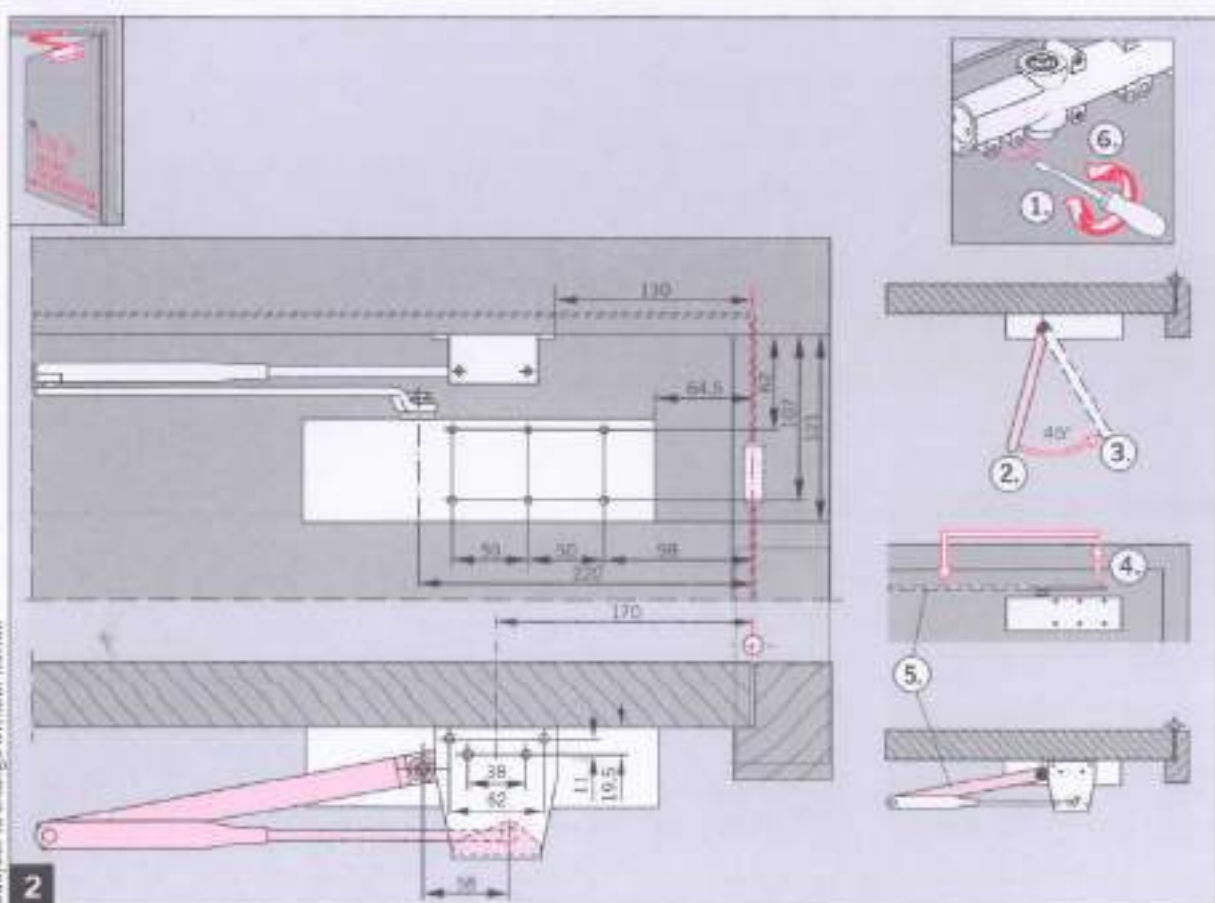
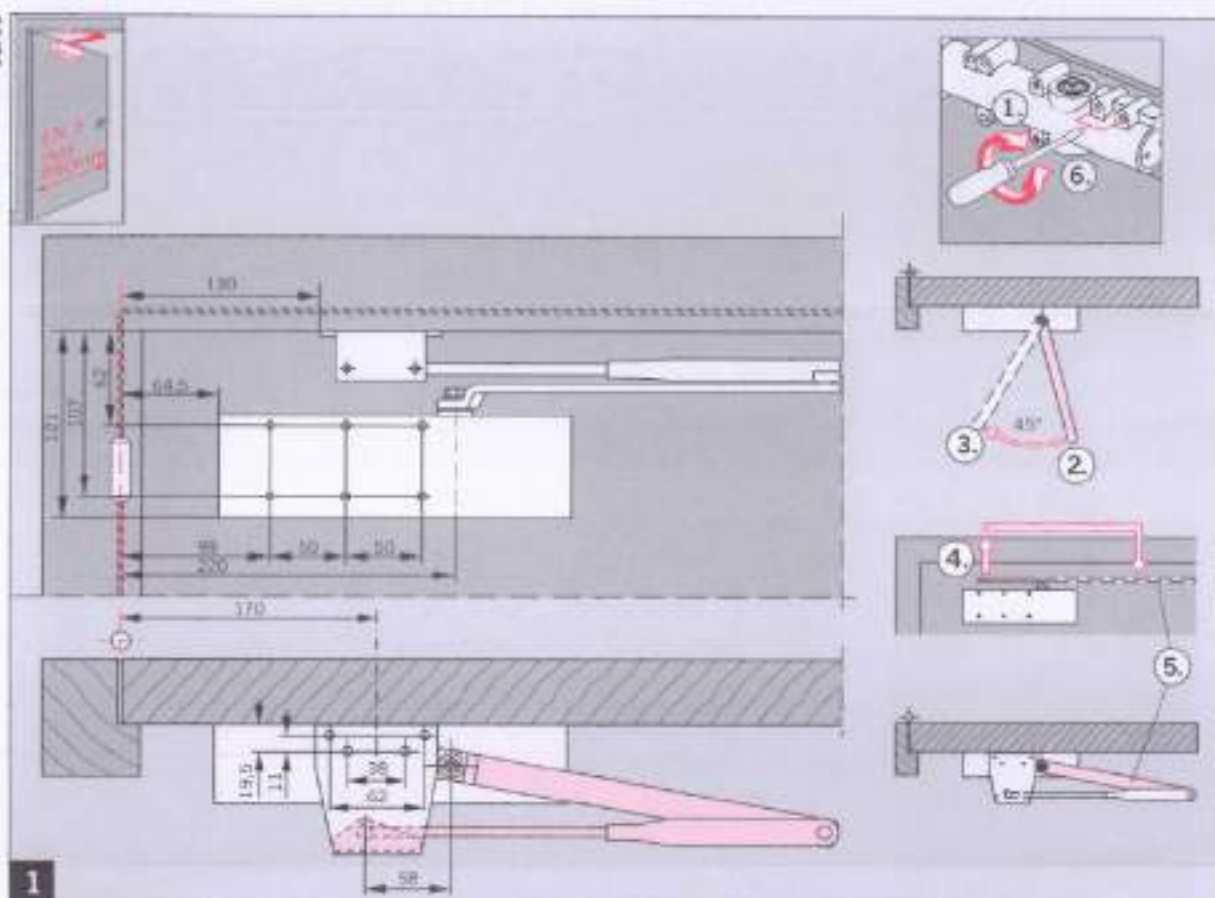
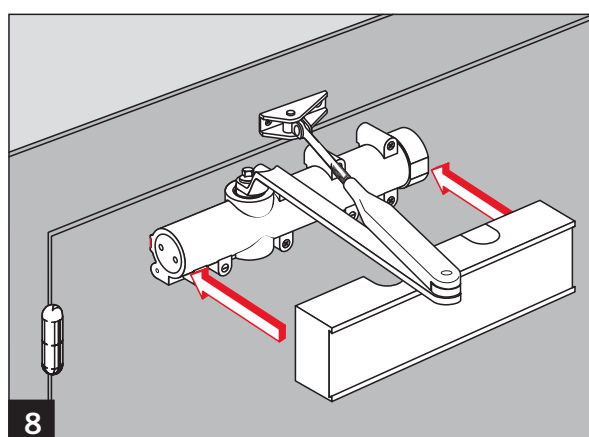
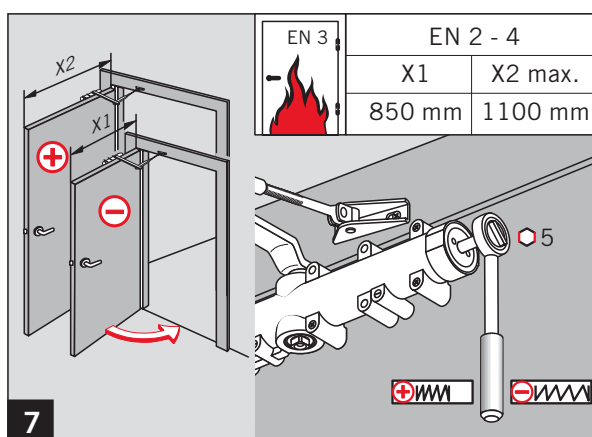
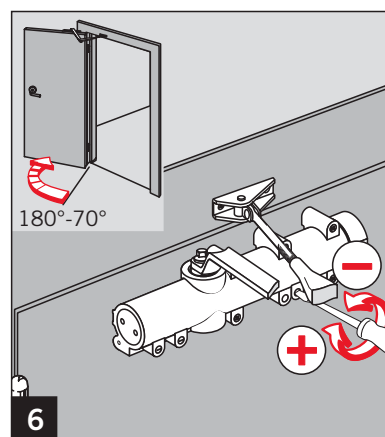
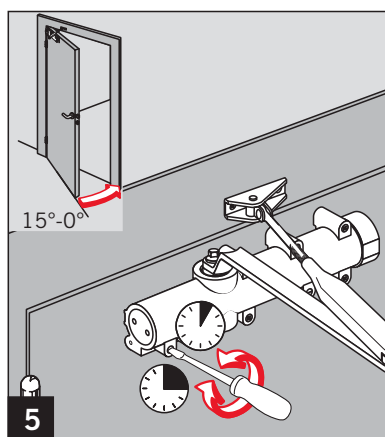
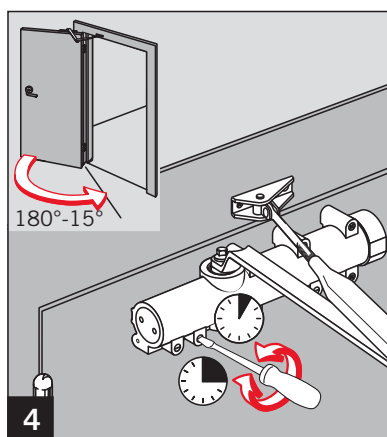
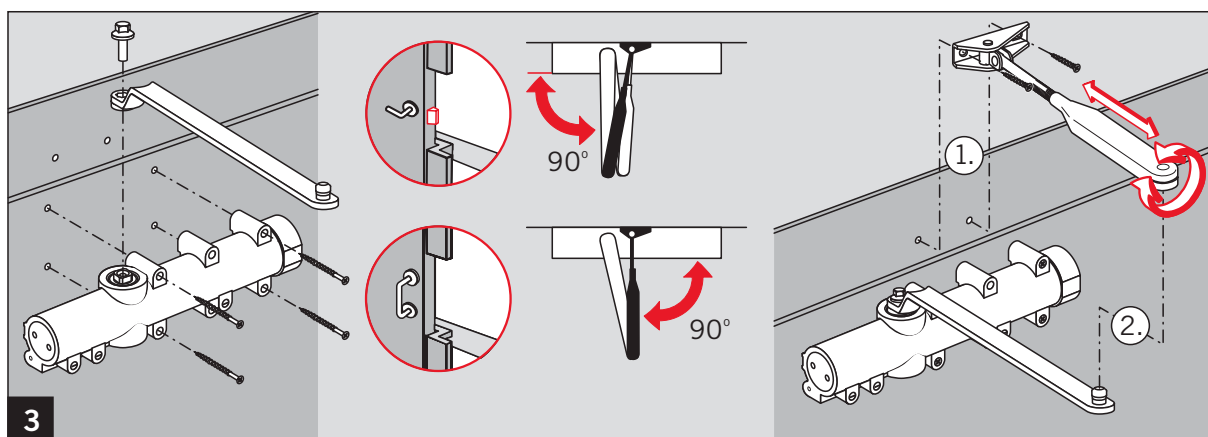
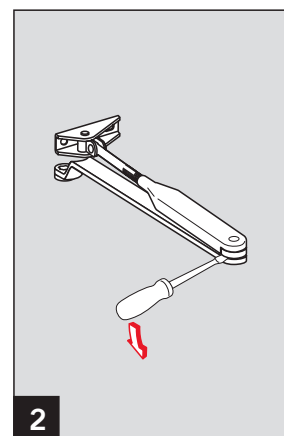
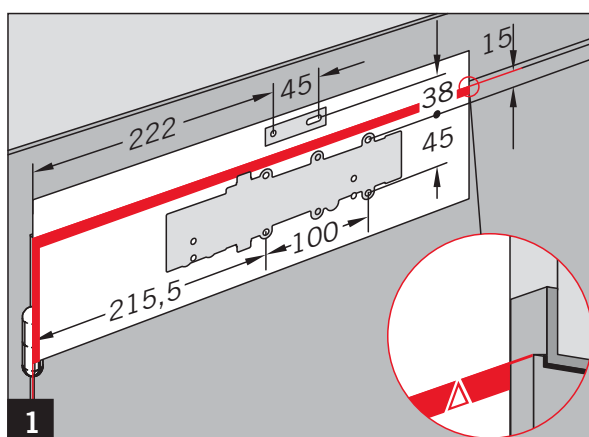
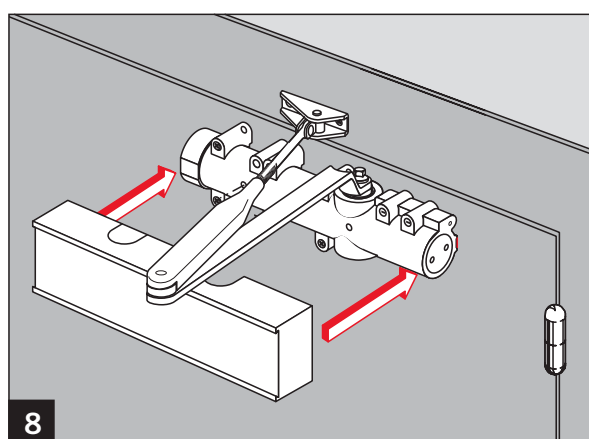
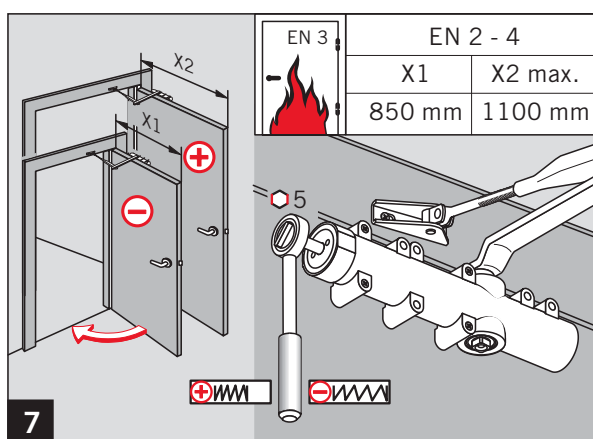
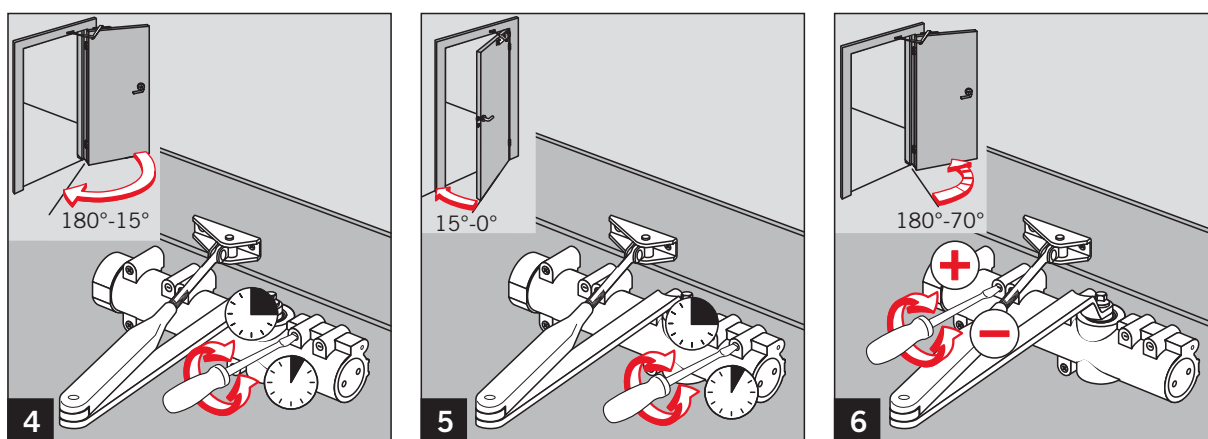
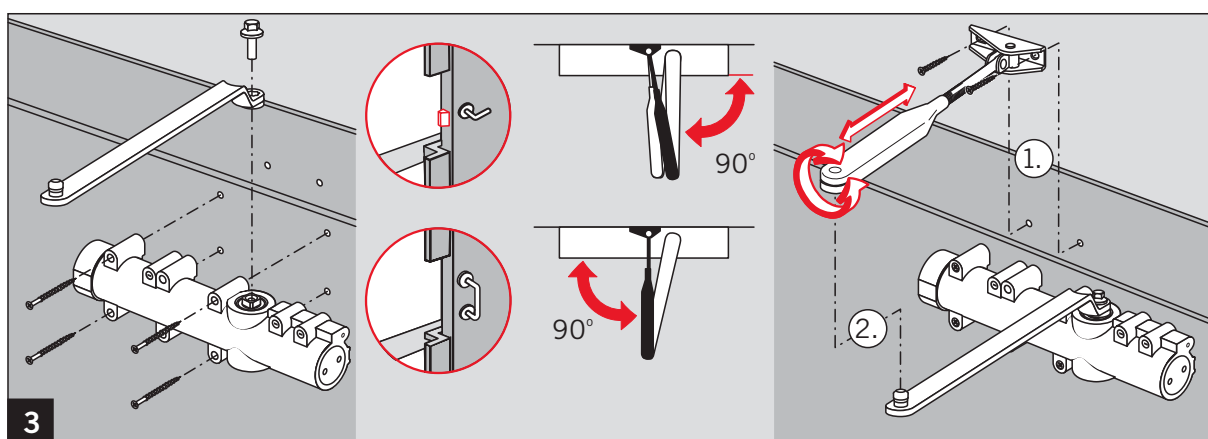
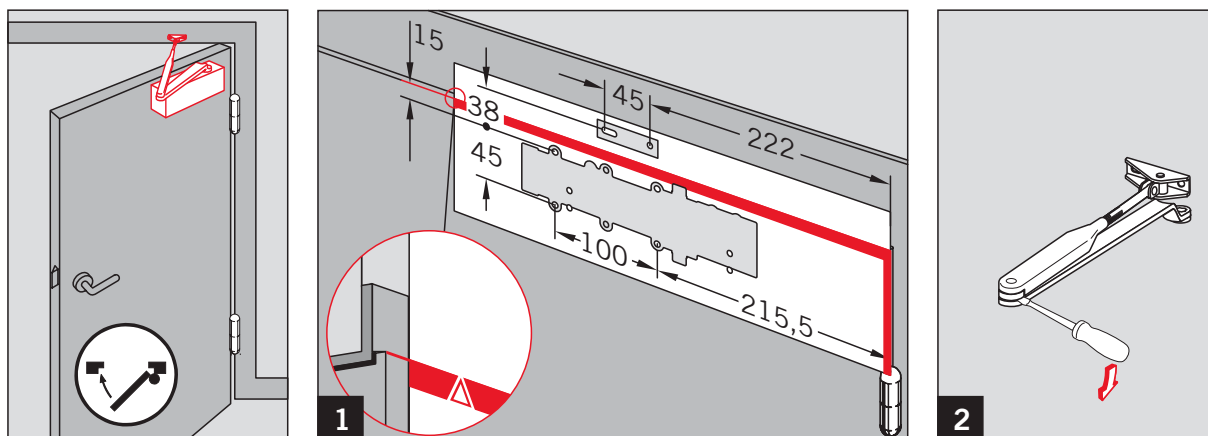


