with disabilities, to more easily overcome the closing moment of the door, and improve accessibility.

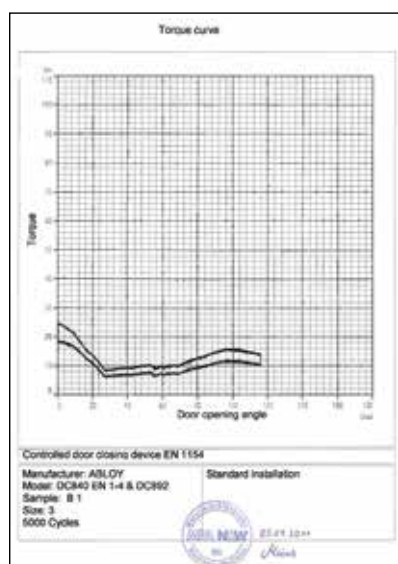
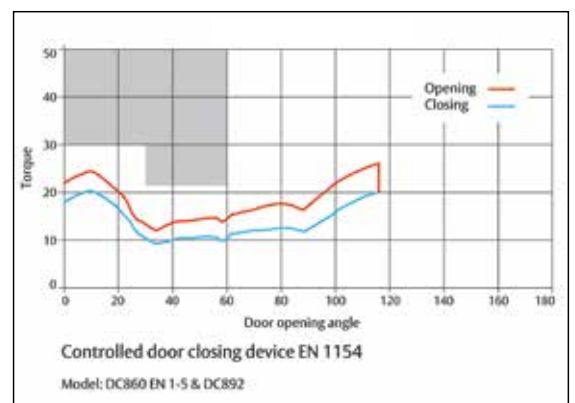
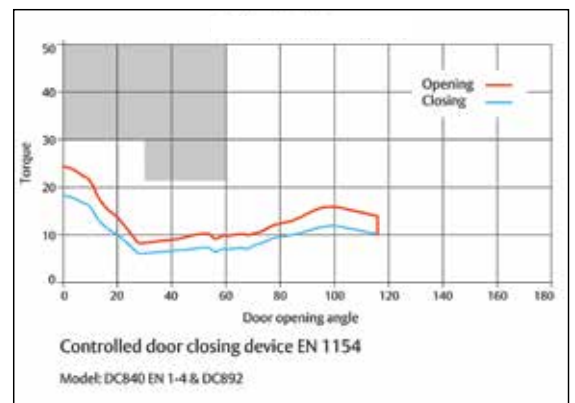
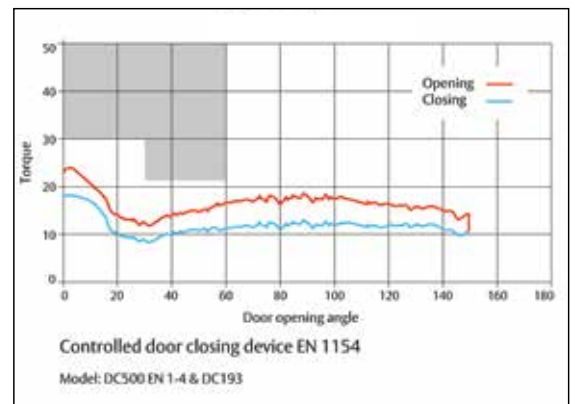
To further emphasise this, the shaded portion of the graph indicates the maximum opening force recommended under BS8300.

"... A door closer must produce an opening force of below 30N between 0° and 30° and below 22.5N between 30° and 60°..."

Hence, specifiers and building owner's responsibilities are met, and end user experience of the building environment is enhanced.

However, this may be only half the story. If the door is a fire door, then according to BS EN 1154 the minimum door closer power setting must be 3, and the minimum closing torque requirement is 18Nm. Again, as can be seen, the ASSA ABLOY Cam-motion door closers comply with this requirement, ensuring that the door sits firmly in the frame preventing the spread of fire and smoke.

It is the superior design and engineering excellence of ASSA ABLOY's high efficiency CAM-motion door closers that permit the co-existence of improved door opening for accessibility, whilst retaining reliable door closing for fire and smoke control.



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

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