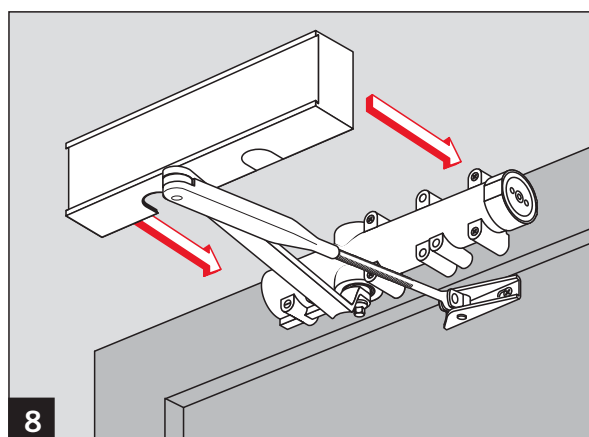
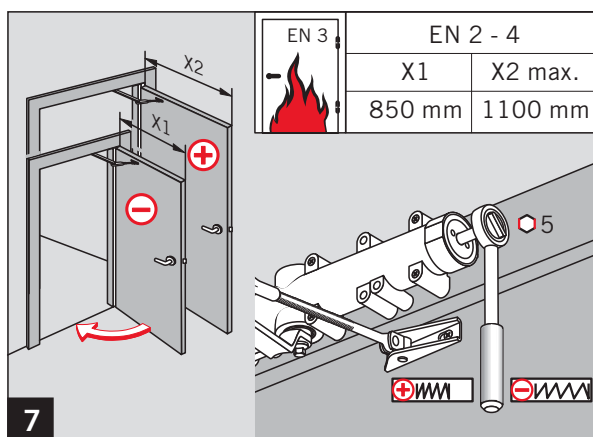
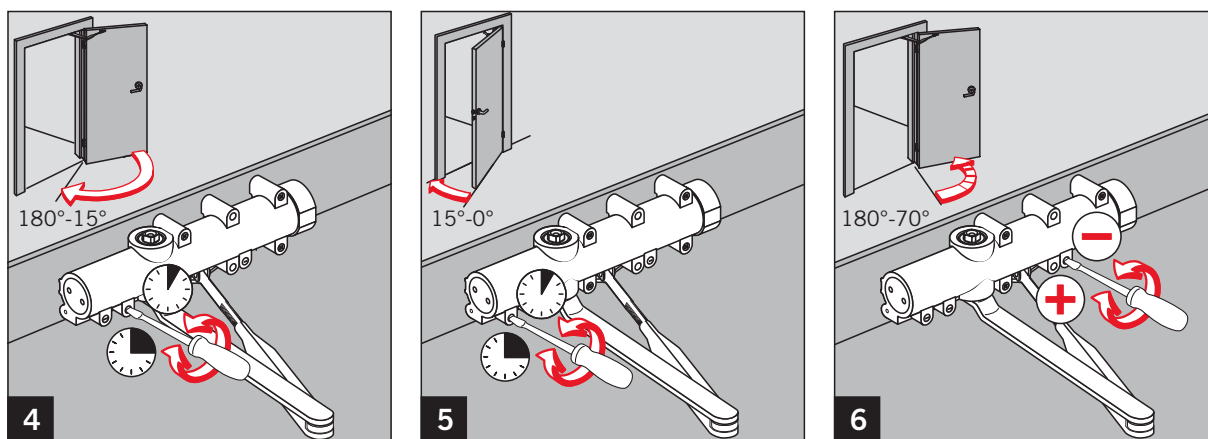
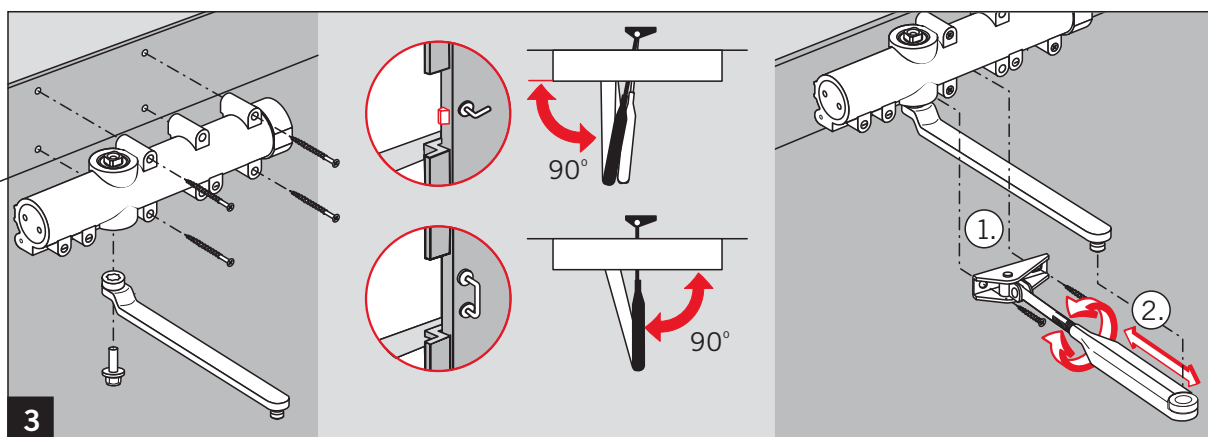
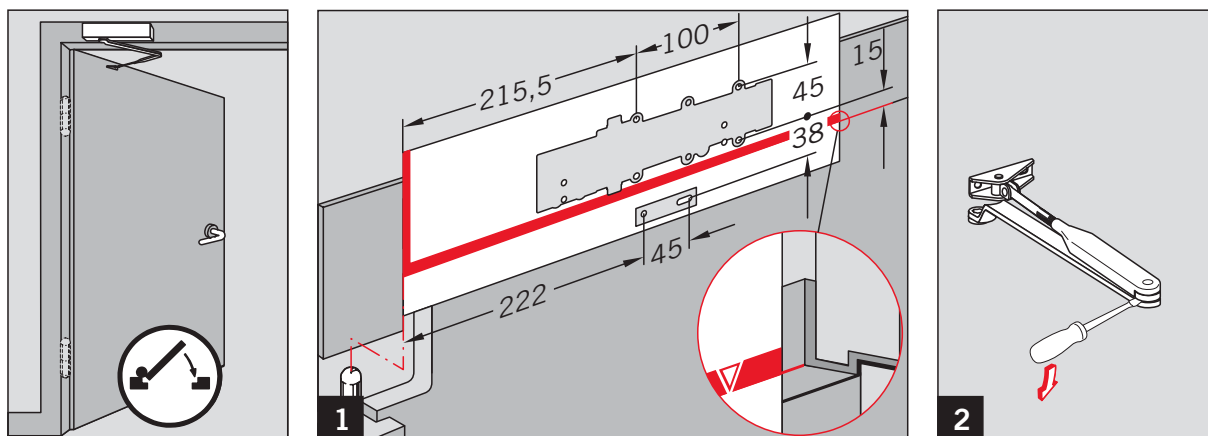
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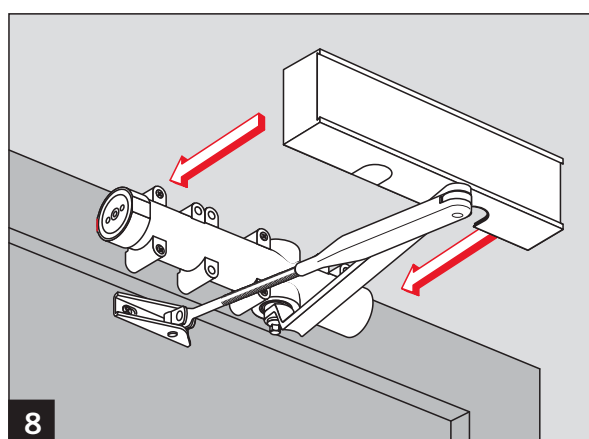
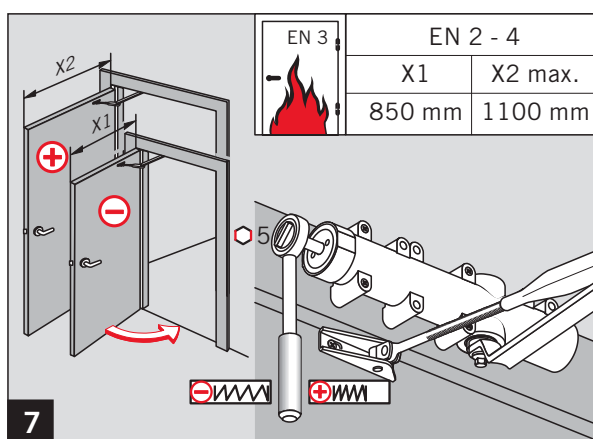
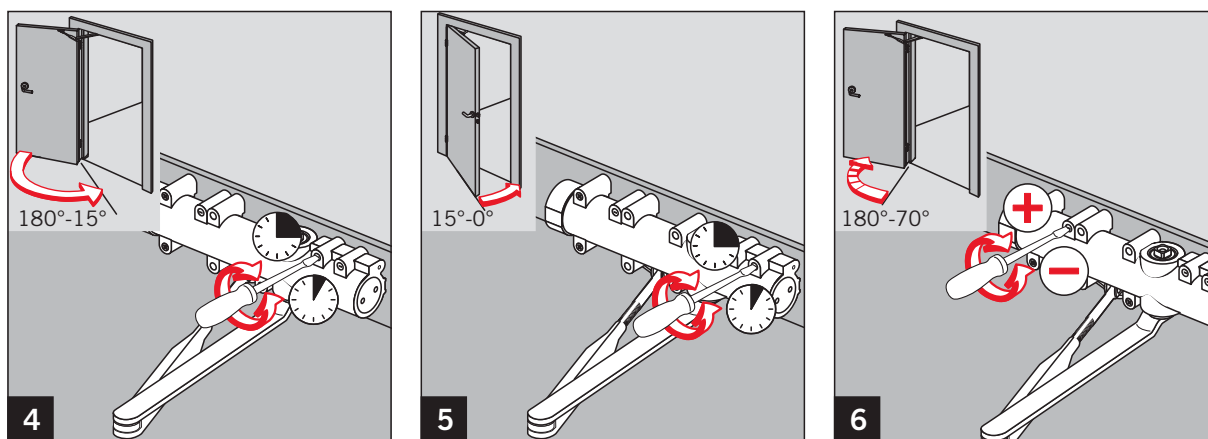
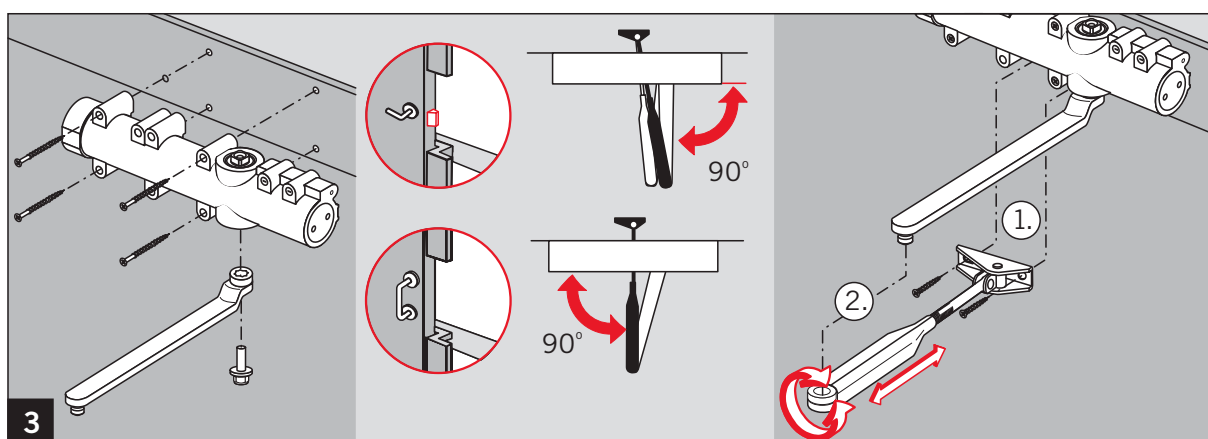
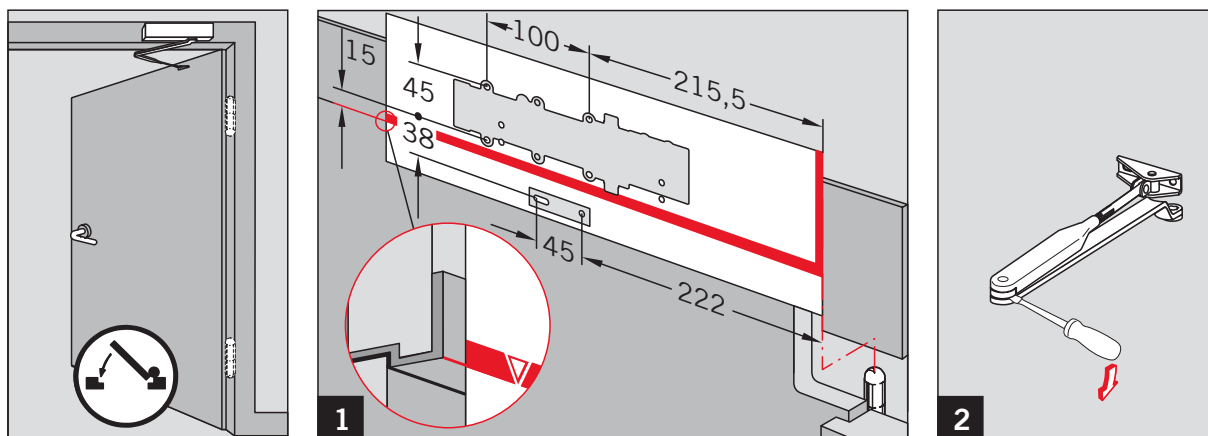


Änderungen vorbehalten
Subject to change without notice









Änderungen vorbehalten

GEZE TS4000 / S Overhead Door Closer



Installation Instructions

WARNING: DOOR CLOSERS WITH A POWER RATING LOWER THAN 3 OR WITH MECHANICAL HOLD OPEN DEVICES ARE NOT SUITABLE FOR USE WITH FIRE DOORS.

Components Checklist:

- | | |
|--------------------------|---|
| 1x Closer body & cover | 4x 5x55mm Self-tapping countersunk screws |
| 1x Guide Rail Assembly | 2x M5x40mm Countersunk screws |
| | 4x M5x55mm Countersunk screws |
| 2x M6 Allen Bolts | 2x 5x50 Self-tapping countersunk screws |
| 2x Plastic end caps | |
| 1x Plastic spindle cover | |

Tools Required For Installation:

- | | |
|-----------------------|---|
| Flat head screwdriver | 10mm Spanner |
| Posidrive screwdriver | 5mm Allen key (supplied) |
| Power drill | M5 Tap and Tap wrench (steel door mounting) |
| 4.2mm drill bit | |
| Template (supplied) | |
| Pencil | |

User Information for Door Closers

This information must be observed. Non compliance will absolve the manufacture from any liability. The door closer must only be used in accordance with its intended use; i.e. closing of side hung doors following manual opening.

Incorrect use may cause injury

- Obstruction of closing process (e.g. dragging doors, sticking weather strips/sealing rubbers, rough-running locks)
- Incorrect installation and adjustment (e.g. slamming doors)
- Danger of finger trap between frame and door leaf.
- Wrong size door closer.
- Closer used for other purpose than to close side hung doors.

Maintenance:

NOTE:

- Maintenance to be carried out by a specialist only.
- Check assembly for tolerance and undue wear.
- Tighten any screws that may have become loose.

At least once a year:

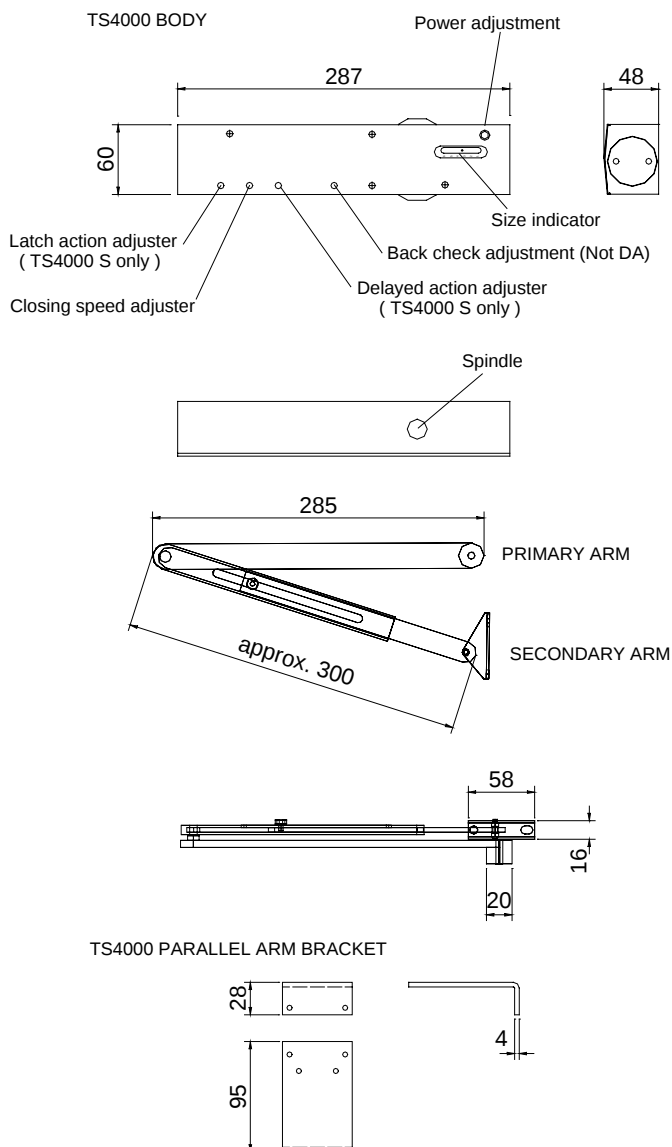
- Grease moveable parts.
- Check operation of doors and adjust if necessary.
- For door closers subject to release by Electro Mechanical and Electro Hydraulic means ensure that local regulation are adhered to.

Installation and adjustment by specialist only

Where necessary, an additional doorstop or buffer must be fitted to limit the maximum opening of the door. This is of particular relevance for slide rail closers where the opening angle may be limited by frame. For further explanations see catalogue preface and product information.

Door handing - DIN left / right

Stand facing the door on the hinge side / pull side. If the hinge or pivot is to your right hand side the door is considered to be DIN right. If the hinge or pivot is to your left hand side the door is considered to be DIN left.



IMPORTANT WARNING:

HIGH INTERNAL PRESSURES, UNDER NO CIRCUMSTANCES ATTEMPT TO DISMANTLE THE CLOSER.

Fixing in figure 1

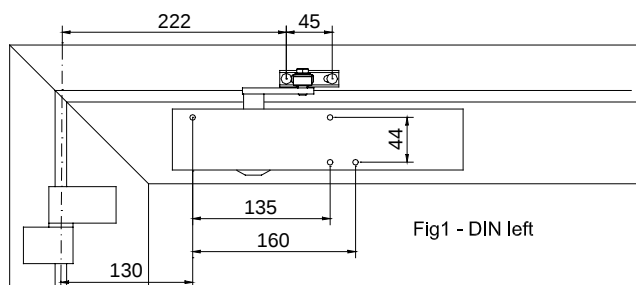
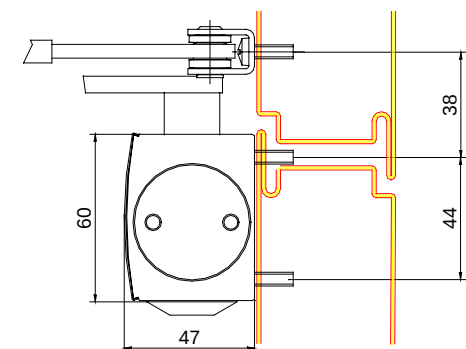


Fig1 - DIN left

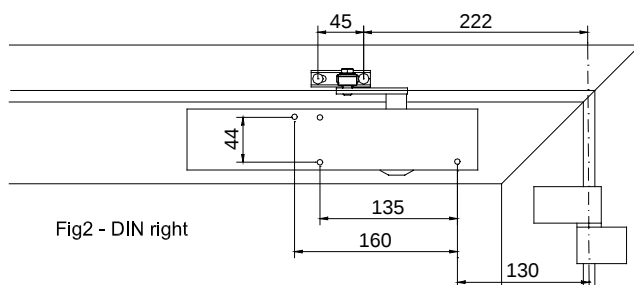


Fig2 - DIN right

➤With the aid of the template mark out the fixing positions. Align the hinge point of the template with the centre line of the hinge on the door. (This applies to both left and right-hand doors.) There are two holes to be drilled/tapped on the transom for the arm shoe and four holes to be drilled/tapped on the door leaf for the closer body. If the template is not used refer to fixed dimensions (see figure 1 and 2 above.)

➤Secure closer body with screws provided, making sure that the spindle is positioned towards the hinge side. (See figure 1 and 2 above.) The power size (closing force) of the TS4000 is adjusted by turning the Allen key screw situated above and to the right of the clear glass indicator tube containing a small ball bearing. As the screw is turned the ball bearing will gradually move to show its power size. If it doesn't appear to be moving give the indicator a gentle tap with your finger which will release it. (Please be aware that the power sizes indicated on the closer are EN ratings 1 – 6.)

➤**TS4000 and TS4000S** If latch action is required (to overcome a latch or seals.) Separate the primary and secondary arms. This can be done using a screwdriver as a lever between the knuckle. The arm sections will snap together and apart. Secure the primary arm to the spindle using M6 allen bolt supplied. Ensure splines are interlocked. Locate arm at approx. 80° with respect to the door leaf, towards the hinge point. (See figure 3.) Fix the secondary arm to the transom using the screws provided and loosen 10mm locking bolt on arm. Secure primary and secondary arms together (simply click in place.) Prime the closer slightly by rotating the **primary** arm to approx. 90° with respect to the door leaf and tighten the locking bolt. (See figure 4.)

➤The latch action of the **TS4000S** can now be adjusted using the adjustment valve located on the front in the centre of the body. Clockwise will decrease the latch action and anticlockwise will increase the latch action. **Do not overtighten.**

➤**TS4000 and TS4000S.** If no latch action is required. As above however when priming the closer rotate the **secondary** arm to approx. 90° with respect to the door leaf and tighten the locking bolt. (See figure 5.)

➤**TS4000 and TS4000S.** The back check is a segment of the closers opening cycle with increased resistance. It is factory set to come in when the door is at approx. 80°. To bring the back check in later turn the valve anticlockwise.

➤The closing speed can now be adjusted using the adjustment valve located on the front of the body of the closer. Clockwise will decrease the closing speed and anticlockwise will increase the closing speed. **Do not overtighten.**

➤Test installation by simulating persons using the entrance. The door should close smoothly without slamming and present no potential hazard to traffic.

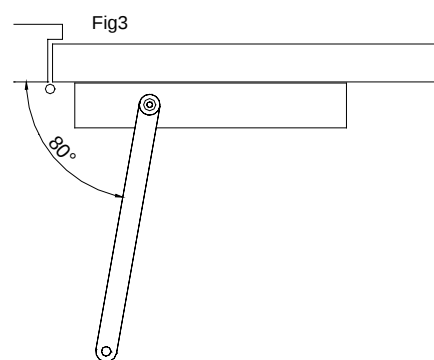


Fig3

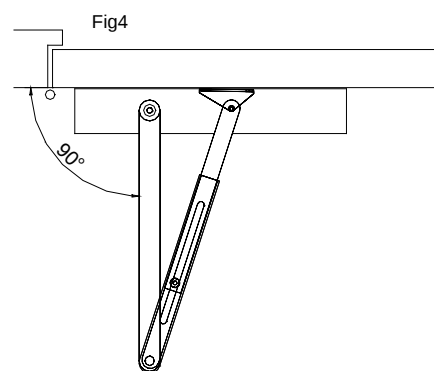


Fig4

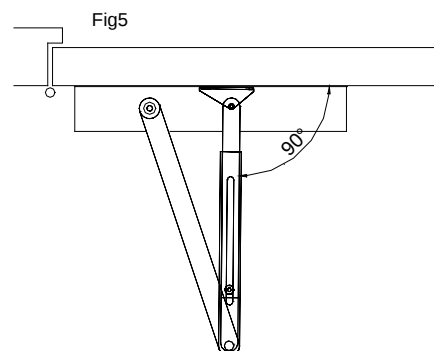


Fig5

Fixing in figure 61

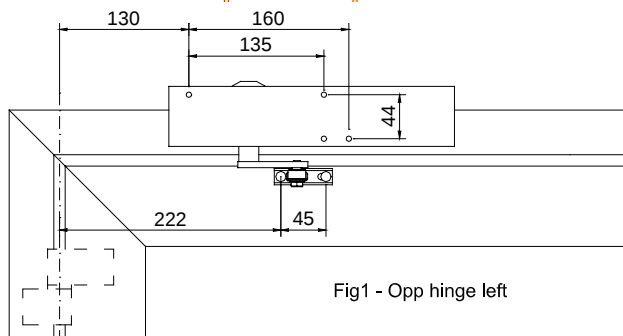
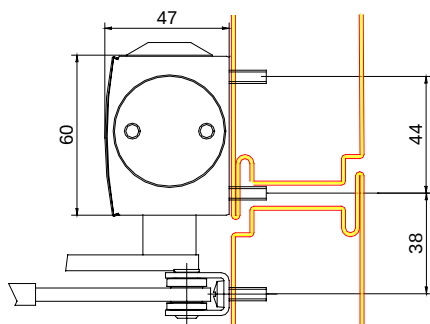


Fig1 - Opp hinge left

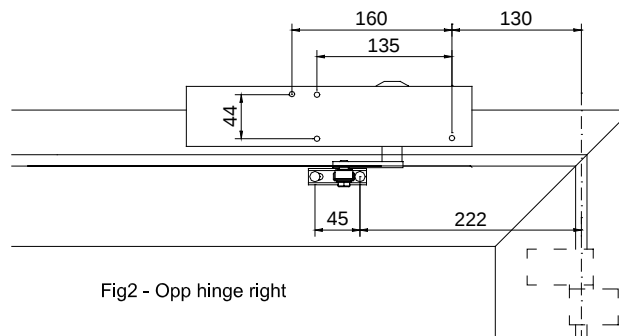


Fig2 - Opp hinge right

➤With the aid of the template mark out the fixing positions. Align the hinge point of the template with the centre line of the hinge on the door. (This applies to both left and right-hand doors.) There are two holes to be drilled/tapped on the door leaf for the arm shoe and three holes to be drilled/tapped on the transom for the closer body. If the template is not used refer to fixing dimensions (see figure 1 and 2 above.)

➤Secure closer body with screws provided, making sure that the spindle is positioned towards the hinge side. (See figure 1 and 2 above.) The power size (closing force) of the TS4000 is adjusted by turning the Allen key screw situated above and to the right of the clear glass indicator tube containing a small ball bearing. As the screw is turned the ball bearing will gradually move to show the power size. If it doesn't appear to be moving give the indicator tube a gentle tap with your finger which will then release it. (Please be aware that the power sizes indicated on the closer are EN ratings 1 – 6.)

➤**TS4000 for TS4000S see below.** If latch action is required (to overcome a latch or seals.) Separate the primary and secondary arms. This can be done using a screwdriver as a lever between the knuckle. The arm sections will snap together and apart. Secure the primary arm to the spindle using M6 Allen bolt supplied. Ensure splines are interlocked. Locate arm at approx. 80° with respect to the transom, towards the hinge point. (See figure 3.) Fix the secondary arm to the door leaf using the screws provided and loosen 10mm locking bolt on arm. Secure primary and secondary arms together (simply click in place.) Prime the closer slightly by rotating the **primary** arm to approx. 90° with respect to the door leaf and tighten the locking bolt. (See figure 4.)

➤**TS4000 for TS4000S see below.** If no latch action is required. As above however when priming the closer rotate the **secondary** arm to approx. 90° with respect to the door leaf and tighten the locking bolt. (See figure 5.)

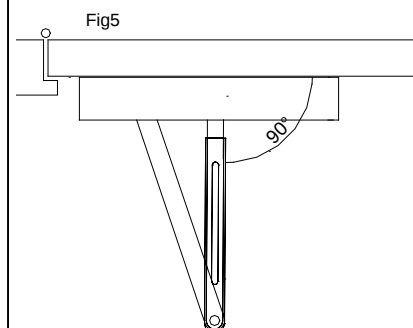
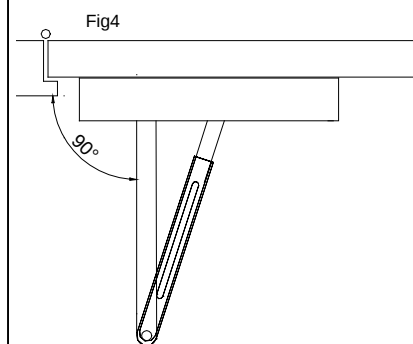
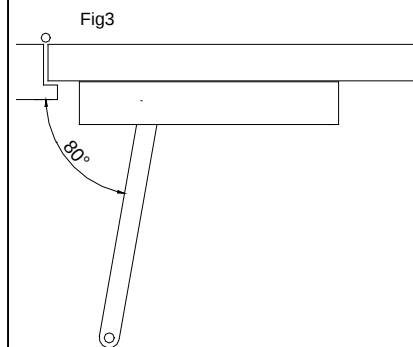
➤The latch action of the **TS4000S** can now be adjusted using the adjustment valve located on the front in the centre of the body. Clockwise will decrease the latch action and anticlockwise will increase the latch action. **Do not overtighten.**

➤**TS4000** - The back check is a segment of the closes opening cycle with increased resistance. It is factory set to come in when the door is approx.80°. To bring the back check in later turn the valve anticlockwise.

➤**TS4000S.** A valve on the front of the closer varies delayed action. It can delay the closing of the door from 0 – 30 seconds. Clockwise gives a shorter delayed action, anticlockwise gives a longer delayed action. **Do not overtighten.**

➤The closing speed can now be adjusted using the adjustment valve located on the front of the body of the closer. Clockwise will decrease the closing speed and anticlockwise will increase the closing speed. **Do not overtighten.**

➤Test installation by simulating persons using the entrance. The door should close smoothly without slamming and present no potential hazard to traffic.



Fixing in figure 66

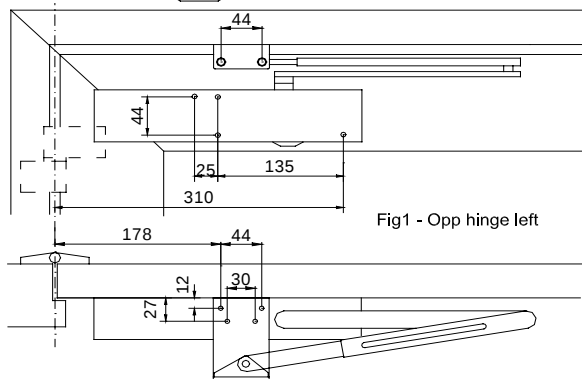
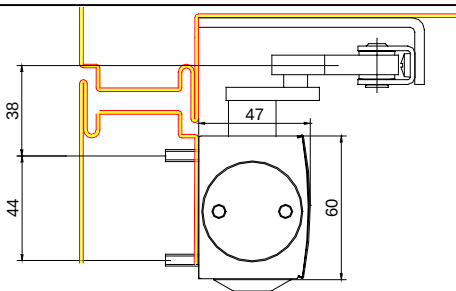


Fig1 - Opp hinge left

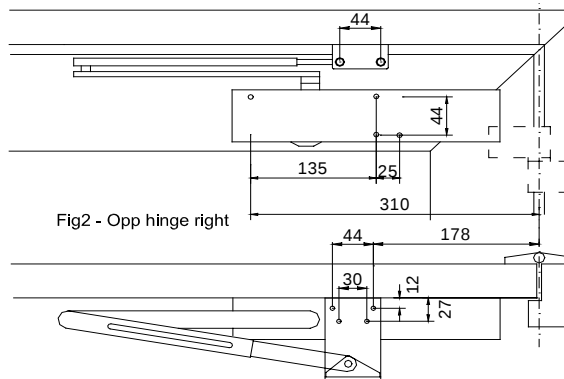


Fig2 - Opp hinge right

➤ Mark the fixing positions in accordance with fixing dimensions (see figure 1 and 2 above.) There are three holes to be drilled/tapped on the door leaf for the closer body and four holes to be drilled/tapped on the underside of the transom for the parallel arm bracket.

➤ Separate the primary and secondary arms. This can be done using a screwdriver as a lever. The arm sections will snap together and apart. Secure the primary arm to the spindle using M6 allen bolt supplied. Ensure splines are interlocked. Locate arm at approx. 10° towards the rear of the closer. (See figure 3 and 4.) Turn closing speed valve, located on the front of the body of the closer fully clockwise. This will decrease the closing speed to almost zero. Do not overtighten. Rotate primary arm to approximately 90°. (See figure 5 and 6.) Secure closer body to door leaf with fixings provided, making sure that the spindle is positioned away from the hinge side. (See figure 1 and 2 above.) The power size (closing force) of the TS2000 is not adjustable in this configuration and the unit must be mounted using the centre fixing holes. Secure primary and secondary arms together (simply click in place.)

➤ Rotate primary arm in direction of travel (away from door leaf) until an angle of approx. 2° is reached in relation to the door leaf. (See figure 7 and 8.) Tighten 10mm locking bolt.

➤ **TS4000 only.** If no latch action is required. Fit closer as described above. Separate the primary and secondary arms. Turn closing speed valve, located on the front of the body of the closer fully clockwise. This will decrease the closing speed to almost zero. Do not overtighten. Rotate the primary arm approx. 90° in the direction of travel (roughly perpendicular to the door leaf.) Loosen the M6 allen bolt securing the primary arm to the closer body enough to enable adjustment. Rotate the primary arm 1 notch of the splined spindle in the opposite direction of travel. Re-tighten M6 allen bolt securing the primary arm to the closer body. Loosen 10mm locking bolt on secondary arm and re-connect primary and secondary arms. Re-adjust the closing speed. Rotate primary arm in direction of travel (away from door leaf) until an angle of approx. 2° is reached in relation to the door leaf. (See figure 7 and 8.) Tighten the 10mm locking bolt. If on testing the latch action has not been removed repeat above until adjusted satisfactorily.

➤ The latch action of the **TS4000S** can now be adjusted using the adjustment valve located on the front in the centre of the body. Clockwise will decrease the latch action and anticlockwise will increase the latch action. **Do not overtighten.**

➤ **TS4000S.** A valve on the front of the closer varies delayed action. It can delay the closing of the door from 0 – 30 seconds. Clockwise gives a shorter delayed action, anticlockwise gives a longer delayed action. **Do not overtighten.**

➤ The closing speed can now be adjusted using the adjustment valve located on the front of the body of the closer. Clockwise will decrease the closing speed and anticlockwise will increase the closing speed. **Do not overtighten.**

➤ Test installation by simulating persons using the entrance. The door should close smoothly without slamming and present no potential hazard to traffic.

Fig 3

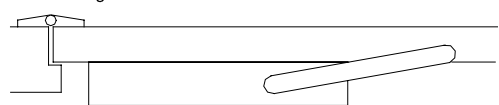


Fig 4

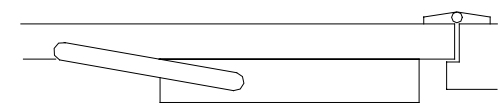


Fig 5



Fig 6

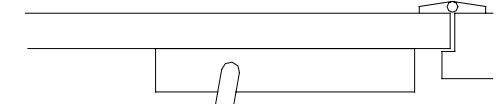


Fig 7

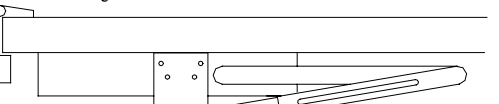
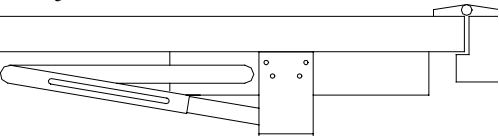


Fig 8



TS83



Easy action
door closer

THE MULTI-FUNCTION, MULTI-PURPOSE DOOR CLOSER

Outstanding versatility.

Quality assured.

Tested to EN 1154.

Decades of experience have gone into the development of the DORMA TS 83.

The result is user comfort coupled with outstanding versatility. It can be adjusted to suit almost all types

of door. Additional anti-corrosion protection for exposed or aggressive conditions is available to special order. Fixing couldn't be easier and last but not least – it's engineered for excellence.

Certified to ISO 9001.

PLUS POINTS ...

... for the trade

- Streamlined product range means low inventory costs and reduced stocking requirement.
- Comprehensive choice of accessories provides practical and effective solutions to meet special applications.

... for the specifier/architect

- Compact closer design and sturdy flat-form arm assembly.
- Wide range of standard functions supplemented by optional extras.
- Suitable for fire doors. (CERTIFIRE approved Ref. CF 118)

... for the installer

- Easy to fix.
- Can be "tailored" to the requirements of the door by simple adjustment.
- Just one model for RH (ISO 5) and LH (ISO 6) doors and for standard and frame/lintel fixing and parallel arm.
- Spring strength range EN 2–5/EN 3–6 to suit virtually every application.

... for the user

- Optimum wall and door protection thanks to "thinking" backcheck.
- Closing speed virtually unaffected by temperature fluctuations.
- High mechanical efficiency gives easy-action opening.

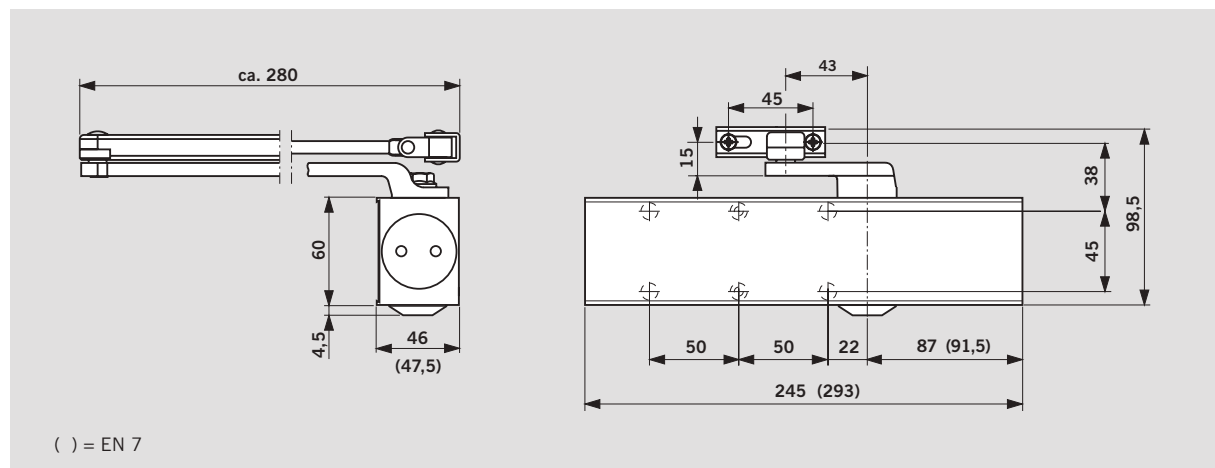
Data and features		TS 83		
Variable closing force	Spring strength	EN 2–5	EN 3–6	EN 7
Standard doors ¹⁾	≤ 1250 mm	●	–	–
	≤ 1400 mm	–	●	–
	≤ 1600 mm	–	–	●
External doors, outward opening ¹⁾	≤ 1250 mm	●	–	–
	≤ 1400 mm	–	●	–
	≤ 1600 mm	–	–	●
Fire and smoke check doors ¹⁾	≤ 1250 mm	●	–	–
	≤ 1400 mm	–	●	–
	≤ 1600 mm	–	–	●
Non-handed		●	●	●
Arm assembly type	Standard	●	●	●
Closing force variable by means of adjustment screw		●	●	–
Closing speed adjustable at 2 separate valves	180° - 15°	●	●	–
	15° - 0°	●	●	–
Closing speed variable by means of valve adjustment		–	–	●
Adjustable latching action	by arm	●	●	●
Backcheck	self-regulating	●	●	●
	adjustable at valve	●	●	●
Delayed action variable at valve		○	○	–
Anti-corrosive model		–	○	–
Hold-open		○	○	○
Weight in kg		1.7	1.7	3.3
Dimensions in mm	Length	245	245	293
	Overall depth	46	46	47.5
	Height	60	60	60
Door closer tested to EN 1154		●	●	●
CE mark for construction products		●	●	●

● yes – no ○ option

¹⁾ For applications involving particularly heavy or wide doors, and doors which have to close against wind resistance, the next highest closer size or a higher spring strength should be applied.

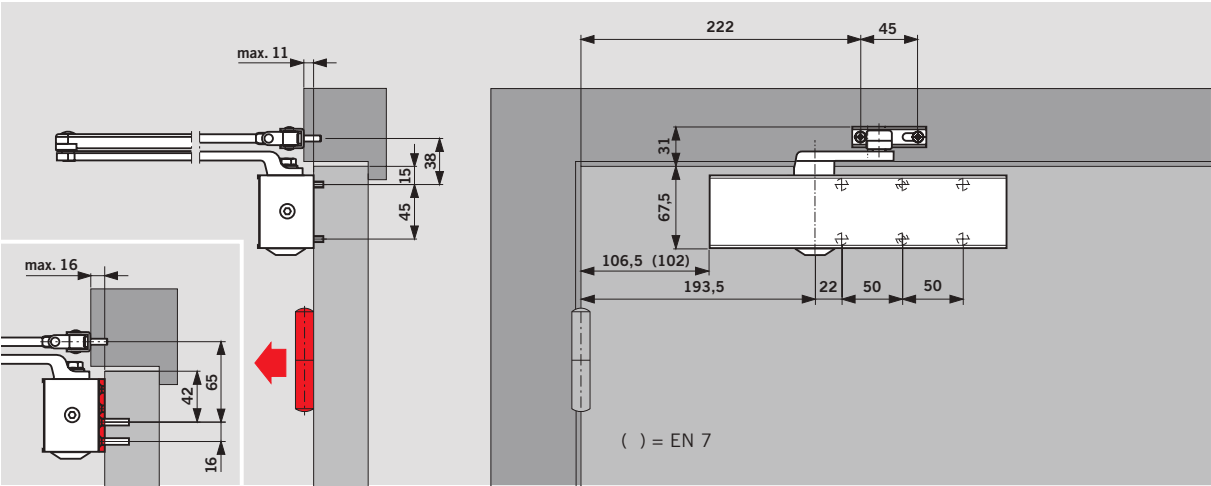


The TS 83 complies with the requirements and/or recommendations of the following: CERTIFIRE approved for fire doors ITT 120; MM/IMM 240; Ref. CF 118

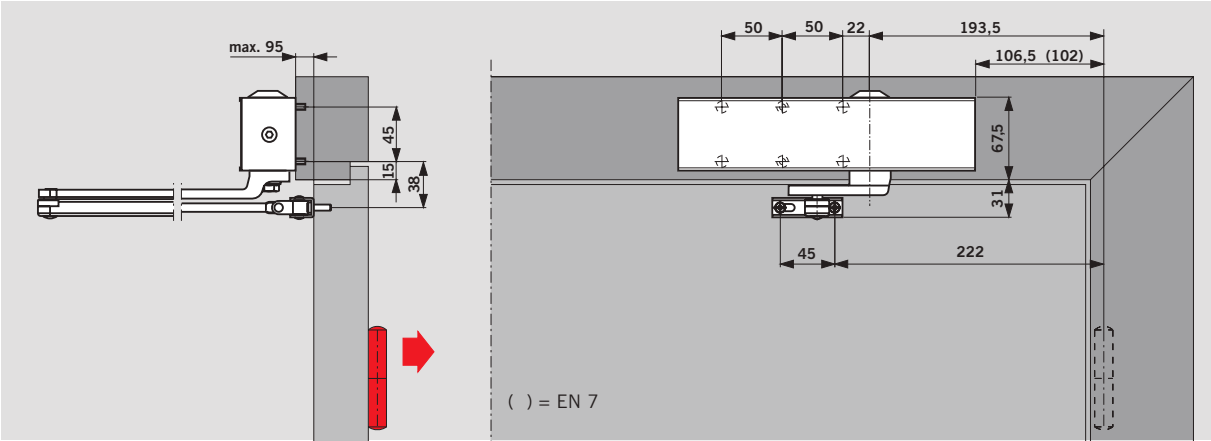


() = EN 7

DOOR LEAF FIXING, PULL SIDE (example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)



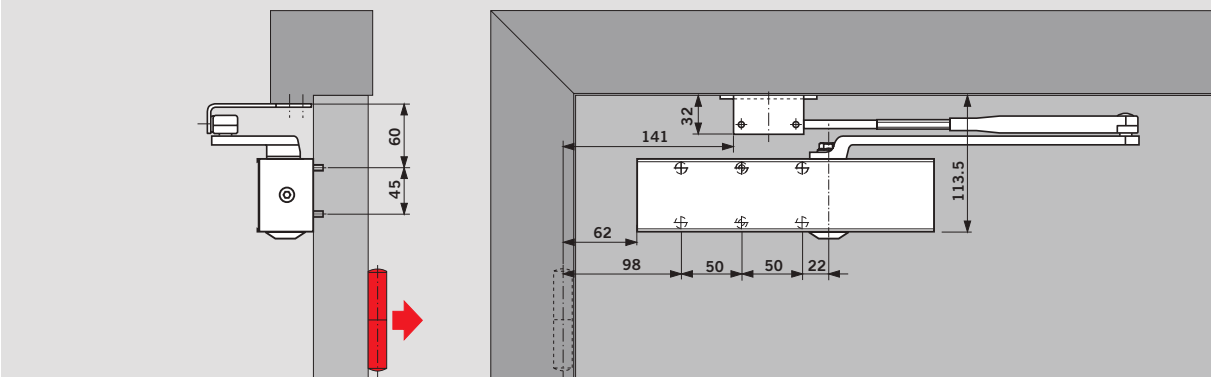
TRANSOM FIXING, PUSH SIDE (example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)



With transom-fixed closers, the backcheck comes in later at between 85° and 90°, depending on the door thickness and projection of the hinge used; the delayed action, on the other hand, releases the door at an earlier point in its closing sweep.

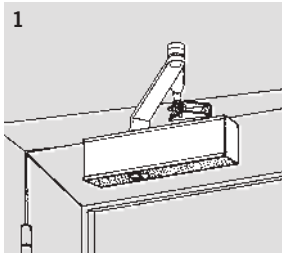
DOOR LEAF FIXING, PUSH SIDE (parallel arm installation)

(example shows LH (ISO 6) door; RH (ISO 5) doors mirrored arrangement)

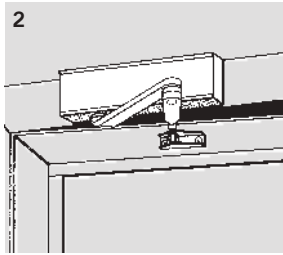


With parallel arm application, the backcheck comes in later at between 85° and 90°, depending on the door thickness and projection of the hinge used; the delayed action, on the other hand, releases the door at an earlier point in its closing sweep.

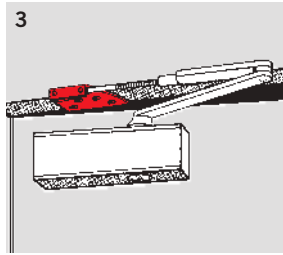
Technical details					
installation	interior door widths up to	closer size	interior door widths up to	closer size	
standard/frame	1250 mm	2 – 5	1400 mm	3 – 6	
parallel arm	1100 mm	2 – 4	1250 mm	2 – 5	



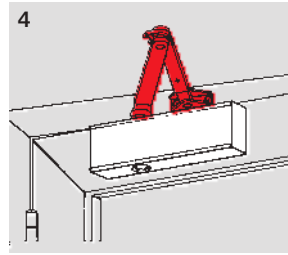
Standard installation



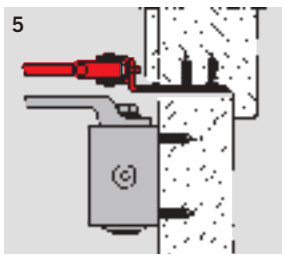
Frame installation



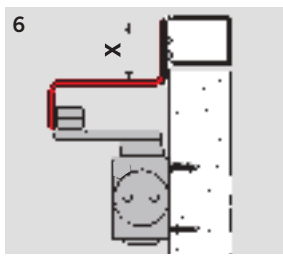
Parallel arm installation
(The above bracket is supplied with every TS 83 standard door closer.)



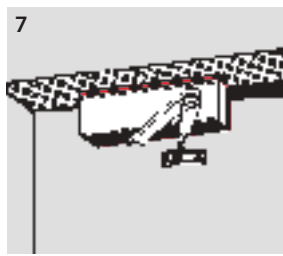
Hold-open arm installation
Adjustable for hold-open up to 150°. Can be switched off to act as a standard arm.



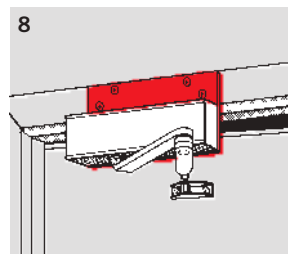
Soffit bracket and arm for standard installation with shaped architrave



Parallel arm bracket with upstand
(*upstand 35 or 60 mm)



Angle bracket installation
Frame installation for outward opening doors with extra deep reveals.



Drop plate installation
For installation on frame (or door) when direct fixing of closer is not possible.

Specification text TS 83 EN 2-5

DORMA TS 83 rack and pinion door closer; with adjustable power size EN 2 - 5, according to EN 1154, carries the CE mark, integral self-regulating backcheck; closing speed adjustable in two independent ranges and adjustable latch action. Non-handed.

- Model**
- ☐ with additional, adjustable delayed action
 - ☐ with standard arm
 - ☐ with hold-open arm with switch

Accessories

- Colour**
- ☐ silver
 - ☐ white (sim. RAL 9016)
 - ☐ other
 - ☐ (sim. RAL _____)

Make: DORMA TS 83
 TS83

Specification text TS 83 EN 3-6

DORMA TS 83 rack and pinion door closer; with adjustable power size EN 3 - 6, according to EN 1154, carries the CE mark, integral self-regulating backcheck; closing speed adjustable in two independent ranges and adjustable latch action. Non-handed.

- Model**
- ☐ with additional, adjustable delayed action
 - ☐ with standard arm
 - ☐ with hold-open arm with switch

Accessories

- Colour**
- ☐ silver
 - ☐ white (sim. RAL 9016)
 - ☐ other
 - ☐ (sim. RAL _____)

Make: DORMA TS 83
 TS83

Specification text TS 83 EN 7

DORMA TS 83 rack and pinion door closer; with power size EN 7, according to EN 1154, carries the CE mark, integral self-regulating backcheck; adjustable closing speed and adjustable latch range. Non-handed.

- Model**
- ☐ with standard arm
 - ☐ with hold-open arm with switch

- Accessories Colour**
- ☐ silver
 - ☐ white (sim. RAL 9016)
 - ☐ other
 - ☐ (sim. RAL _____)

Model make DORMA TS 83
 TS83

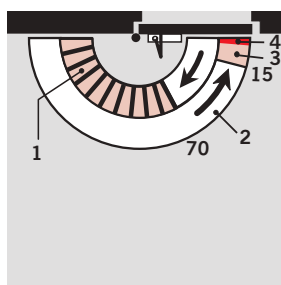
STANDARD FUNCTIONS

WITH “THINKING” BACKCHECK – MODEL BC/ÖD

Thanks to an innovative design concept, the resistance developed by this backcheck system is directly proportional to door acceleration as the door is opened beyond approx. 70°. It is almost imperceptible when the door is opened slowly. However, if the door is opened roughly, the backcheck responds in equal measure.

And if the door should be flung open at speed – whether deliberately, thoughtlessly, accidentally or as a result of a gust of wind – the backcheck reacts at full strength, protecting the wall and door from damage.

If no backcheck function is required, the system can simply be switched off.

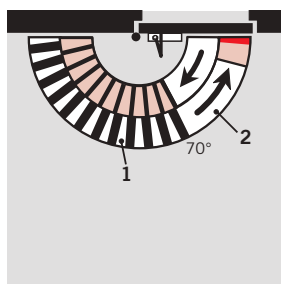
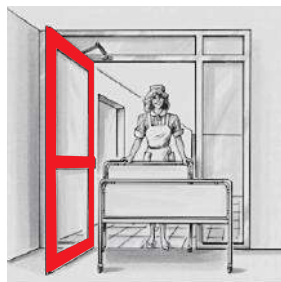


- 1 Self-regulating backcheck
- 2 Infinitely variable closing speed in the range 180° – 15°
- 3 Infinitely variable closing speed in the range 15° – 0°
- 4 Adjustable latch range (by arm)

WITH ADDITIONAL DELAYED ACTION – MODEL BC/ÖD + DC/SV

This model with its additional, integrated delayed action enables the closing cycle to be retarded within an adjustable range from 180° – 70° so that disabled

persons, mothers with prams and people carrying bulky items are able to pass through the door without difficulty.

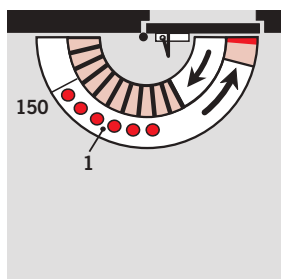


- 1 Adjustable delayed action
- 2 Fully controlled closing with adjustable speed

WITH OPTIONAL HOLD-OPEN ARM

Combining the TS 83 with a hold-open arm enables the door to be held open at an appropriate angle (up to approx. 150°).

The hold-open function of the standard hold-open arm can be switched on and off by the user by simply pressing a switch.



- 1 Hold-open range

Hold-open arms are not permitted on fire doors

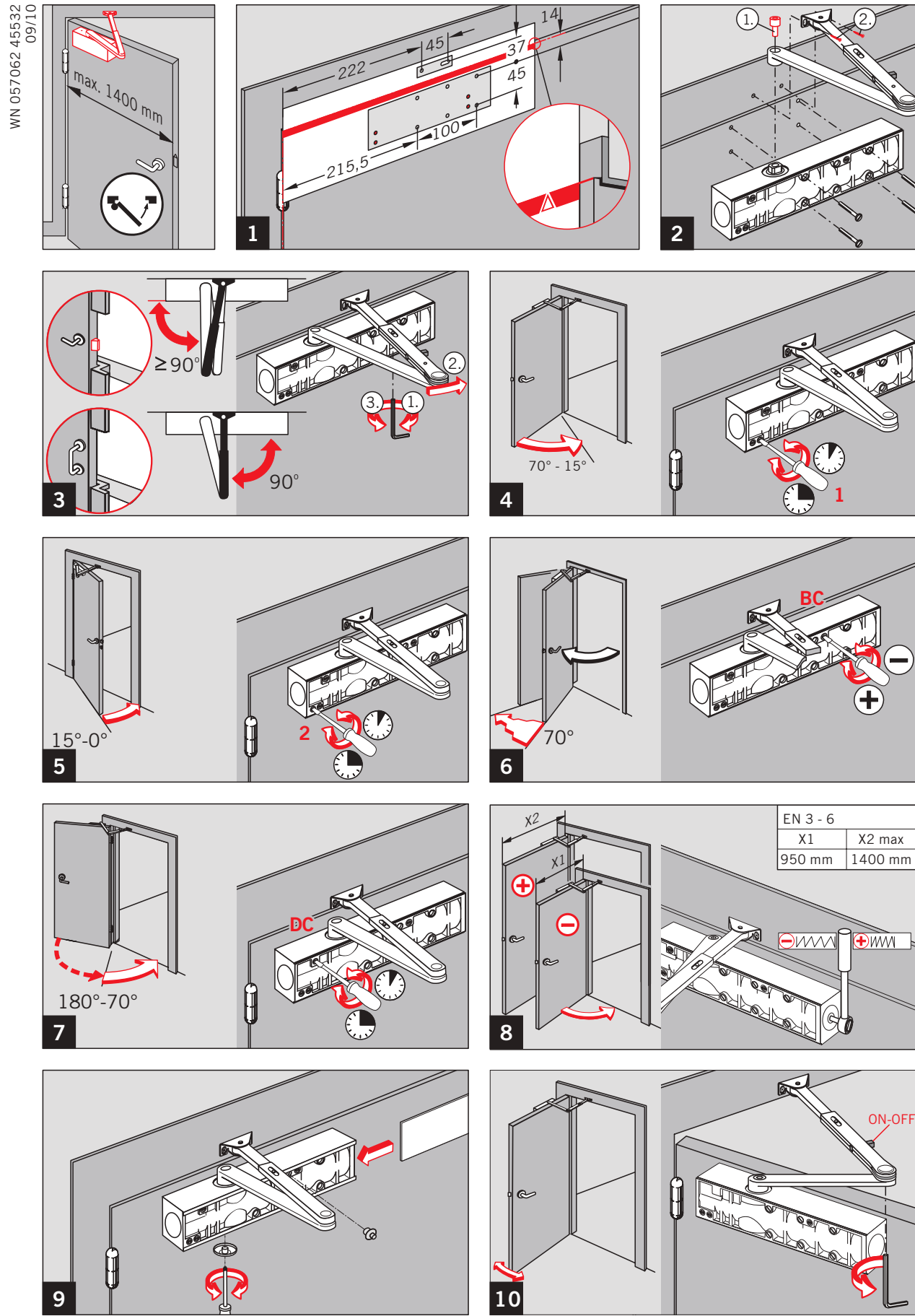
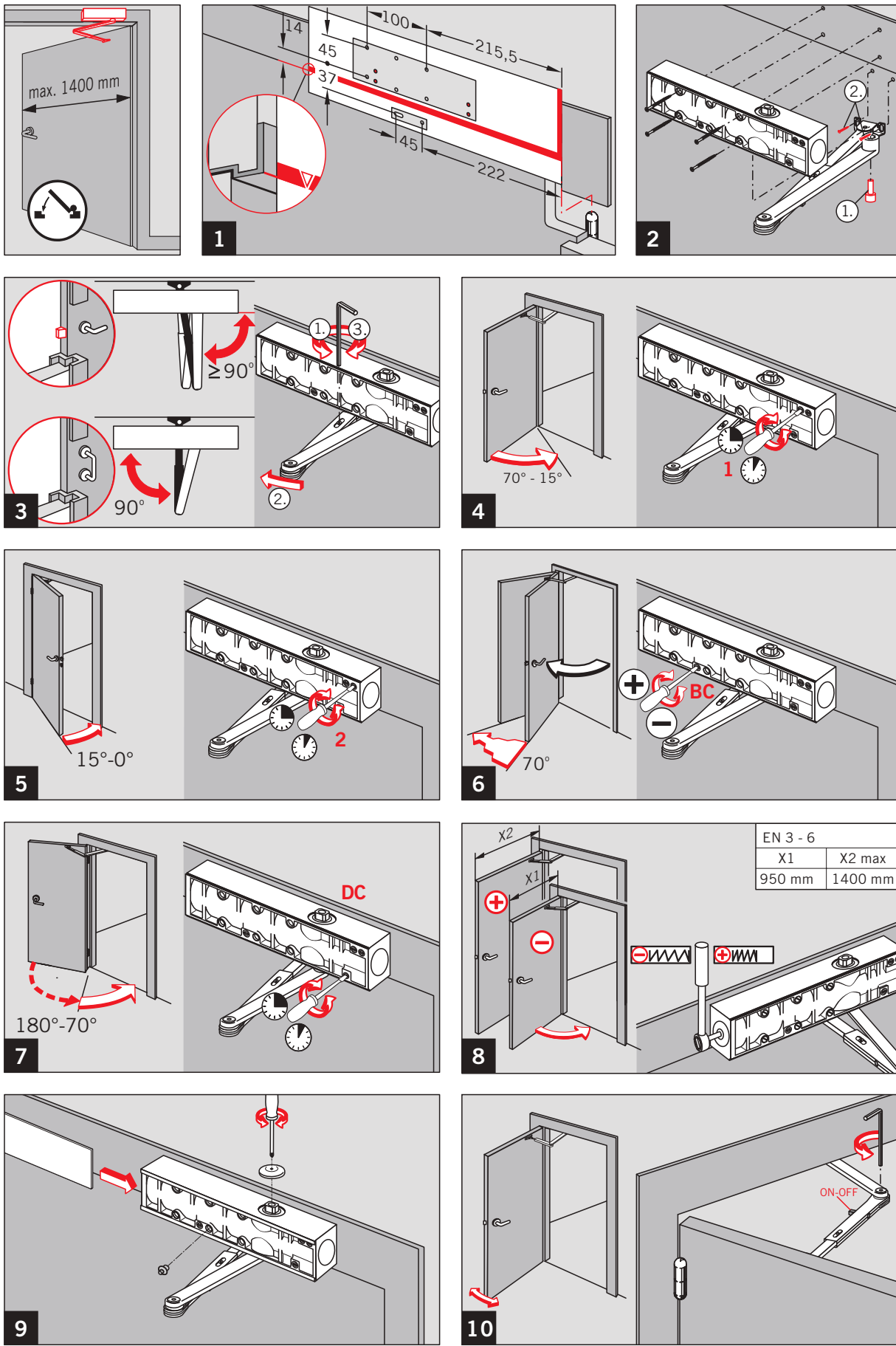
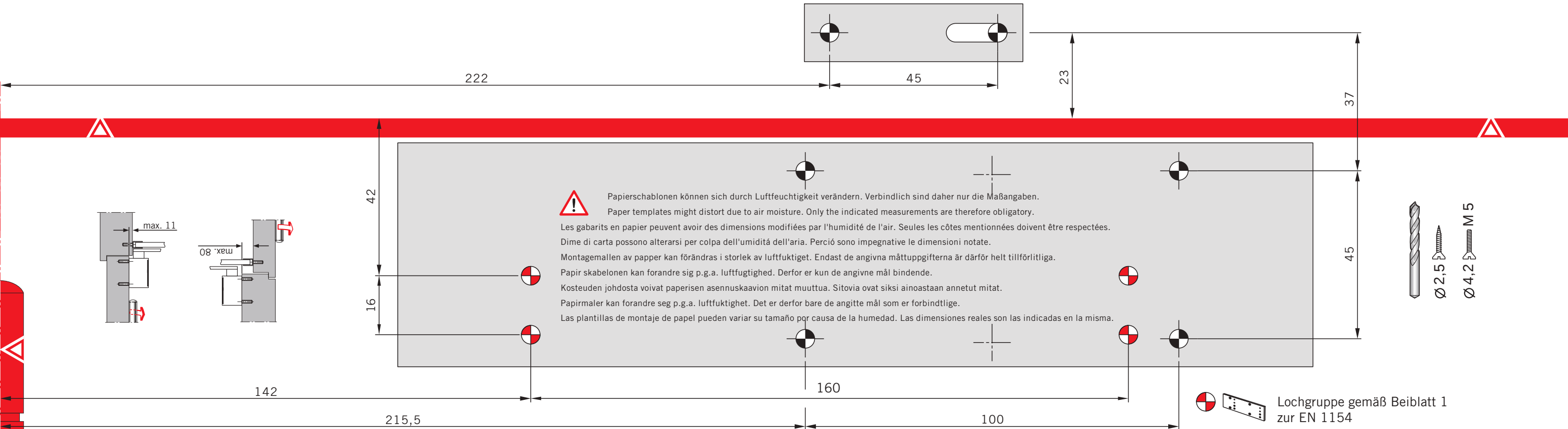


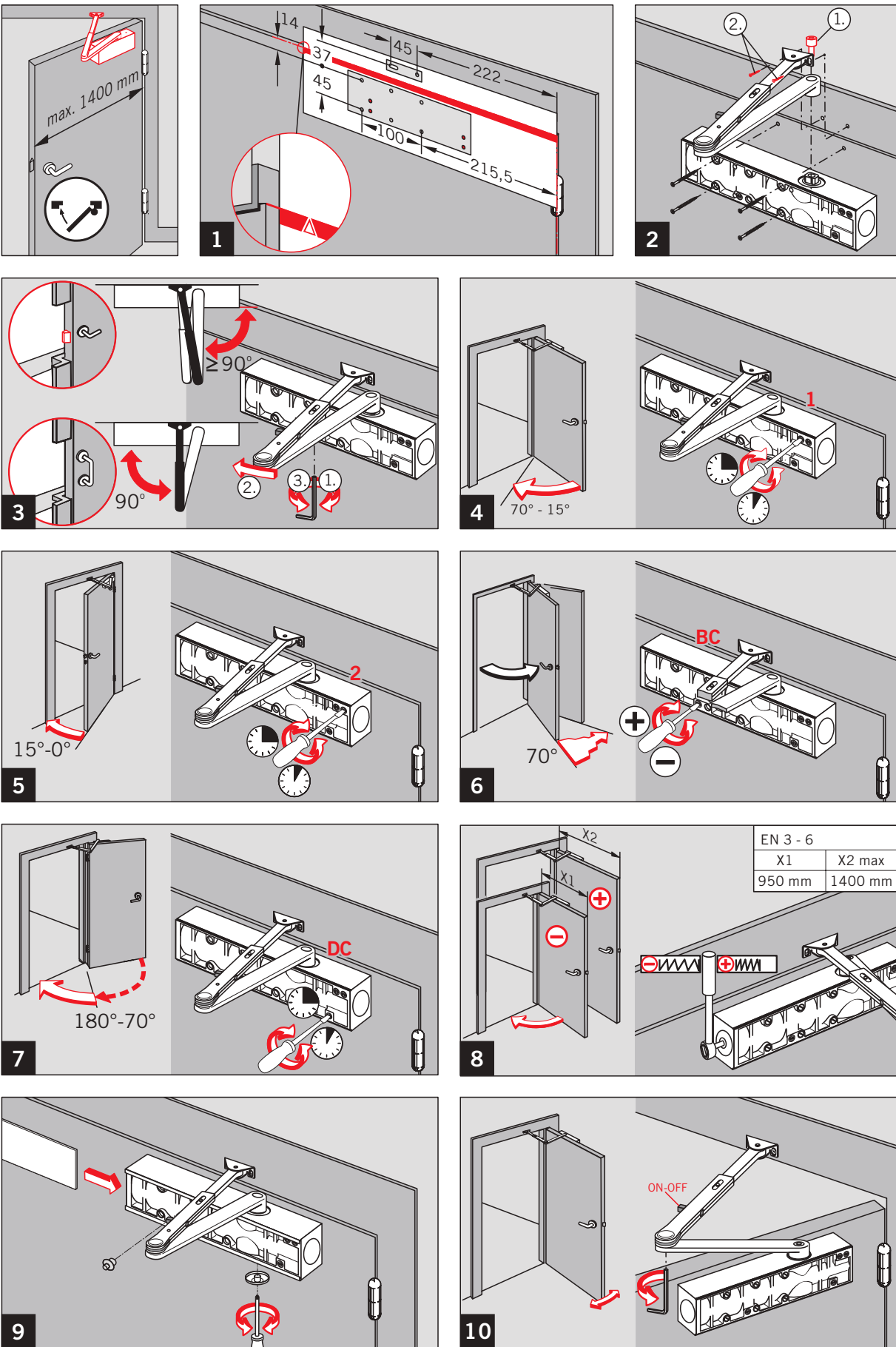
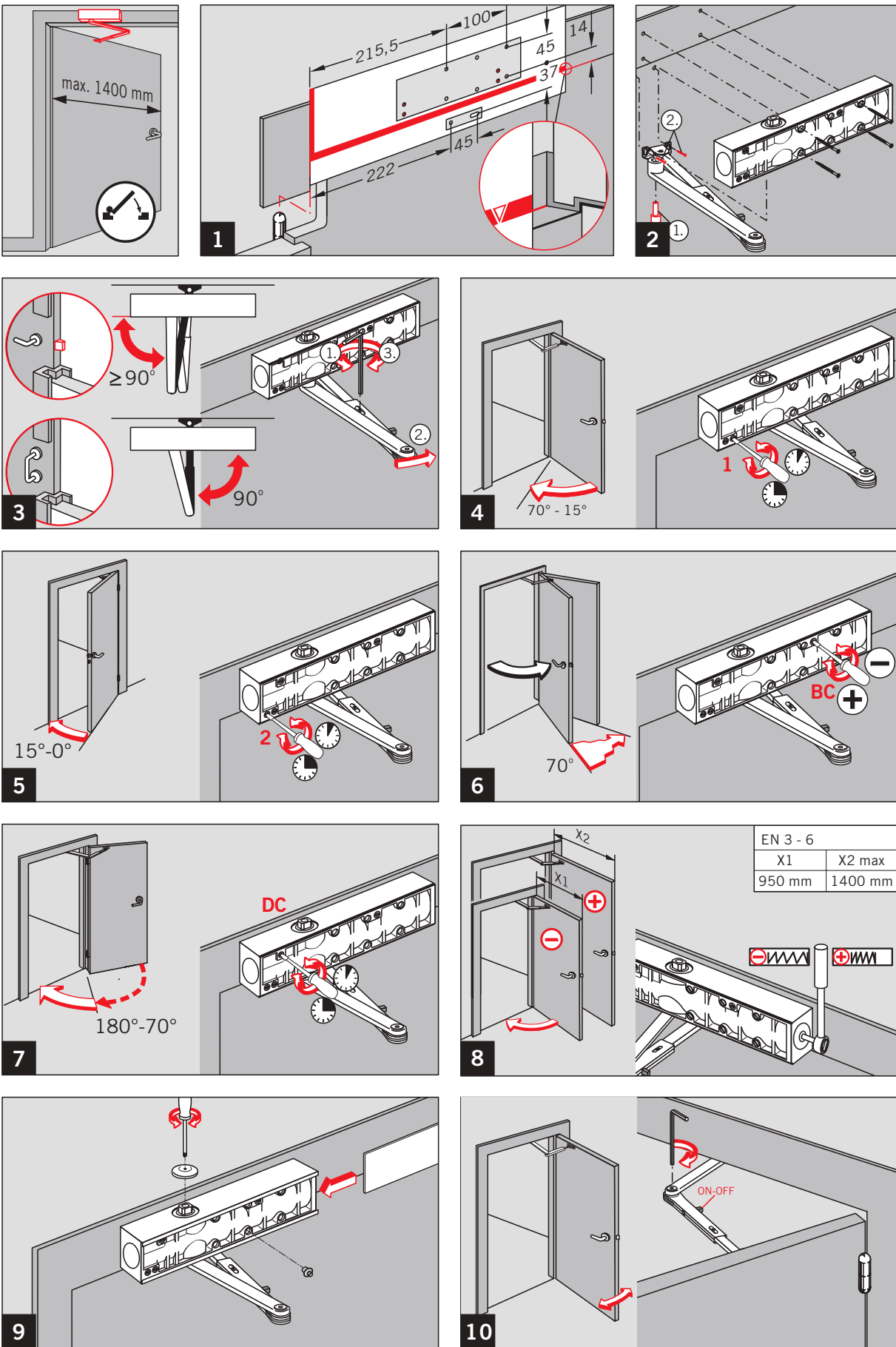
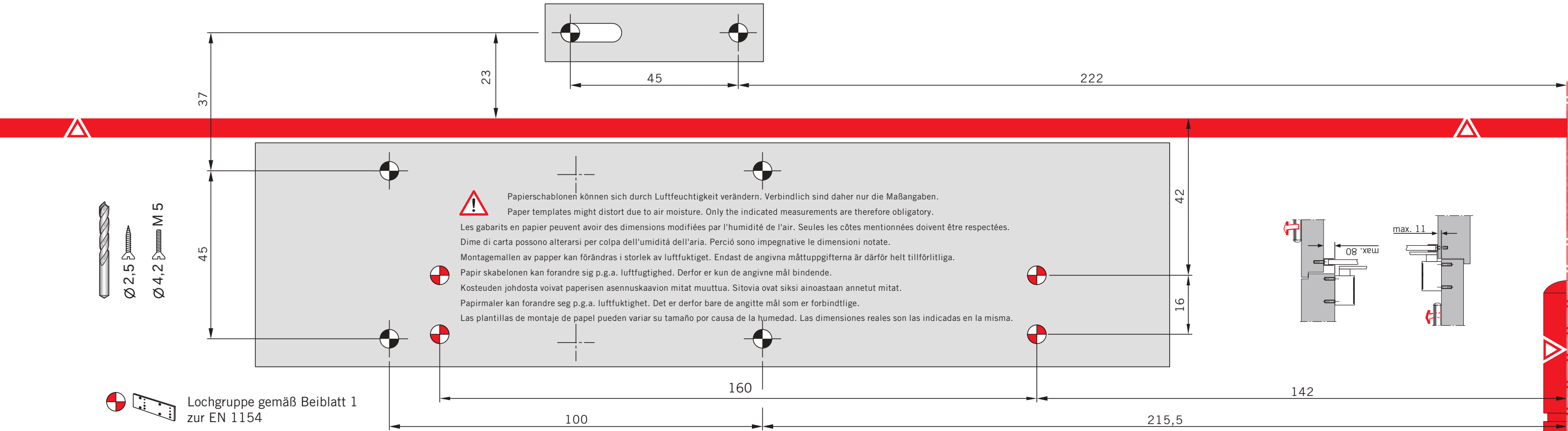
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Fax: 01462 477601
E-mail: hardware@dorma-uk.co.uk
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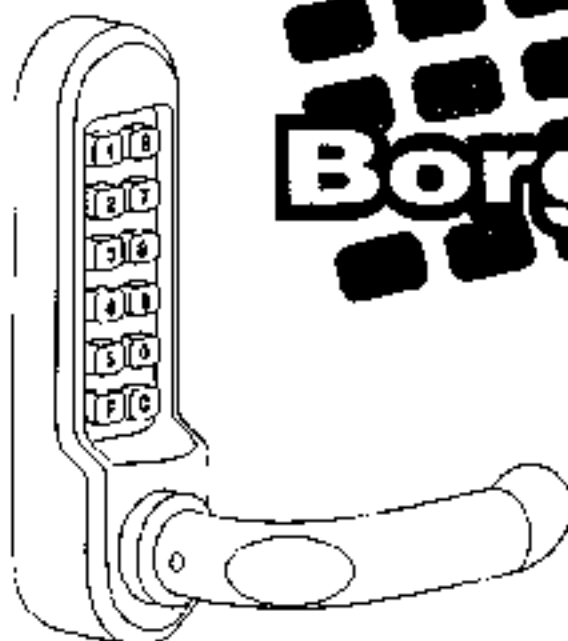
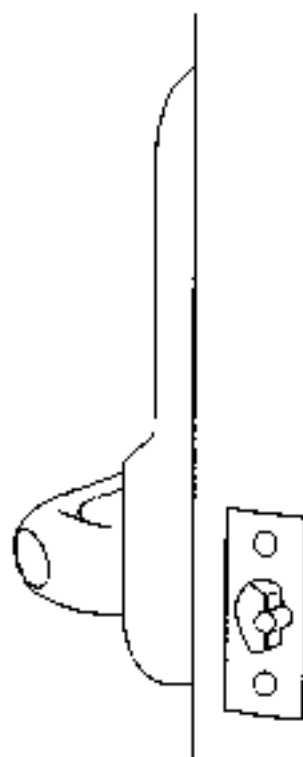
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E-mail: dormadublin@dorma.ie
www.dorma.ie





PARTS LIST, INSTALLATION AND GENERAL INFORMATION



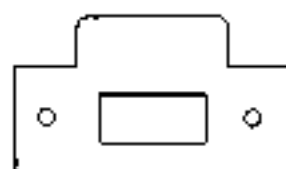
PARTS LIST

Please make sure you have received the following parts:

- (1) Outside lock mechanism
- (2) Inside lock mechanism
- (3) Accessories in 4 packs

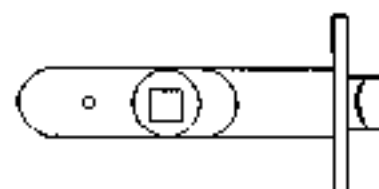
ACCESSORIES PACK 1

- Strike Plate and Box Keep



ACCESSORIES PACK 2

- Latch (50mm standard)



ACCESSORIES PACK 3

- 2 X Spindles



ACCESSORIES PACK 4

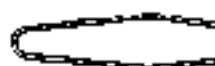
- 2 non-coded tumblers
- 2 coded tumblers
- 1 Tweezer
- 4 4x16mm screws
- 2 M4 x 40mm screws
- 2 M4 x 50mm screws
- 2 M4 x 60mm screws
- 1 long hexagonal Allen key
- 1 handle screw rubber grommet



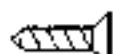
x2



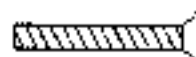
x2



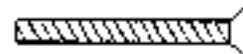
x1



x4



x2



x2



x2



x1



x1

INSTALLATION

PRIOR TO INSTALLATION

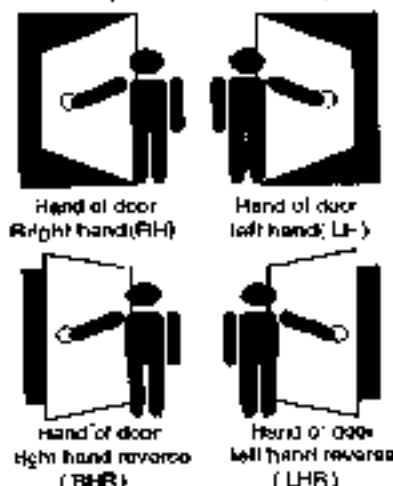
Please check the 5000 series lock is working correctly, by entering the code as stated on the printed code card (remembering to press "C" first) Then rotate the handle clockwise, after rotating approximately 45° you will hear an audible click as the tumblers engage. The handle should then return freely to the horizontal position.

ESTABLISH THE HAND OF THE DOOR

Viewing from the OUTSIDE it is right hand if the hinges are fitted on the right and it is left hand if the hinges are fitted on the left-hand side of the door. This is regardless of whether the door swings inward or outward.

HANDING CHART

(Always take hand from outside)



N. B. All units are set at the factory to suit right hand hung doors

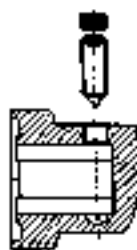
CHANGING TO A LEFT HAND HUNG DOOR

To change this unit to suit a left hand hung door please follow the instructions below:

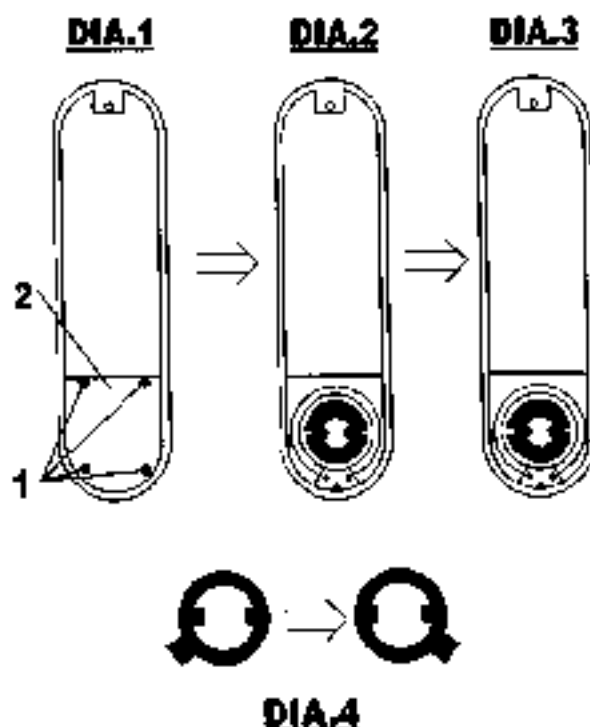
1. Remove the rubber grommet from the base of the handle to expose the grub screw.
2. With the hexagonal key provided, remove the grub screw that holds the handle in place.
3. Now you can lift off the handle and turn it 180° slide the handle back into position and refit the grub screw and grommet.

INSIDE HANDLE

4. Remove the 4 small screws that hold the spring cassette to the handle.
5. Rotate the handle 180°
6. Ensure that the spring is located between the lugs of the cassette and the lugs of housing.
7. Replace the 4 screws (to ensure that the screws do not work loose during operation we recommend you use a mild adhesive) .



If you have encountered any problems then please refer to the trouble shooting guide. If this doesn't help to solve your problem contact the Borg helpline for further information and assistance.



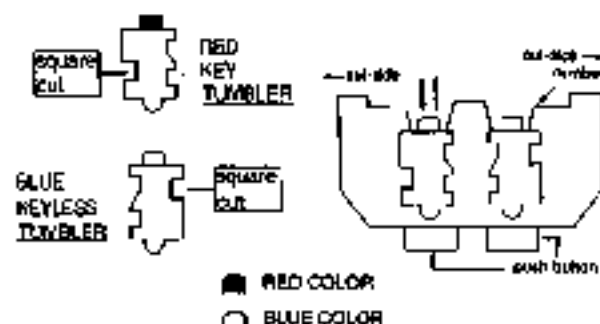
The lock is pre-set for right hand door. When changing to a left hand door, please make sure the following procedure is also carried out on the back plate to prevent over-rotating of the inside handle.

1. With the back side of the backplate facing you, remove the cover (2) by unscrewing the 4 screws (1). (**DIA.1**)
2. Lift THE RING (3) up and re-position THE RING as in (**DIA.1**)
3. Fit the RING back as in (**DIA.4**)
4. Make sure the cover (3) is secured back in place by the 4 screws.

CODE CHANGING PROCEDURE

To change the code on this lock you will need to follow the instructions below very carefully, as any mistake may damage or cause the lock to malfunction.

1. Firstly, you will need to check that the original code is working.
2. Turn the keypad over and remove the 4 red screws.
3. You will now be able to lift off the covering panel (please be careful as there are 12 springs attached to this panel). Please note that the red tumblers will relate to the code printed on the card provided. Also note that the C tumbler is uncoloured and is NOT to be removed.
4. To change your code you will now need to hold the keypad face down. Next depress & hold the C tumbler (if this is not done you may damage some of the internal components.) Now using the tweezers provided, you can reposition the tumblers to the code you want (red tumblers are coded and blue tumblers are un-coded). Please ensure that the space cut-out on each tumbler is facing the outside of the lock body, also make sure that the coloured mark is facing upwards. If any one tumbler is upside down or the wrong way round the lock will not work and if forced will break the internal components. Please note that the code must always start with a C.



5. Now replace the covering panel and hand tighten
6. The code has now been changed, please check to see that it is working correctly, also make a note of the code for future reference. Once satisfied that the lock is working as normal you are ready to fit/re-fit the lock.

NOTES ABOUT THE CODE

You will have been provided with 4 spare tumblers (2 red and 2 blue) these are to shorten or lengthen your code.

N. B Your code can be entered in any order or sequence e. G. 1234 or 4321 or 2431. There are over 1,000 different combinations available.

"F" Function

The "F" button activates the code free entry feature, so if you require continuous free passage you will need to proceed as follows:

1. Enter your access code, but before depressing the lever press the "F" button.
2. You will now be able to rotate the handle freely without entering the code.
3. To cancel the free entry feature, press the "F" button followed by the "C" button and this will reset the unit.

If the "F" function is not required, it can be easily removed by unscrewing the 4 red screws on the back of the keypad to expose the tumblers. Depress the "C" button and keep it depressed, and using the tweezers provided to lift out the "F" tumbler. Now replace the metal cover and 4 red screws.

5001 INSTALLATION INSTRUCTIONS

The fixings supplied with the 5001 are the same as a normal 5000 plus the following; 2 x off-set spindle (1 Right handed & 1 Left handed), 1 strike plate, 1 box keep, 160mm tubular latch & 1 brass support post. For correct installation you will need to read the following instructions carefully

1. Mortise a hole (30 mm diameter 85mm deep) in the edge of the door to take the tubular latch.
2. With the hole drilled, you will need to check that the latch will slide in and out freely and operate without catching on the inside of the hole. Then you will need to mark out the size of the faceplate on the door, use a Stanley knife to do this to avoid splitting when you chisel cut a rebate to make the faceplate flush with the door edge.
3. You will now need to drill the two small holes that will accommodate the fixing posts and screws. Also you will need to drill a hole to slot the spindle though, it is very important the holes are in line, as mis-alignment will cause the lock to malfunction or even break up within a very short period. So please take care to align these locks very carefully. To stop the splitting and make the holes more accurate you should drill the holes from both sides (not all the way through)
4. The most important part of installing this lock is to make sure that you have selected the correct spindle. If uncertain, please refer to the handing chart provided. Once you have the correct spindle, you should assembly and install the spindle as described earlier in this manual. At this point, you should also screw in the brass support post. As this part helps to keep the alignment of the unit and latch once the unit has been installed. (You should now follow the final installation instruction on page 2)

For any further details or information about your lock please call the Borg Helpline on 01277 210644

OTHER LOCKCASES

The 5000 can be fitted with other makes of locks and lockcases, and we can provide special fixings pack where necessary.

For more information and advice, please call our helpline number.

Installation Problems

Problem	Cause	Solution
The lever cannot be rotated after entering a new code.	After changing the factory Coded, one or more of the code tumblers are the wrong way around.	Re read the code change instruction and check that all the tumblers have the square notches facing outwards
Clutch keeps breaking out.	The wrong type of lock case is being used.	The lock case may be over sprung to suit non sprung furniture. If double sprung, remove one of the springs. A MINIMUM of 40° (preferable 45°) travel is required on the latch bolt to ensure smooth operation.
The latch bolt does not move smoothly in and out.	The lock is not installed Correctly.	Check that the lock is square on the door and positioned accurately over the lock case. Check that the lock case is positioned horizontally and parallel to the door surfaces. Check the spindle length, if the spindle is too long it may be trapped between the front and back plate.
The lever is stiff after changing the handing of lock.	Grub screw may have been over tightened.	If you have changed the handing of the lock then make sure that the grub screw has not been over tightened.

After installation problems

Problems	Cause	Solution
If the outside lever is dropping.	The lever has been forcibly turned & the clutch has Broken out.	Someone may have tried to force entry or has entered the wrong code and forced the lever to gain entry. There is a clutch protection system that protects the lock and the lock case from damage. If the handle is dropping, then you will need to reset the clutch mechanism by lifting the lever to the horizontal position. If this does not solve the problem please call our technical support line on 01277 210644.

The Borg guarantee If a Borg Lock should develop a fault due to manufacture within 2 years from date of purchase it will be repaired free of charge.

Please call our help line for spares, repairs and technical advice on **01277 210644** Or E-mail: **mail@borglocks.co.uk**.

DISCLAIMER. Under no circumstances should the lock be dismantled, as this will invalidate your warranty.

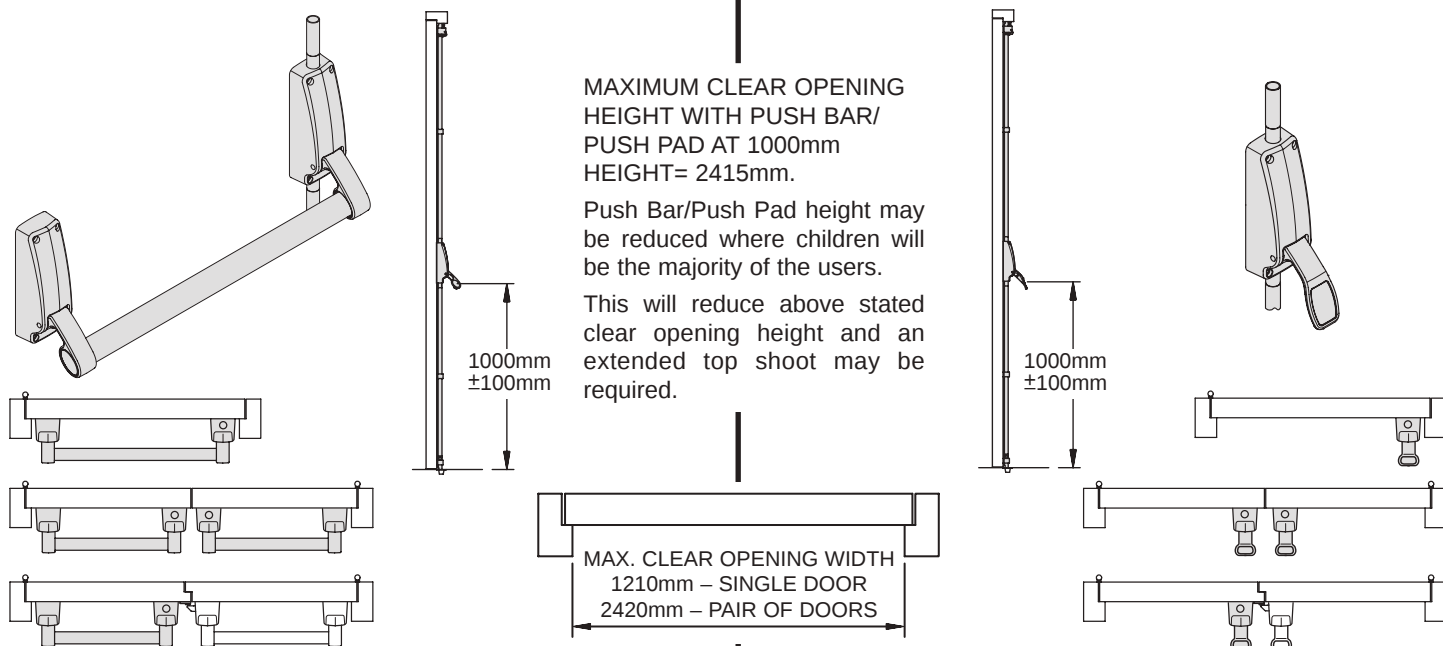
Please Visit The Borg Locks Ltd. Website for further information @ **WWW.BORGLOCKS.COM**.

INSTALLATION INSTRUCTIONS

0376/428/00
ISSUE 01

PUSH BAR PANIC BOLT DEVICE TO EN 1125 : 2008

EMERGENCY PUSH PAD BOLT DEVICE TO EN 179 : 2008



TO COMPLY WITH THE ABOVE STANDARDS, DOOR LEAF MUST NOT EXCEED 2500mm HIGH X 1300mm WIDE X 200KG WEIGHT MAX.

IMPORTANT: THE SAFETY FEATURES OF THESE PRODUCTS ARE ESSENTIAL TO THEIR COMPLIANCE WITH THE ABOVE STANDARDS. NO MODIFICATIONS OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.

THIS PRODUCT IS INTENDED FOR USE ON SINGLE AND / OR DOUBLE LEAF OUTWARD OPENING FIRE ESCAPE ROUTE DOORS.

NOTE: These devices are self handing and will suit either Right or Left hand doors without alteration.

INSTALLATION

- 1) Fix Bolt Box to door for required Push Bar/Push Pad height, and at a distance from frame or leading edge of door according to application.

See Diagram 1

NOTE A: If installing an Outside Access Device mark and prepare door and fix as per separate instructions provided.

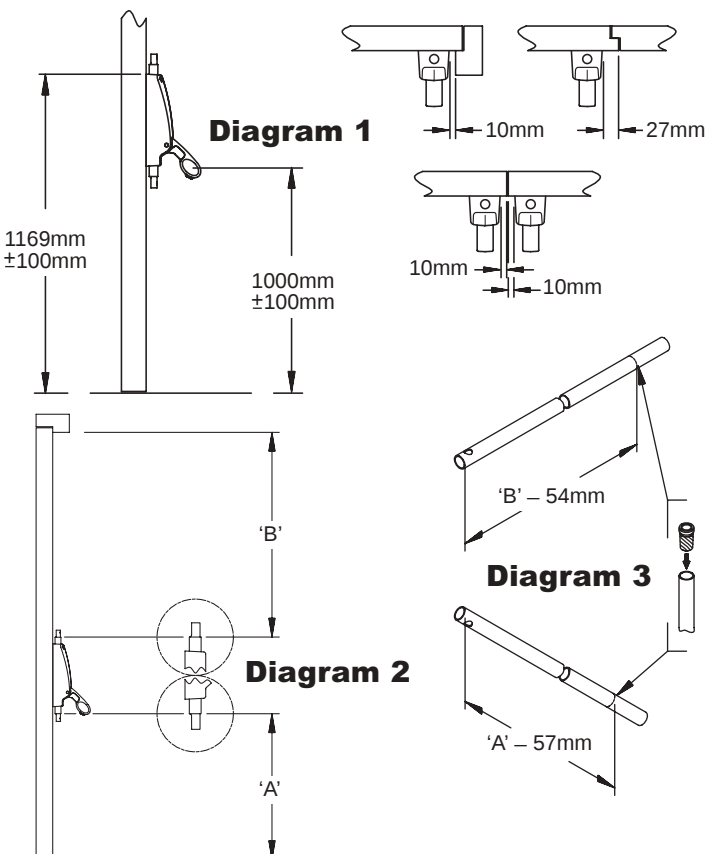
NOTE B: Where the device is fitted to a double doorset with rebated meeting stiles, a co-ordinator should be fitted to ensure correct closing sequence. In such case relevant detail in DIAGRAM 1 may vary. Refer to instruction provided with co-ordinator.

- 2) Accurately measure dimensions 'A' & 'B', deduct the amounts shown and cut Top and Bottom Shoots to length.

See Diagram 2

- 3) Drive Knurled Shoot Plugs into cut ends of Shoots. Support uncut end of Shoots on block of wood to prevent damage.

See Diagram 3



- 4) Remove Bolt Box from door, connect Top and Bottom Shoots and secure with Socket Cap Screws provided.

NOTE: For security purposes the Socket Cap Screws must be inserted from rear face.

See Diagram 4

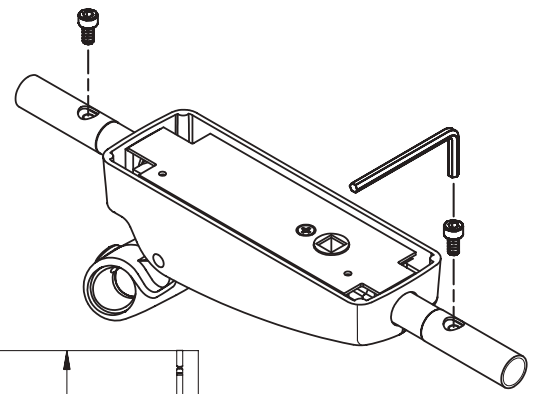


Diagram 4

- 5) Slide three Shoot Guides on to Shoots. Screw Square Shoot End Plugs into Knurled Shoot Plugs of Top and Bottom Shoots. Fit assembled Bolt to door ensuring true vertical alignment of Shoots and Shoot Guides.

NOTE: Do not secure bottom Shoot Guide until step 8.

See Diagram 5

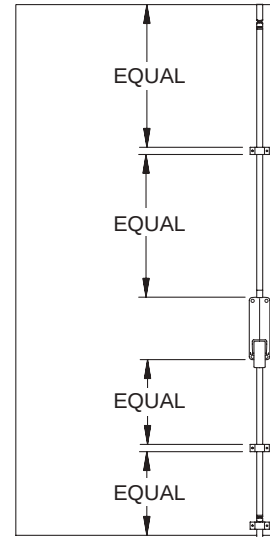


Diagram 5

- 6) Fully depress Push Bar Lever or Push Pad and adjust Square Top Shoot End Plug to give 3-4mm clearance to underside face of soffit.

Ensure that tapered flat faces the door.

See Diagram 6

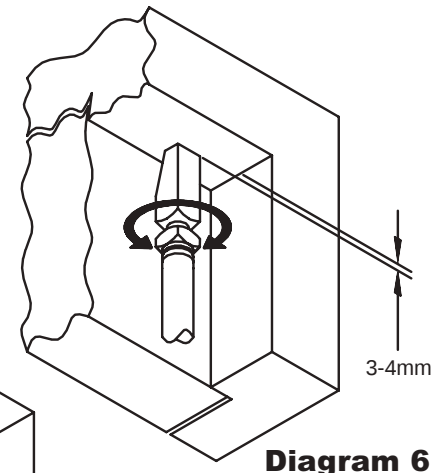


Diagram 6

- 7) Likewise adjust Square Bottom Shoot End Plug to give 6-7mm clearance to finished floor level.

See Diagram 7

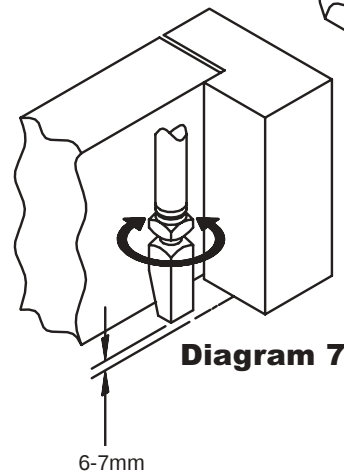


Diagram 7

- 8) Position and secure bottom Shoot Guide. Locate Top Tripper on Square Top Shoot End Plug, depress Push Bar Lever or Push Pad and insert 3-4mm packer (i.e. Allen Key) to retain Shoots. Engage Trip Lever in groove and push Top Tripper upwards to limit of groove and secure to door.

See Diagram 8

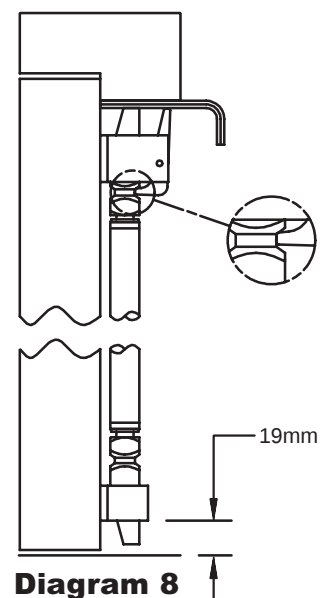


Diagram 8

- 9) Prepare head and threshold for respective keepers.
Ensure that back edges of Top and Bottom Keepers are in line with rebate stop.

See Diagram 9 & 10

- 10) Pull door into closed position and ensure:
- a) that Top Tripper releases against Keeper Plate.
 - b) that both Shoots throw fully and enter their respective Keepers correctly.

- 11) Depress Push Bar Lever or Push Pad and ensure:
- a) that both Shoots withdraw fully from their keepers.
 - b) that Top Tripper engages and retains Shoots in withdrawn condition.
 - c) that Shoots do not foul floor or head. Re-adjust if necessary.

INSTALLATION OF PUSH PAD DEVICE IS NOW COMPLETE. CONTINUE FOR PUSH BAR DEVICE.

- 12) Fit End Box on hanging stile of door ensuring that it is vertical and level with Bolt Box.

See Diagram 11

- 13) Accurately measure distance 'C' across Push Bar Levers, deduct the amount shown, and cut Push Bar to length.

See Diagram 12

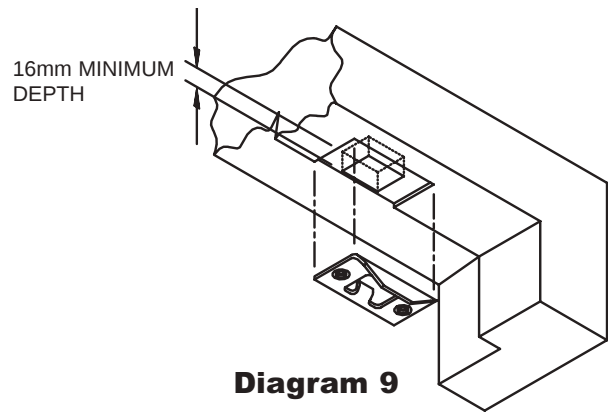


Diagram 9

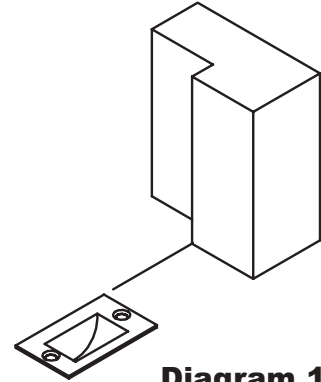


Diagram 10

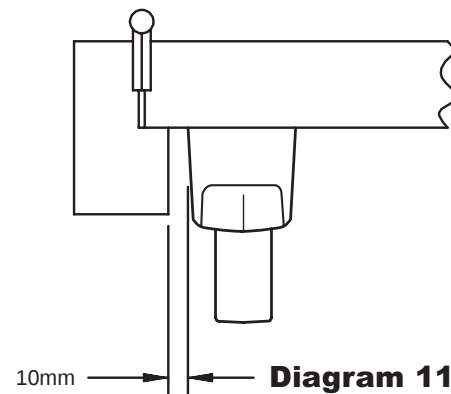


Diagram 11

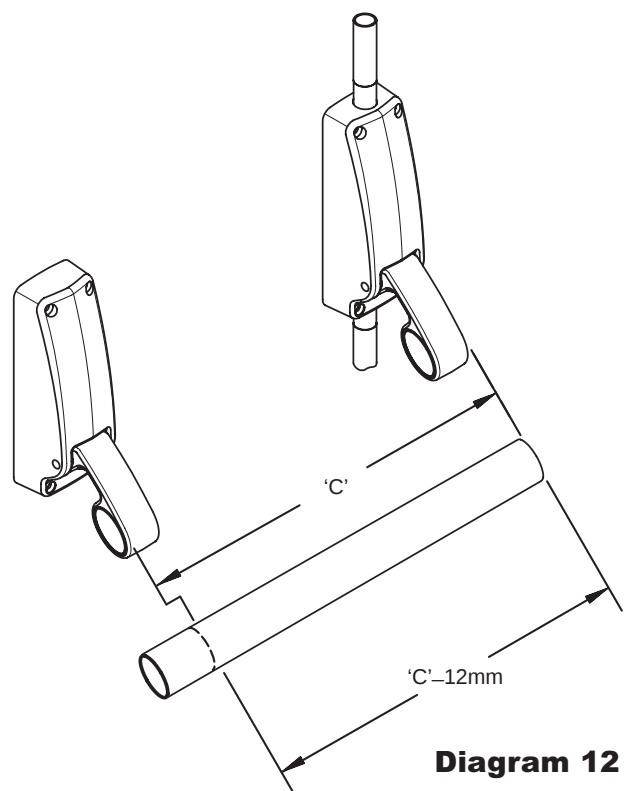


Diagram 12

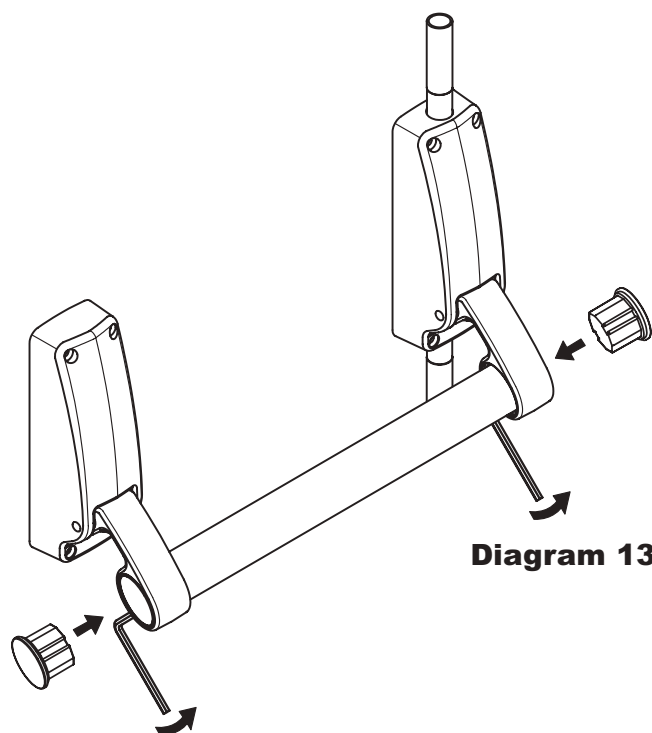
- 14) Insert Push Bar into Levers, insert Plug into each end of Push Bar and flush with face of Levers. Secure Push Bar by tightening Clamp Screws on underside of Levers with Allen Key provided.

NOTE: These screws must be sufficiently tightened to give adequate rigidity of Push Bar.

See Diagram 13

- 15) Again test for correct operation as described in items 10 and 11.

- 16) Adhere green 'Push Bar to Open' sign immediately above the Push Bar.



OPERATIONAL INSTRUCTIONS

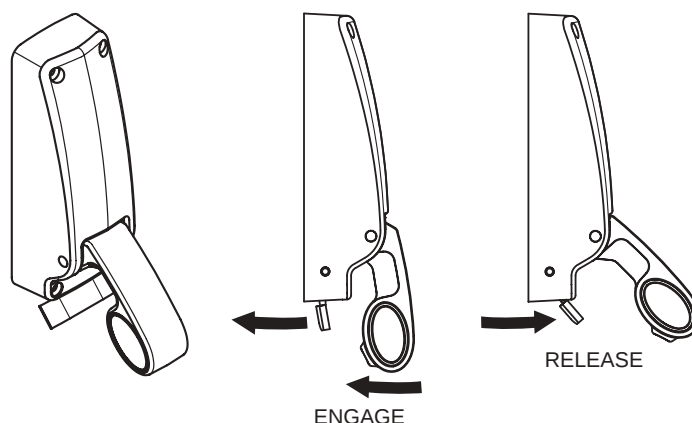
- a) For device arrangements fitted to comply with EN 1125 no instruction of operation is needed for the end users as the device is easily operated by hand or body pressure in a panic situation.
- b) For device arrangements fitted to comply with EN 179 it is recommended that the end users be instructed to operate the Push Pad devices using flat **palm** of the hand.

DOGGING DEVICE

Where provided, this device is incorporated in the End Box of Push Bar devices and enables the Shoots to be held in the withdrawn condition, allowing the door to be used as free-access when required. Installation is described in item 12.

To engage: depress Push Bar and push Dogging Lever towards door face.

To release: Pull Dogging Lever away from door face.



PRODUCT INFORMATION

- Category of projection: Category 2
- Field of door application: Category A
- Resistance of door leaf against pulling force of the recommended fixing screws: 1000N maximum achieved

ADDITIONAL INSTALLATION REQUIREMENTS

- Before installation ensure door and frame are in good condition, correctly hung and not distorted
Note - Maximum door distortion of 5mm to ensure safe exit.
- It is not recommended that exit devices be fitted to hollow core doors unless specially designed for this type of door.
- It is recommended to verify that the door construction allows the use of the device, i.e. to verify that offset hinges and engaging leaves allow both leaves to be opened simultaneously, or to verify that the gap between door leaves does not differ from that defined by the exit device producer, or to verify that the opening elements do not interfere, etc.
- Before fitting an emergency exit device to a fire/smoke resisting door, the fire certification of the fire door assembly on which the exit device has been tested to prove suitability for use on a fire door should be examined. It is of utmost importance that an exit device is not used on a fire door assembly of a greater fire resistance time than approved for.
- Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly does not inhibit the correct operation of the emergency exit device.
- On double door sets with rebated meeting stiles and where both leaves are fitted with emergency exit devices, it is essential to check that either leaf will open when its emergency exit device is activated and also that both leaves will open freely when both emergency exit devices are operated simultaneously.
- Category 2 (Standard projection) emergency exit devices should be used in situations where there is restricted width for escape, or where the doors to be fitted with the emergency exit devices are not able to open beyond 90°
- Different fixing can be necessary for fitting emergency exit devices to wood, metal or frameless glass doors. For more secure fixing, male and female through-door bolts, reinforcement and rivets can be used.
- These exit devices are not intended for use on double action (double swing) doors.
- These fixing instructions should be carefully followed during installation.
These instructions and any maintenance instructions should be passed on by the installer to the user.
- When installing lever operating emergency exit devices, particularly on doors with raised or recessed surfaces, consideration should be given to minimizing any potential safety risks, such as the trapping of fingers or clothing.
- The bolt heads and keepers should be fitted to provide secure engagement. Care should be taken to ensure that no projection of the bolt heads, when in the withdrawn position, can prevent the door swinging freely.
- Where emergency exit devices are to be fitted to double doorsets with rebated meeting stiles and self closing devices, a door coordinator device in accordance with EN 1158 should be fitted to ensure the correct closing sequence of the doors.
This recommendation is particularly important with regard to smoke/fire-resisting door assemblies.
- No devices for securing the door in the closed position should be fitted other than specified in EN 1125 / EN 179.
This does not preclude the installation of self-closing devices.
- If a door closing device is to be used to return the door to the closed position, care should be taken not to impair the use of the doorway by the young, elderly and infirm.
- Where applicable, the "Push to open" sign should be applied on the inside face of the door immediately above the operating element.

MAINTENANCE INSTRUCTIONS

To ensure performance in accordance with the relevant standard, the following routine maintenance checks should be undertaken at intervals of not more than one month.

- a) Inspect and operate the emergency exit device to ensure that all components are in a satisfactory working condition.
Using a force gauge, measure and record the operating forces to release the exit device.
- b) Ensure that the keepers are clean and free from obstruction
- c) Check that the emergency exit device is lubricated if required.
- d) Check that no additional locking devices have been added to the door since its original installation.
- e) Check periodically that all components of the system are still correct in accordance with the list of approved components originally supplied with the system.
- f) Check periodically that the operating element is correctly tightened and, using a force gauge, measure the operating forces to release the exit device.
Check that the operating forces have not changed significantly from the operating forces recorded when originally installed.
- g) Check that all fixing screws are tight.

These instructions should be passed on by the installer to the user on completion of installation.

Additional accessories approved for use with this product

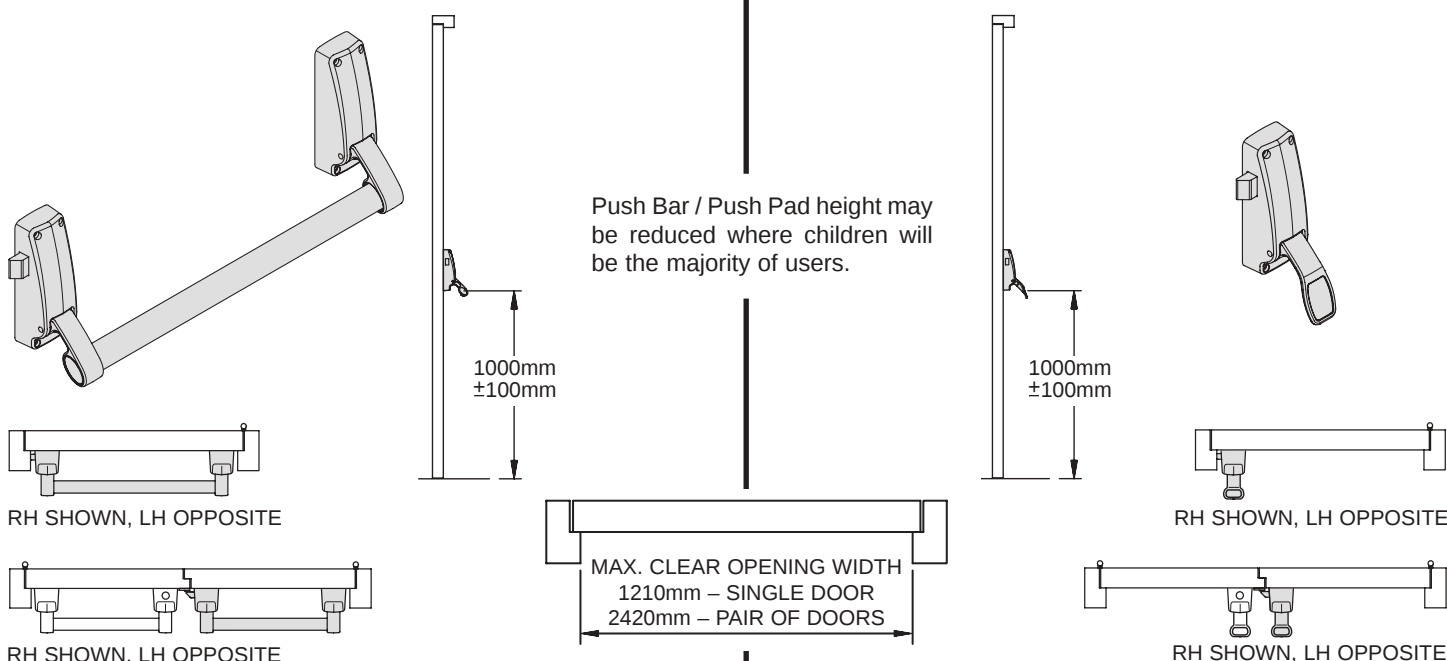
- 1413E Outside access device
- 376FFKP Flush face keeper
- 376MDS Metal door strike

INSTALLATION INSTRUCTIONS

0378/428/00
ISSUE 01

PUSH BAR PANIC LATCH DEVICE TO EN 1125 : 2008

EMERGENCY PUSH PAD LATCH DEVICE TO EN 179 : 2008



TO COMPLY WITH THE ABOVE STANDARDS, DOOR LEAF MUST NOT EXCEED 2500mm HIGH X 1300mm WIDE X 200KG WEIGHT MAX.

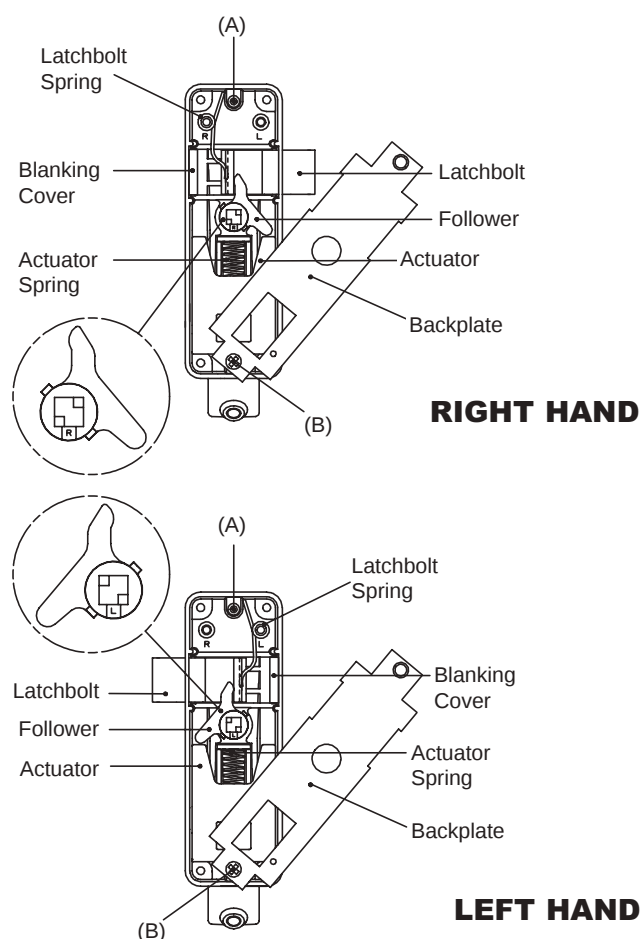
IMPORTANT: THE SAFETY FEATURES OF THESE PRODUCTS ARE ESSENTIAL TO THEIR COMPLIANCE WITH THE ABOVE STANDARDS. NO MODIFICATIONS OF ANY KIND, OTHER THAN THOSE DESCRIBED IN THESE INSTRUCTIONS ARE PERMITTED.

THIS PRODUCT IS INTENDED FOR USE ON SINGLE AND / OR DOUBLE LEAF OUTWARD OPENING FIRE ESCAPE ROUTE DOORS.

THESE DEVICES ARE SUPPLIED TO SUIT EITHER RIGHT OR LEFT HAND DOORS AS SPECIFIED, BUT MAY BE REVERSED IF REQUIRED.

TO REVERSE HANDING PROCEED AS FOLLOWS:

- 1) Remove Backplate screw (A).
- 2) Slacken Backplate screw (B) (2 turns approximately)
- 3) Lift and swing Backplate to position shown in diagram and gently re-tighten screw (B) (this retains Actuator and Spring whilst changing hand).
- 4) Lift out Follower.
- 5) Remove Blanking Cover.
- 6) Disengage Latchbolt Spring and remove from stud.
- 7) Withdraw and remove Latchbolt.
- 8) Replace Latchbolt in opposite side of Case.
- 9) Re-fit Latchbolt Spring over stud marked 'L' or 'R' with straight leg against Case. Deflect curved leg to engage groove at rear of Latchbolt.
- 10) Insert Blanking Cover into aperture on opposite side, ensuring correct engagement of lower edge in Case.
- 11) Insert Follower into Case bearing so that 'L' or 'R' on hub is uppermost (see inset). Ensure that both legs are correctly engaged as shown in diagram.
- 12) Re-fit Backplate and operate to ensure correct action.



INSTALLATION

- 1) Fix Latch Box to door at required Push Bar/Push Pad height, and at a distance from frame or leading edge of second opening leaf of a rebated pair according to application.

See Diagram 1

NOTE: If installing an Outside Access Device mark and prepare door and fix as per separate instructions provided.

or

If installing Rim Key Cylinder see instructions overleaf.

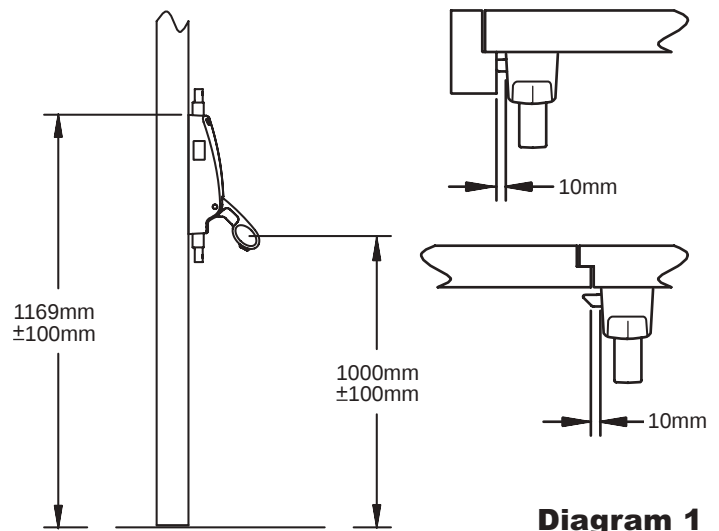


Diagram 1

- 2) Mark on frame position of Latchbolt and from this mark out profile of Striker Plate. Prepare and fix ensuring that Striker Plate is flush with face and edge of stop.

See Diagram 2

or

- 3) For doors with rebated stiles mark position of Latchbolt on to second opening leaf. Prepare and fix Double Door Striker ensuring that tongue is flush with edge of stile.

See Diagram 3

NOTE: Notch for tongue must be cut through full thickness of rebate.

- 4) Pull door into closed position ensuring that:
 - a) Latchbolt retracts smoothly across Striker and fully engages.
 - b) Depress Push Bar Lever or Push Pad to open door ensuring that Latchbolt retracts fully from Striker and permits opening without hindrance.

INSTALLATION OF PUSH PAD DEVICE IS NOW COMPLETE. CONTINUE FOR PUSH BAR DEVICE.

- 5) Fit End Box on hanging stile of door ensuring that it is vertical and level with Latch Box.

See Diagram 4

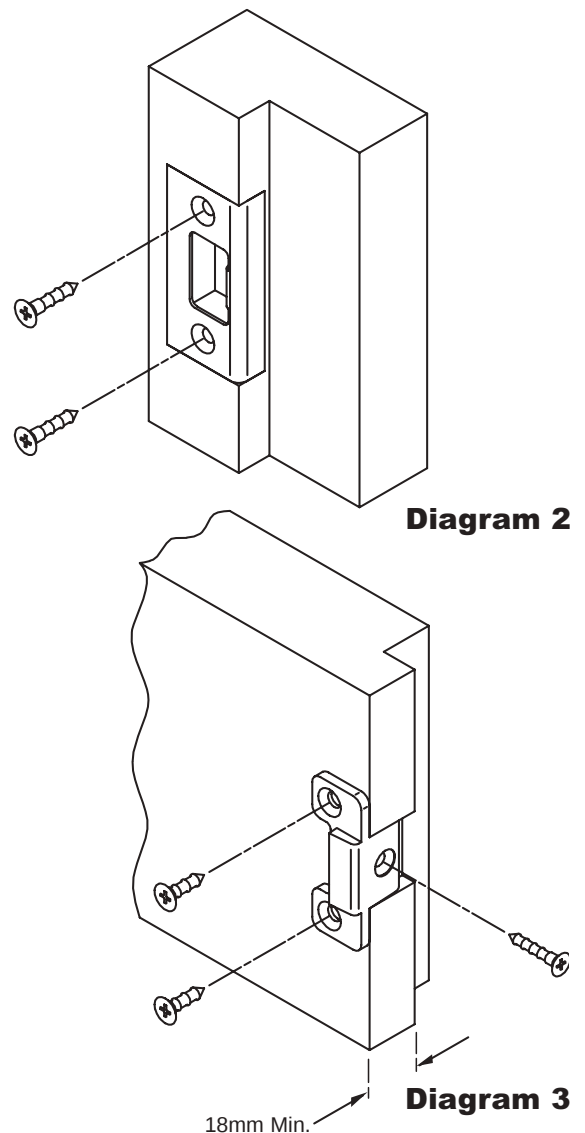


Diagram 2

Diagram 3

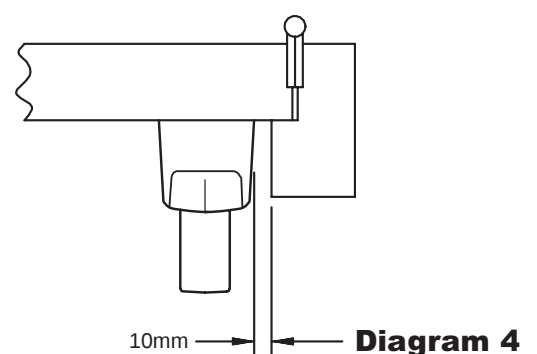


Diagram 4

- 6) Accurately measure distance 'C' across Push Bar Levers, deduct the amount shown, and cut Push Bar to length.

See Diagram 5

- 7) Insert Push Bar into Levers, insert Plug into each end of Push Bar and flush with face of Levers. Secure Push Bar by tightening Clamp Screws on underside of Levers with Allen Key provided.

NOTE: These screws must be sufficiently tightened to give adequate rigidity of Push Bar.

See Diagram 6

- 8) Again test for correct operation as described in item 4.

- 9) Adhere green 'Push Bar to Open' sign immediately above the Push Bar.

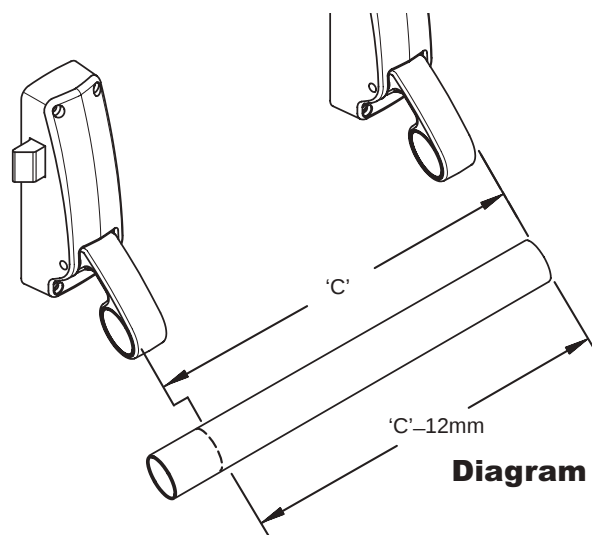


Diagram 5

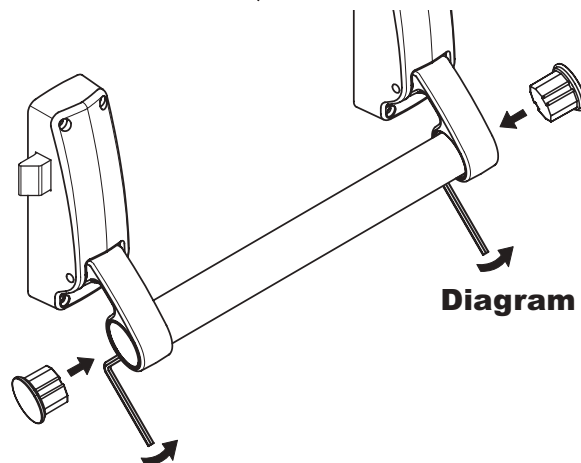


Diagram 6

OPERATIONAL INSTRUCTIONS

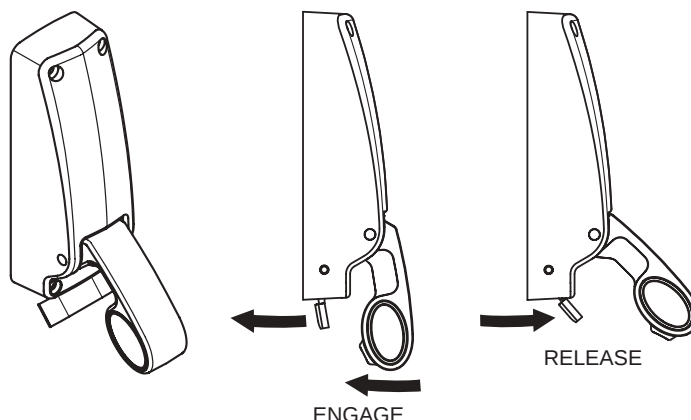
- a) For device arrangements fitted to comply with EN 1125 no instruction of operation is needed for the end users as the device is easily operated by hand or body pressure in a panic situation.
- b) For device arrangements fitted to comply with EN 179 it is recommended that the end users be instructed to operate the Push Pad devices using flat **palm** of the hand.

DOGGING DEVICE

Where provided, this device is incorporated in the End Box of Push Bar devices and enables the Latchbolt to be held in the withdrawn condition, allowing the door to be used as free-access when required. Installation is described in item 5.

To engage: depress Push Bar and push Dogging Lever towards door face.

To release: Pull Dogging Lever away from door face.



PRODUCT INFORMATION

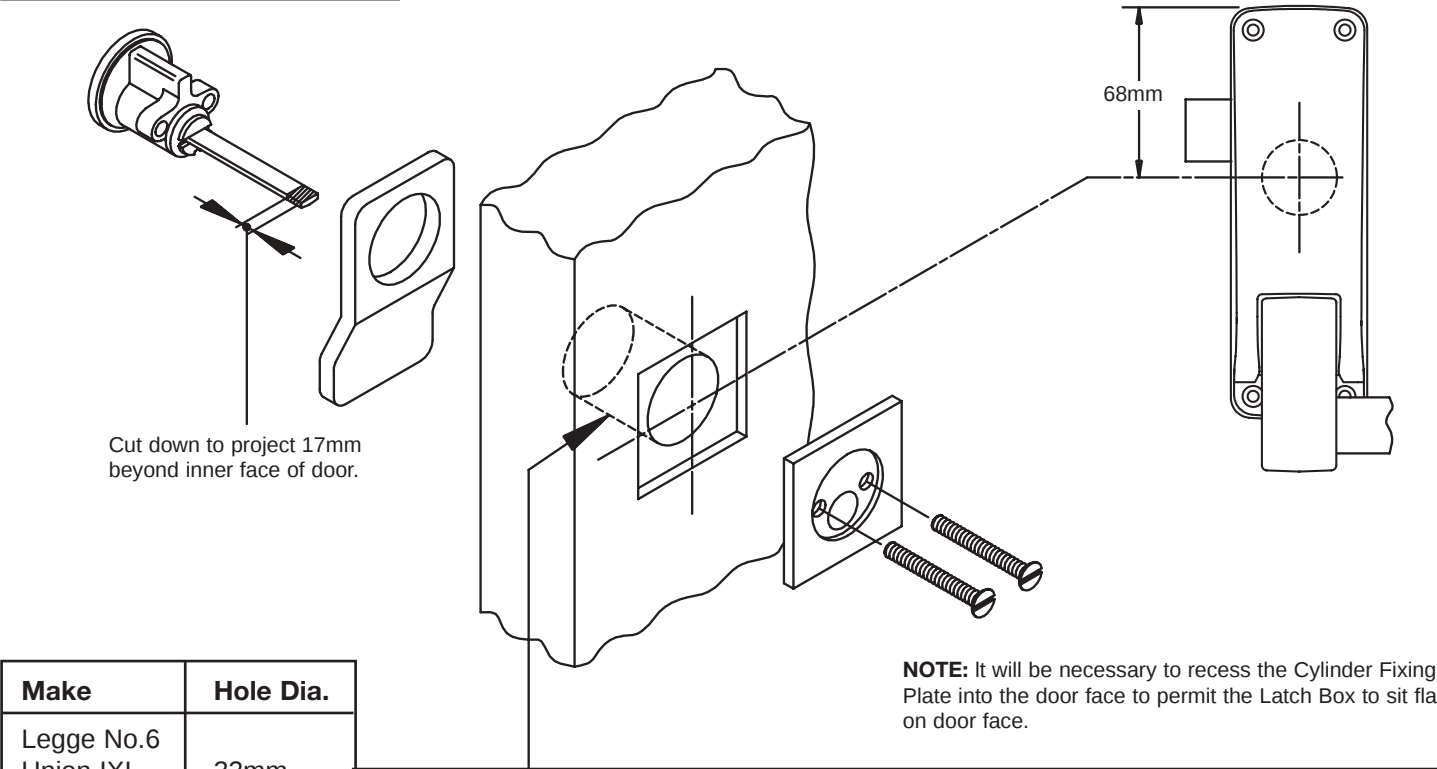
- Category of projection: Category 2
- Field of door application: Category A
- Resistance of door leaf against pulling force of the recommended fixing screws: 1000N maximum achieved

INSTALLATION INSTRUCTIONS FOR RIM KEY CYLINDER

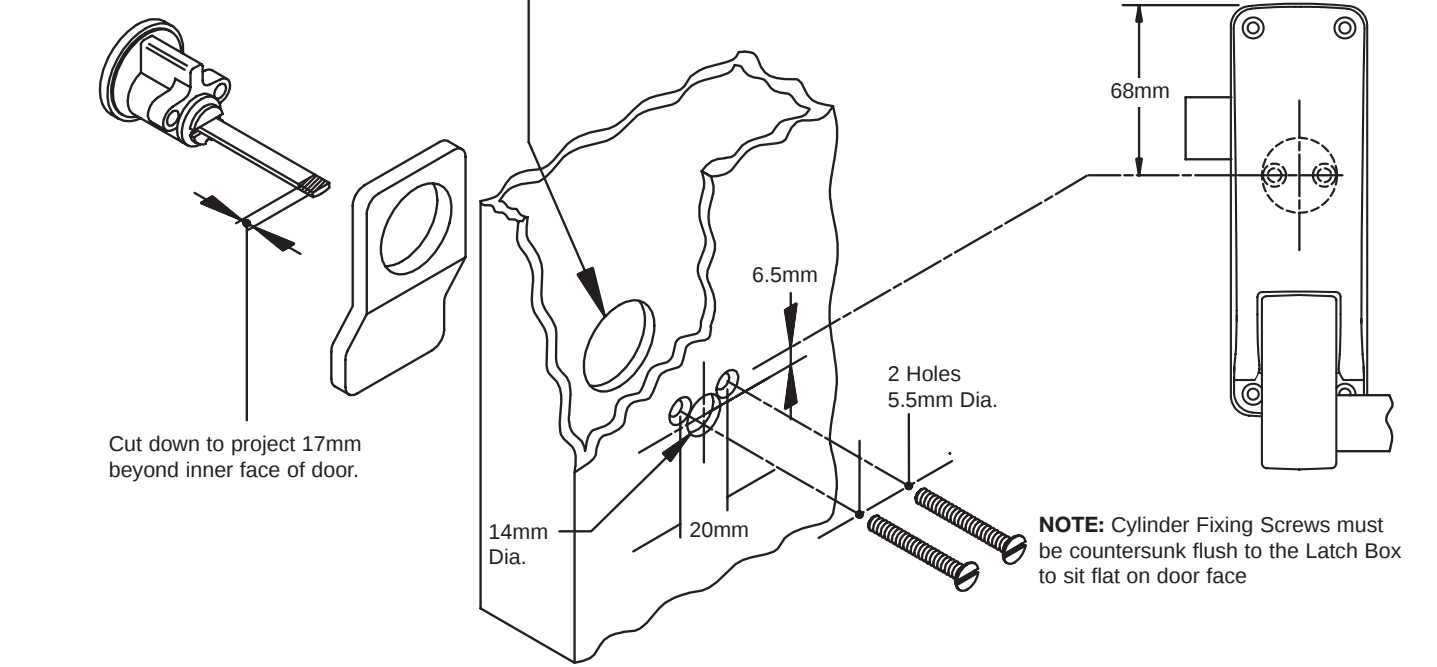
THE FOLLOWING DETAIL APPLIES TO BOTH PUSH BAR AND PUSH PAD DEVICES SHOWN OVERLEAF, WHICH WILL ACCEPT THE FOLLOWING MAKES OF RIM CYLINDER: LEGGE No.6 - UNION IXI - YALE 1109 - TESA. FOR MAKES OF CYLINDER OTHER THAN SHOWN REFER TO SPECIFIC MANUFACTURER.

It is strongly recommended that a Finger Pull or Bow Handle be applied to prevent possible key damage.

TIMBER DOORS



METAL DOORS



WARNING: CHECK AFTER INSTALLATION THAT DEVICE WILL OPERATE FROM INSIDE AT ALL TIMES

ADDITIONAL INSTALLATION REQUIREMENTS

- Before installation ensure door and frame are in good condition, correctly hung and not distorted
Note - Maximum door distortion of 5mm to ensure safe exit.
- It is not recommended that exit devices be fitted to hollow core doors unless specially designed for this type of door.
- It is recommended to verify that the door construction allows the use of the device, i.e. to verify that offset hinges and engaging leaves allow both leaves to be opened simultaneously, or to verify that the gap between door leaves does not differ from that defined by the exit device producer, or to verify that the opening elements do not interfere, etc.
- Before fitting an emergency exit device to a fire/smoke resisting door, the fire certification of the fire door assembly on which the exit device has been tested to prove suitability for use on a fire door should be examined. It is of utmost importance that an exit device is not used on a fire door assembly of a greater fire resistance time than approved for.
- Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly does not inhibit the correct operation of the emergency exit device.
- On double door sets with rebated meeting stiles and where both leaves are fitted with emergency exit devices, it is essential to check that either leaf will open when its emergency exit device is activated and also that both leaves will open freely when both emergency exit devices are operated simultaneously.
- Category 2 (Standard projection) emergency exit devices should be used in situations where there is restricted width for escape, or where the doors to be fitted with the emergency exit devices are not able to open beyond 90°
- Different fixing can be necessary for fitting emergency exit devices to wood, metal or frameless glass doors. For more secure fixing, male and female through-door bolts, reinforcement and rivets can be used.
- These exit devices are not intended for use on double action (double swing) doors.
- These fixing instructions should be carefully followed during installation.
These instructions and any maintenance instructions should be passed on by the installer to the user.
- When installing lever operating emergency exit devices, particularly on doors with raised or recessed surfaces, consideration should be given to minimizing any potential safety risks, such as the trapping of fingers or clothing.
- The bolt heads and keepers should be fitted to provide secure engagement. Care should be taken to ensure that no projection of the bolt heads, when in the withdrawn position, can prevent the door swinging freely.
- Where emergency exit devices are to be fitted to double doorsets with rebated meeting stiles and self closing devices, a door coordinator device in accordance with EN 1158 should be fitted to ensure the correct closing sequence of the doors.
This recommendation is particularly important with regard to smoke/fire-resisting door assemblies.
- No devices for securing the door in the closed position should be fitted other than specified in EN 1125 / EN 179.
This does not preclude the installation of self-closing devices.
- If a door closing device is to be used to return the door to the closed position, care should be taken not to impair the use of the doorway by the young, elderly and infirm.
- Where applicable, the "Push to open" sign should be applied on the inside face of the door immediately above the operating element.

MAINTENANCE INSTRUCTIONS

To ensure performance in accordance with the relevant standard, the following routine maintenance checks should be undertaken at intervals of not more than one month.

- a) Inspect and operate the emergency exit device to ensure that all components are in a satisfactory working condition.
Using a force gauge, measure and record the operating forces to release the exit device.
- b) Ensure that the keepers are clean and free from obstruction
- c) Check that the emergency exit device is lubricated if required.
- d) Check that no additional locking devices have been added to the door since its original installation.
- e) Check periodically that all components of the system are still correct in accordance with the list of approved components originally supplied with the system.
- f) Check periodically that the operating element is correctly tightened and, using a force gauge, measure the operating forces to release the exit device.
Check that the operating forces have not changed significantly from the operating forces recorded when originally installed.
- g) Check that all fixing screws are tight.

These instructions should be passed on by the installer to the user on completion of installation.

Additional accessories approved for use with this product

- 1413E Outside access device
- Legge 816 rim cylinder
- 378DDS Double door strike
- 378MDS Metal door strike

RECOMMENDATION FOR INSTALLATION, FIXING AND MAINTENANCE OF THE PANIC EXIT DEVICES IN ACCORDANCE TO STANDARD EN 1125:2008

WARNING

The safety features of this product are essential to its compliance with EN 1125. No modification of any kind, other than those described in these instructions, are permitted.

ANNEX "A" UNI EN 1125:2008

INSTALLATION AND FIXING INSTRUCTIONS (summary)

The following shall be the minimum information and installation guidance to accompany the panic exit device:

- A.1 The producer shall specify the appropriate fixing arrangements for the door types for which the exit device is designed.
- A.2 Before fitting an exit device on a door, the door should be checked to ensure correct hanging and freedom from binding. It is not recommended for example, that exit devices be fitted to "bottom core" doors unless specially designed by the producer for this type of door. It is recommended to verify that the door construction allows the use of the device, i.e. to verify that offset hinges and engaging leaves allow both leaves to be opened simultaneously (see A.4), or to verify that the gap between door leaves does not differ from that defined by the exit device producer, or to verify that the operating elements do not interfere, etc.
- A.3 Where panic exit devices manufactured in accordance with the European Standard will provide a high degree of safety and reliable security provided that they are fitted to doors and door frames that are in good condition.
- A.4 Before fitting a panic exit device to a fire/smoke resisting door, the fire certification of the fire door assembly on which the exit device has been tested to prove suitability for use on a fire door should be established. It is of utmost importance that an exit device is not used on a fire door assembly of a greater fire resistance than that approved for. See Annex B.
- A.5 Care should be taken to ensure that any seals or weatherstripping fitted to the complete door assembly, does not inhibit the correct operation of the panic exit device.
- A.6 Car double doors will be related in opening and where both leaves are fixed with panic exit devices, it is essential to check that either leaf will open when its panic exit device is activated and also that both leaves will open freely when both panic exit devices are operated simultaneously. The use of a carry bar to move the active leaf may be required for this application.
- A.8 Where panic exit devices are manufactured to more than one size it is important that the correct size is selected.
- A.7 Category 2 (standard projection) panic exit devices should be used in situations where the exit is required without escape, or where the door is to be fitted with the panic exit devices are not able to open beyond 90°.
- A.8 Where a panic exit device is designed to be fitted to a glazed door, it is essential that the glazing is tempered or laminated glass.
- A.9 Exit exit fixing may be necessary for fitting panic exit devices to wood, metal or frameless glass doors. For more secure fixing, male and female threaded holes can be used.
- A.10 Panic exit devices are not intended for use on double action (double swing) doors unless specifically designed by the producer.
- A.11 The fixing instructions should be carefully followed during installation. These instructions and any maintenance instructions should be passed on by the installer to the user. See Annex C.
- A.12 The horizontal bar should normally be installed at a height of between 900 mm and 1,100 mm from the finished floor level, when the door is in the secured position. Where it is known that the majority of the occupants of the premises will be young children, consideration should be given to reducing the height of the bar.
- A.13 The horizontal bar should be installed so as to provide the maximum effective length.
- A.14 The bolt heads and keepers should be fitted to provide secure engagement. Care should be taken to ensure that no projection of the bolt heads, when in the withdrawn position, can prevent the door swinging freely.
- A.15 Where panic exit devices are to be fitted to double doors with rebated meeting stiles and self-closing devices, a door coordinator device in accordance with EN 1125 (see Bibliography) should be fitted to ensure the correct closing sequence of the doors. This recommendation is particularly important with regard to fire/smoke resisting door assemblies.

A.16 No devices for securing the door in the closed position should be fitted other than that specified in the European Standard. This does not preclude the installation of self-closing devices.

A.17 If a door closing device is to be used to return the door to the closed position, care should be taken not to impede the use of the doorway by the young, elderly and infirm.

A.18 Any keepers or protection plates provided should be fitted in order to ensure compliance with the European Standard.

A.19 A sign which reads "Push bar to open" or a pictogram should be provided on the inside face of the door immediately above the horizontal bar, or on the bar if it has a sufficient flat face to take the sign or pictogram required. The surface area of the pictogram should be not less than 8,000 mm² and its colour should be white on a green background. It should be designed such that the arrow points to the operating element, when installed. The pictogram given in Figure A.1 can be used.

Figure A.1



MAINTENANCE INSTRUCTIONS

(REFERENCE TO ANNEX "C" UNI EN 1125:2008)

To ensure performance in accordance with this document, the following routine maintenance checks should be undertaken at intervals of not more than six months:

- a) Inspect and operate the panic exit device to ensure that all components are in a satisfactory working condition; using a force gauge, measure and record the operating forces to release the exit device.
- b) Ensure that the keepers (s) is (are) free from obstruction.
- c) Check that the panic exit device is supported in accordance with the producer's instructions.
- d) Check that no additional locking devices have been added to the door since its original installation.
- e) Check periodically that all components of the system are still correct in accordance with the list of approved components originally supplied with the system.
- f) Check periodically that the operating element is correctly aligned and, using a force gauge, measure the operating forces to release the exit device. Check that the operating forces have not changed significantly from the operating forces recorded when originally installed.

200 Series TECHNICAL DATA

Maintenance

It is important that all a panic and emergency exit hardware devices are inspected and maintained properly to ensure safety is maintained when exiting a building in any situation.

Once the device is fitted regular maintenance is recommended.

Weekly:

- Make sure the Exit Device functions correctly.
- Any fixings that have worked loose should be re-secured
- Any damaged components should be replaced.
- Ensure there are no obstructions which prevent the panic unit from functioning correctly.

Every three months:

- Check for wear, any visible worn components should be replaced.

Fixing / Installation

Installation instructions are supplied with all the Exidor Panic and Emergency Exit Hardware. Provided the instructions are followed and the units are fitted by a competent person the Exidor range will offer a high degree of safety and security. No responsibility can be accepted by the manufacturer if the installation instructions are not followed.

In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

All bars and shoots are cut to the exact size on site and each is supplied with loose end plugs and caps. Unless specified all the Exidor range is supplied with all the necessary fixings for timber frames and doors, however for alternative fixings for steel doors please contact the manufacturer or your supplier.

Construction

The main body and slave units are of die cast aluminium with extruded aluminium guides. The internal components and shoot ends are of solid steel with tubular steel shoots and the latch bolts are in extruded brass.

Passivate Protection

The passivate process gives extra protection to the steel components and is recommended when the product is to be used in harsh conditions, such as outside gates, around swimming pools or coastal areas

Chromating

Chromating offers increased protection to the aluminium components, in harsh condition such as coastal areas or swimming pools.

Standard Sizes

Standard sized units are suitable for doors up to 2440mm high and 1220mm wide. The shoot bolts and cross bars can be cut down on site to suit the door height and width.

Non-Standard Shoot Bolt Lengths

For larger doors above 2440mm height special size Top Shoot Bolt lengths are available up on request. The following lengths are stocked by Fred Duncombe Ltd.

- 1210mm for doors up to 2400mm high (Standard size supplied)
- 1600mm for doors up to 2680mm high
- 2100mm for doors up to 3180mm high

Threshold Seal

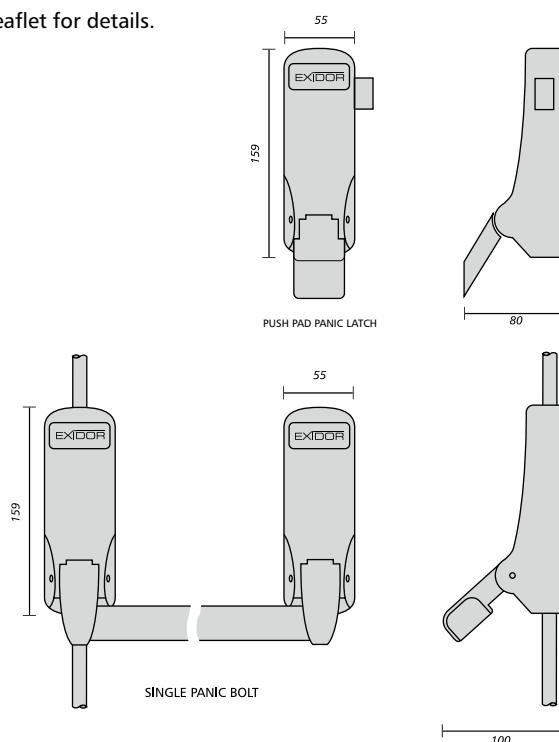
The ES1 threshold seal plate is for outward opening broad butt hinged doors. The seal has been fully tested with the Exidor range of Vertical Bolts and Pullman Catches so that the CE mark and European CEN Standards EN179 and EN1125 are not compromised. The seal meets the requirements of the Disability Discrimination Act 2004 and has been Fire, Smoke and Acoustic tested.

Fire Rating

The Exidor 200 series range is approved by Certifire for use on Timber and Steel Doors to EN1634-1 : 2000. The rating will depend on the certification of the Fire Door. It is important to realise that the hardware is required for the first part of the test until the door is sealed into the frame, after this period of time the fire door is then responsible for sealing off the area.

Mechanical Code Lock

The Exidor Push Button Mechanical Code Lock allows access from the outside of a door without compromising the safety on the inside. For use with the Exidor 200 series latch units. See Exidor Code Lock leaflet for details.



200 Series TECHNICAL DATA

Technical Parts List - 200 series

1. Oval Push Bar
2. Top Shoot Tube
3. Bottom Shoot Tube
4. Guide
5. Push Bar Panic Bolt Assembly
6. Slave Unit
7. Push Pad Panic Bolt Assembly
8. Push Bar End Plugs
9. Push Pad Label
10. Foil Label
11. Top Trip Assembly
12. Top Shoot End Stud
13. Bottom Shoot End Plug
14. Bottom Guide
15. Bottom Socket Plate



CROSS BAR UNITS

EN1125 : 1997 + A1 : 2001

Classification No.

3 7 6 1 1 3 2 2 A

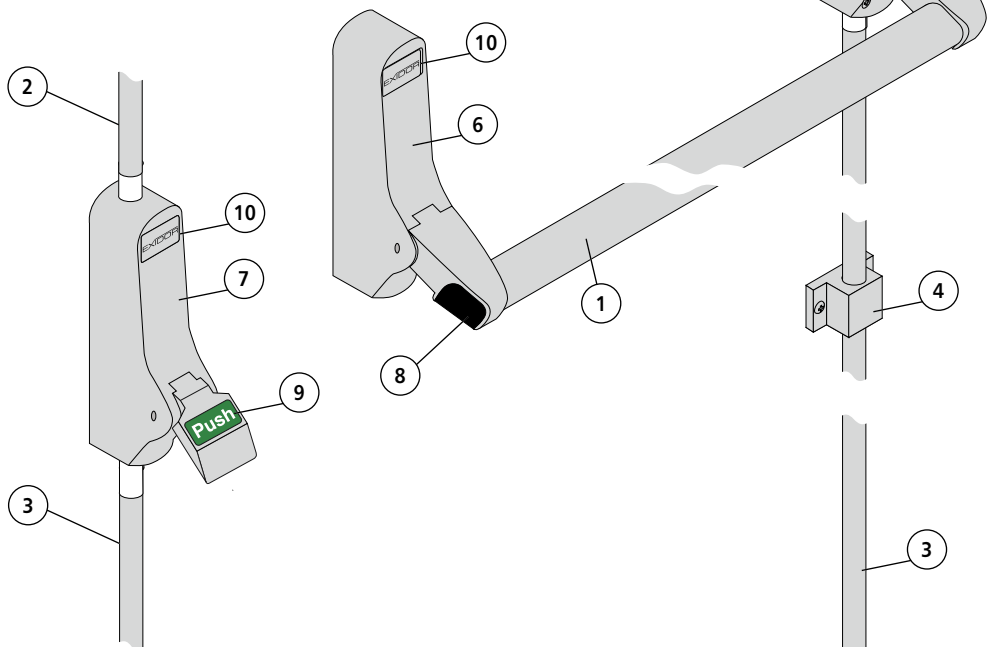
PUSH PAD UNITS

EN179 : 1997 + A1 : 2001

Classification No.

3 7 6 1 1 3 4 2 B

PARTS FOR PUSH BAR PANIC BOLT



PARTS FOR PUSH PAD PANIC BOLT

300 Series TECHNICAL DATA

Maintenance

It is important that all a panic and emergency exit hardware devices are inspected and maintained properly to ensure safety is maintained when exiting a building in any situation.

Once the device is fitted regular maintenance is recommended.

Weekly:

- Make sure the Exit Device functions correctly.
- Any fixings that have worked loose should be re-secured
- Any damaged components should be replaced.
- Ensure there are no obstructions which prevent the panic unit from functioning correctly.

Every three months:

- Check for wear, any visible worn components should be replaced.

Fixing / Installation

Installation instructions are supplied with all the Exidor Panic and Emergency Exit Hardware. Provided the instructions are followed and the units are fitted by a competent person the Exidor range will offer a high degree of safety and security. No responsibility can be accepted by the manufacturer if the installation instructions are not followed.

In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

All bars and shoots are cut to the exact size on site and each is supplied with loose end plugs and caps. Unless specified all the Exidor range is supplied with all the necessary fixings for timber frames and doors, however for alternative fixings for steel doors please contact the manufacturer or your supplier.

Construction

The main body and slave units are of die cast aluminium with extruded aluminium guides. The internal components and shoot ends are of solid steel with tubular steel shoots and the latch bolts are in extruded brass.

Passivate Protection

The passivate process gives extra protection to the steel components and is recommended when the product is to be used in harsh conditions, such as outside gates, around swimming pools or coastal areas

Chromating

Chromating offers increased protection to the aluminium components, in harsh condition such as coastal areas or swimming pools.

Standard Sizes

Standard sized units are suitable for doors up to 2440mm high and 1220mm wide. The shoot bolts and cross bars can be cut down on site to suit the door height and width.

Non-Standard Shoot Bolt Lengths

For larger doors above 2440mm height special size Top Shoot Bolt lengths are available up on request. The following lengths are stocked by Fred Duncombe Ltd.

- 1210mm for doors up to 2400mm high (Standard size supplied)
- 1600mm for doors up to 2680mm high
- 2100mm for doors up to 3180mm high

Threshold Seal

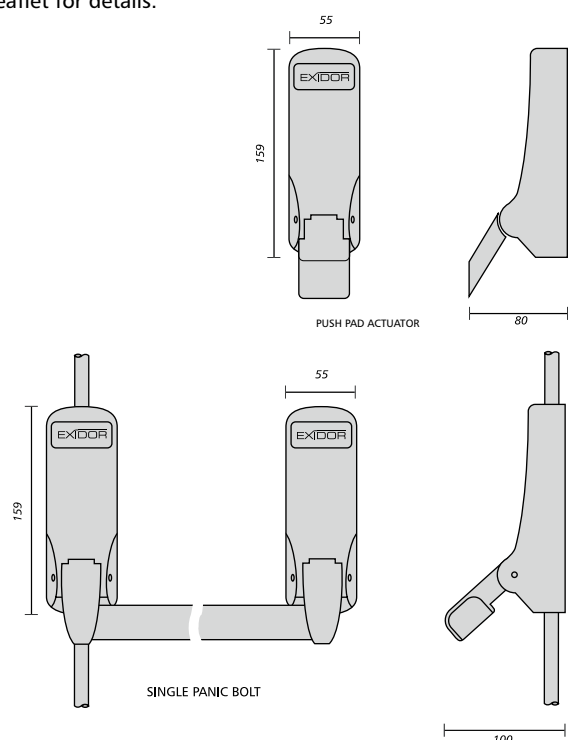
The ES1 threshold seal plate is for outward opening broad butt hinged doors. The seal has been fully tested with the Exidor range of Vertical Bolts and Pullman Catches so that the CE mark and European CEN Standards EN179 and EN1125 are not compromised. The seal meets the requirements of the Disability Discrimination Act 2004 and has been Fire, Smoke and Acoustic tested.

Fire Rating

The Exidor 300 series range is approved by Certifire for use on Timber and Steel Doors to EN1634-1 : 2000. The rating will depend on the certification of the Fire Door. It is important to realise that the hardware is required for the first part of the test until the door is sealed into the frame, after this period of time the fire door is then responsible for sealing off the area.

Mechanical Code Lock

The Exidor Push Button Mechanical Code Lock allows access from the outside of a door without compromising the safety on the inside. For use with the Exidor 300 series actuator units. See Exidor Code Lock leaflet for details.



300 Series TECHNICAL DATA

Technical Parts List - 300 series

1. Oval Push Bar
2. Top Shoot Tube
3. Bottom Shoot Tube
4. Guide
5. Push Bar Panic Bolt Assembly
6. Slave Unit
7. Push Pad Panic Bolt Assembly
8. Push Bar End Plugs
9. Push Pad Label
10. Foil Label
11. Vertical Pullman Assembly
12. Vertical Pullman Cover
13. Horizontal Pullman Assembly
14. Horizontal Pullman Cover
15. Pullman Keep



CROSS BAR UNITS

EN1125 : 1997 + A1 : 2001

Classification No.

3 7 6 1 1 3 2 2 A

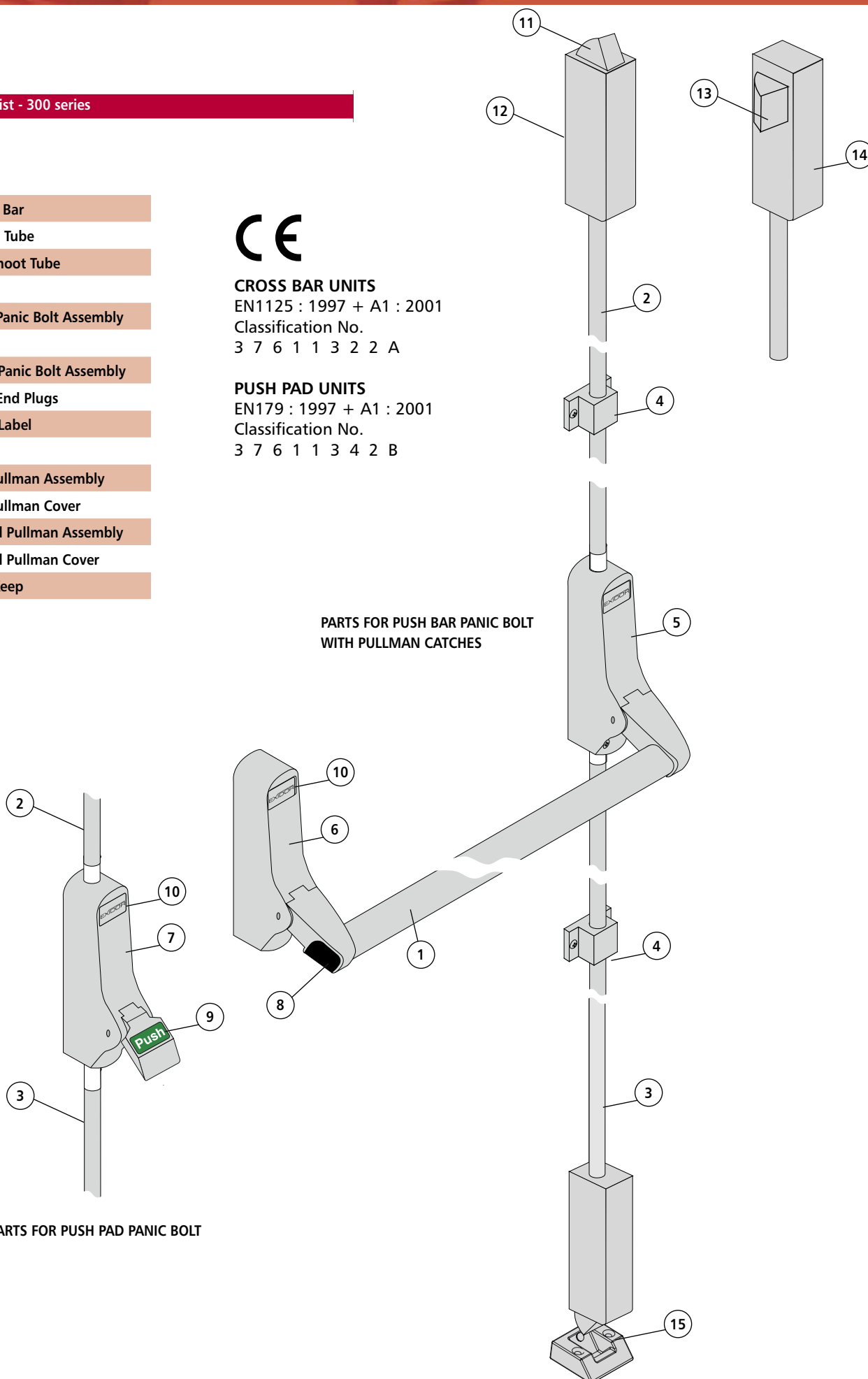
PUSH PAD UNITS

EN179 : 1997 + A1 : 2001

Classification No.

3 7 6 1 1 3 4 2 B

PARTS FOR PUSH BAR PANIC BOLT WITH PULLMAN CATCHES



PARTS FOR PUSH PAD PANIC BOLT

400 Series TECHNICAL DATA

The Touch Bars are non-handed and Certified to EN1125 with a number of products in the range Certifire Approved for use on Timber and Steel Doors. The range has been certified for doors up to 2500mm high and 1300mm wide. All Touch Bars are available with a built-in Dogging Device on request. For doors that have a glass panel, it is recommended that a diagram showing the position of the glass is supplied with the order so that the units can be manufactured to the correct size.

Maintenance

It is important that all a panic and emergency exit hardware devices are inspected and maintained properly to ensure safety is maintained when exiting a building in any situation.

Once the device is fitted regular maintenance is recommended.

Weekly:

- Make sure the Exit Device functions correctly.
- Any fixings that have worked loose should be re-secured
- Any damaged components should be replaced.
- Ensure there are no obstructions which prevent the panic unit from functioning correctly.

Every three months:

- Check for wear, any visible worn components should be replaced.

Fixing / Installation

Installation instructions are supplied with all the Exidor Panic and Emergency Exit Hardware. Provided the instructions are followed and the units are fitted by a competent person the Exidor range will offer a high degree of safety and security. No responsibility can be accepted by the manufacturer if the installation instructions are not followed.

In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

The Touch Bar cross channel sections cannot be altered on site, therefore any change in size must be carried out by the manufacturer at the factory. The allthread, top and bottom channels are cut on site to suit the door height.

Construction

The main body of the Touch Bar range is manufactured from rolled steel section. The internal components are Zinc Plated Steel and Pressured Diecast Aluminium and the Latch Bolts and Catches are Stainless Steel with a Diecast Aluminium Cover.

Passivate Protection

The passivate process gives extra protection to the steel components and is recommended when the product is to be used in harsh conditions, such as outside gates, around swimming pools or coastal areas

Chromating

Chromating offers increased protection to the aluminium components, in harsh condition such as coastal areas or swimming pools.

Standard Sizes

Two Standard sized units are available; Exidor 400, 402, 404, 413, 416, 418 & 420 - which are 660mm wide to suit doors up to 900mm wide and a minimum opening of 692mm between the door frames. Exidor 401, 403, 405, 414, 417, 419 & 421 - which is 840mm wide to suit doors up to 1200mm wide. and a minimum opening of 872mm between the door frames. Each Touch Bar will suit doors up to 2440mm high. For doors outside this scope special sizes are available.

Non-Standard Shoot Bolt Lengths

The Exidor Touch Bars have the advantage that special sizes can be supplied by Fred Duncombe Ltd on request, thus eliminating any adjustments on site which can lead to components being mislaid or Touch Bars being re-assembled incorrectly. The minimum cut down size of a Touch Bar unit is 350mm to suit an opening width of 382mm between the door frames. For Alarmed and Micro-switch units the minimum cut down size is 500mm to suit an opening of 532mm.

Threshold Seal

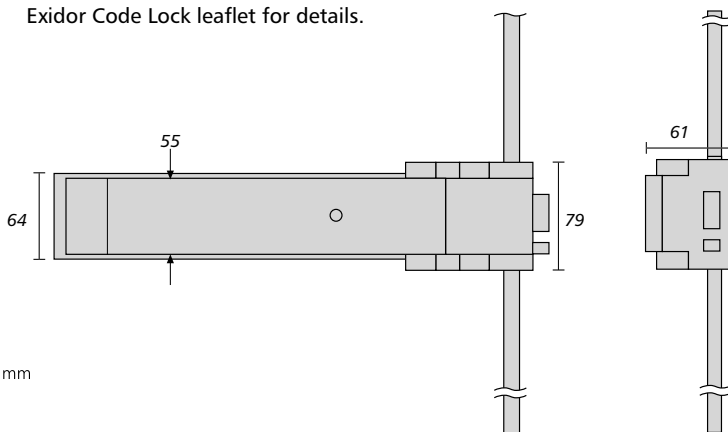
The ES1 threshold seal plate is for outward opening broad butt hinged doors. The seal has been fully tested with the Exidor range of Vertical Bolts and Pullman Catches so that the CE mark and European CEN Standards EN179 and EN1125 are not compromised. The seal meets the requirements of the Disability Discrimination Act 2004 and has been Fire, Smoke and Acoustic tested.

Fire Rating

The Exidor 400 series range is approved by Certifire for use on Timber and Steel Doors to EN1634-1 : 2000. The rating will depend on the certification of the Fire Door. It is important to realise that the hardware is required for the first part of the test until the door is sealed into the frame, after this period of time the fire door is then responsible for sealing off the area.

Mechanical Code Lock

The Exidor Push Button Mechanical Code Lock allows access from the outside of a door without compromising the safety on the inside. For use with the Exidor 400 series single, two and three point units. See Exidor Code Lock leaflet for details.



400 Series TECHNICAL DATA

Technical Parts List - 400 series

1. Top Touch Bar Channel
2. Top Allthread Cover
3. Bottom Allthread Cover
4. Bottom Touch Bar Channel
5. Touch Bar Head Cover
6. Touch Bar End Cap
7. Horizontal Pullman Assembly
8. Horizontal Pullman Cover
9. Vertical Pullman Assembly
10. Vertical Pullman Cover
11. Pullman Keep
12. Centre Unit Keep

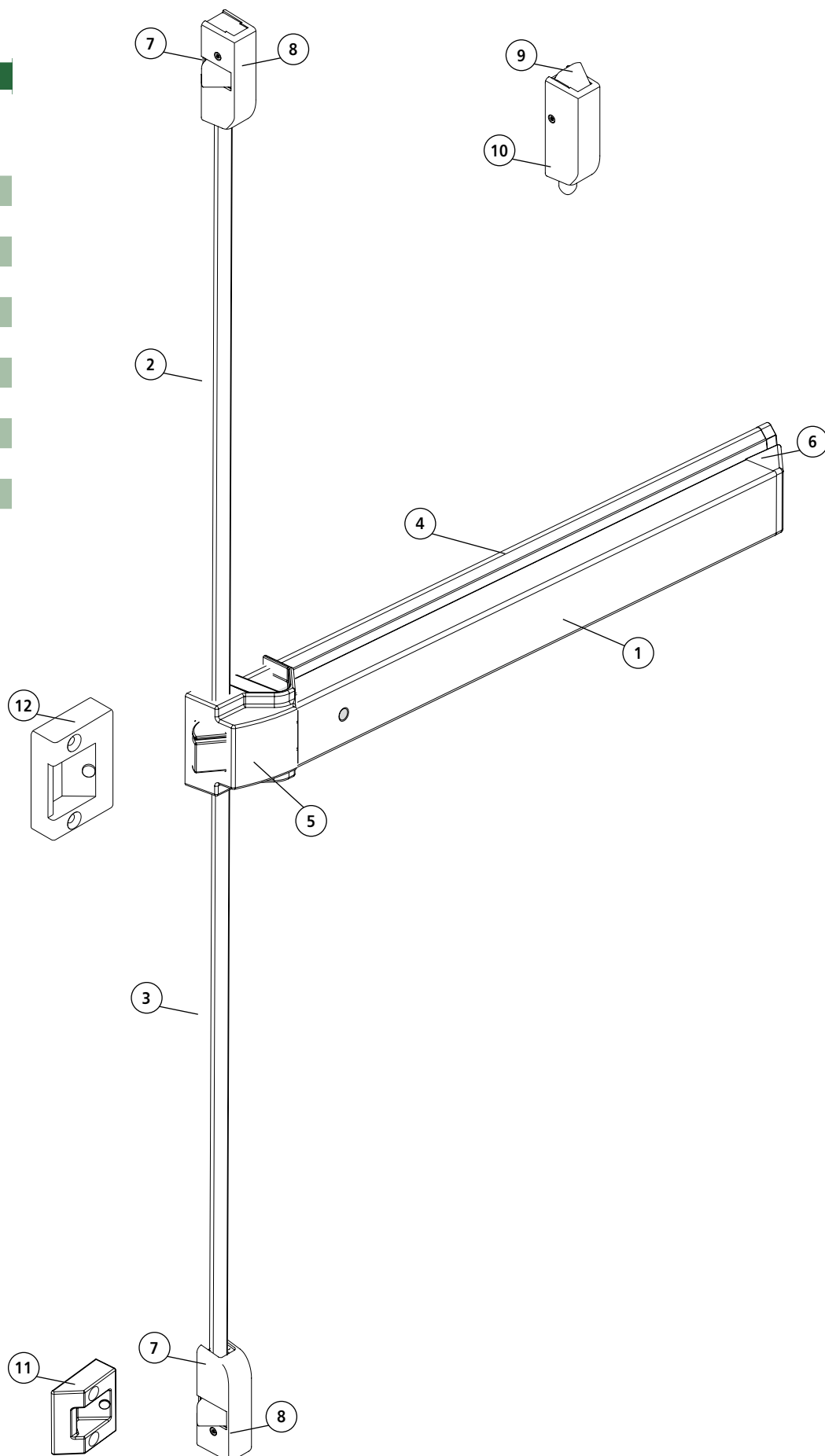


TOUCH BAR UNITS

EN1125 : 1997 + A1 : 2001

Classification No.

3 7 6 1 1 3 2 2 B



500 Series TECHNICAL DATA

International Patent Application No. PCT/GB2006/002848

The 500 Series Panic & Emergency Exit Hardware range is non-handed and Certified to EN1125 & EN179. The range has been certified for doors up to 2500mm high and 1300mm wide and is available with Traditional Style Bolts and Pullman Catches.

Maintenance

It is important that all a panic and emergency exit hardware devices are inspected and maintained properly to ensure safety is maintained when exiting a building in any situation.

Once the device is fitted regular maintenance is recommended.

Weekly:

- Make sure the Exit Device functions correctly.
- Any fixings that have worked loose should be re-secured
- Any damaged components should be replaced.
- Ensure there are no obstructions which prevent the panic unit from functioning correctly.

Every three months:

- Check for wear, any visible worn components should be replaced.

Fixing / Installation

Installation instructions are supplied with all the Exidor Panic and Emergency Exit Hardware. Provided the instructions are followed and the units are fitted by a competent person the Exidor range will offer a high degree of safety and security. No responsibility can be accepted by the manufacturer if the installation instructions are not followed.

In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

All bars and shoots are cut to the exact size on site.

Construction

The main body, slave unit and a number of internal components are manufactured from Zinc Diecasting, Steel is used for the Shoot Ends and Shoot Bolts, whilst the Guides are made from Aluminium. The Pullman Catches are Stainless Steel with a Diecast Aluminium Cover.

Passivate Protection

The passivate process gives extra protection to the steel components and is recommended when the product is to be used in harsh conditions, such as outside gates, around swimming pools or coastal areas

Chromating

Chromating offers increased protection to the aluminium components, in harsh condition such as coastal areas or swimming pools.

Standard Sizes

Standard sized units are suitable for doors up to 2440mm high and 1220mm wide. The shoot bolts and cross bars can be cut down on site to suit the door height and width.

Non-Standard Shoot Bolt Lengths

For larger doors above 2440mm height special size Top Shoot Bolt lengths are available up on request. The following lengths are stocked by Fred Duncombe Ltd.

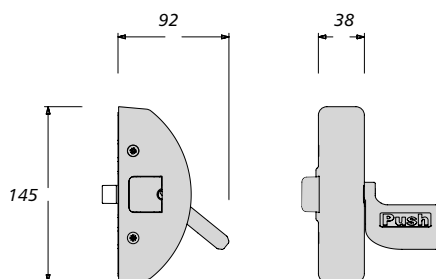
- 1210mm for doors up to 2400mm high (Standard size supplied)
- 1600mm for doors up to 2680mm high
- 2100mm for doors up to 3180mm high

Threshold Seal

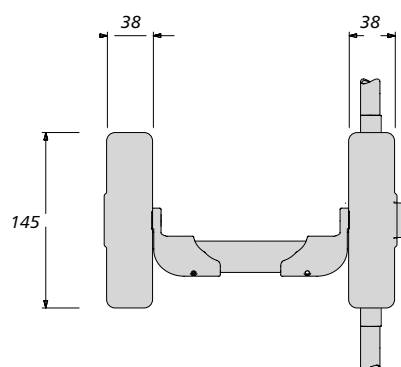
The ES1 threshold seal plate is for outward opening broad butt hinged doors. The seal has been fully tested with the Exidor range of Vertical Bolts and Pullman Catches so that the CE mark and European CEN Standards EN179 and EN1125 are not compromised. The seal meets the requirements of the Disability Discrimination Act 2004 and has been Fire, Smoke and Acoustic tested.

Mechanical Code Lock

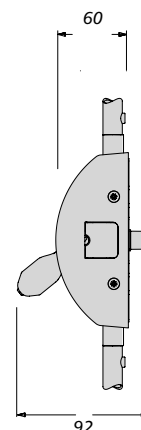
The Exidor Push Button Mechanical Code Lock allows access from the outside of a door without compromising the safety on the inside. For use with the Exidor 500 range including Bolts, Latches and Pullmans.



PUSH PAD PANIC LATCH



PUSH PAD PANIC BOLT



500 Series TECHNICAL DATA

Technical Parts List - 500 series

1. Oval Push Bar
2. Top Shoot Tube
3. Bottom Shoot Tube
4. Guide
5. Push Bar Panic Bolt Assembly
6. Slave Unit
7. Push Pad Panic Bolt Assembly
8. Push Pad Label
9. Top Trip Assembly
10. Top Shoot End Stud
11. Bottom Shoot End Plug
12. Bottom Guide
13. Bottom Socket Plate
14. Vertical Pullman Cover
15. Vertical Pullman Assembly
16. Horizontal Pullman Assembly
17. Horizontal Pullman Cover



CROSS BAR UNITS

EN1125 : 1997 + A1 : 2001

Classification No.

3 7 6 0 1 3 2 2 A

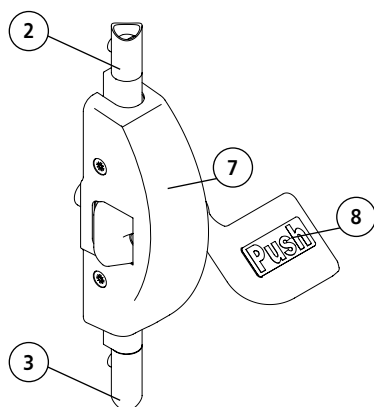
PUSH PAD UNITS

EN179 : 1997 + A1 : 2001

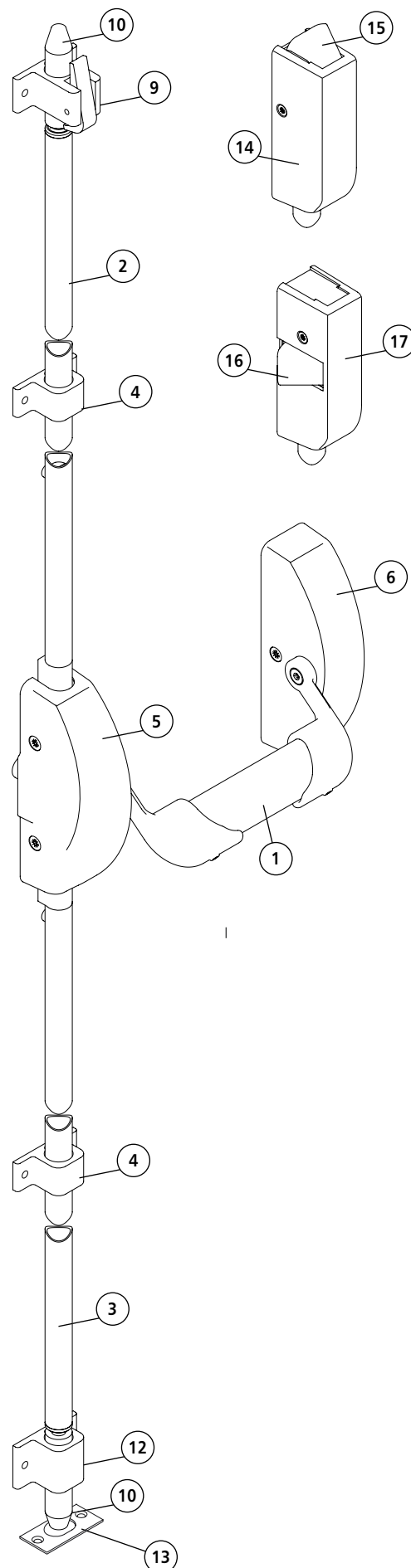
Classification No.

3 7 6 0 1 3 2 2 B

PARTS FOR PUSH BAR PANIC BOLT



PARTS FOR PUSH PAD PANIC BOLT



International Patent Application No. PCT/GB2006/002848

700 Series TECHNICAL DATA

The 700 Series Panic & Emergency Exit Hardware range is non-handed and Certified to EN1125 & EN179. The range has been certified for doors up to 2500mm high and 1300mm wide and is available with Traditional Style Bolts.

The units are available with a 30mm or 19mm bolt throw, which have + or - 5mm of adjustment and are operated by a 22mm lever handle or cross bar. The range can also be made secure using the Locking Box or Rim Deadlock.

The product has been successfully used in a Burglary Resistance Test LPS 1175 Level 4.

Maintenance

It is important that all a panic and emergency exit hardware devices are inspected and maintained properly to ensure safety is maintained when exiting a building in any situation.

Once the device is fitted regular maintenance is recommended.

Weekly:

- Make sure the Exit Device functions correctly.
- Any fixings that have worked loose should be re-secured
- Any damaged components should be replaced.
- Ensure there are no obstructions which prevent the panic unit from functioning correctly.

Every three months:

- Check for wear, any visible worn components should be replaced.

Fixing / Installation

Installation instructions are supplied with all the Exidor Panic and Emergency Exit Hardware. Provided the instructions are followed and the units are fitted by a competent person the Exidor range will offer a high degree of safety and security. No responsibility can be accepted by the manufacturer if the installation instructions are not followed.

In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

All bars and shoots are cut to the exact size on site and each is supplied with loose end plugs and caps. Unless specified all the Exidor range is supplied with all the necessary fixings for timber frames and doors, however for alternative fixings for steel doors please contact the manufacturer or your supplier.

Construction

The main body and slave unit for the 700 Series uses a Steel Strap for the construction of the bodies with the arms and front face manufactured from cast steel. Steel is also used for internal components, shoot ends, shoot bolts and guides.

The Outside Access Device is manufactured from Cast Stainless Steel and is fitted with a 45mm Grade 4 Euro Profile Security Cylinder.

Passivate Protection

The passivate process gives extra protection to the steel components and is recommended when the product is to be used in harsh conditions, such as outside gates, around swimming pools or coastal areas

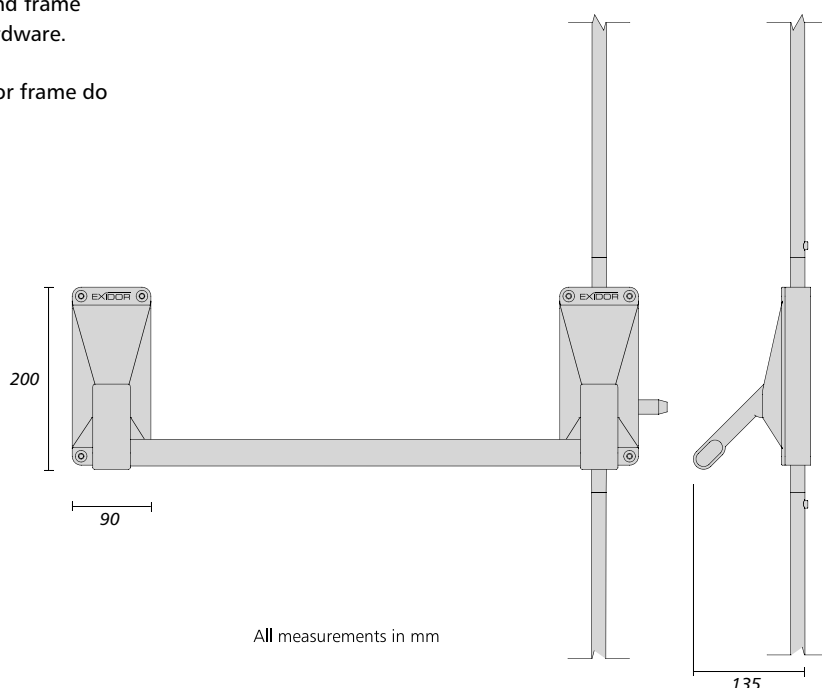
Standard Sizes

Standard sized units are suitable for doors up to 2440mm high and 1220mm wide. The shoot bolts and cross bars can be cut down on site to suit the door height and width.

Non-Standard Shoot Bolt Lengths

For larger doors above 2440mm height special size Top Shoot Bolt lengths are available up on request. The following lengths are stocked by Fred Duncombe Ltd.

- 1210mm for doors up to 2400mm high (Standard size supplied)
- 1600mm for doors up to 2680mm high
- 2100mm for doors up to 3180mm high



700 Series TECHNICAL DATA

Technical Parts List - 700 series

1. Oval Push Bar
2. Top Shoot Bolt
3. Bottom Shoot Bolt
4. Guide
5. Top Trip Assembly
6. Bottom Guide
7. Bottom Socket Plate
8. Push Bar Mechanism Unit
9. Push Bar Slave Unit
10. Lever Handle Mechanism Unit
11. 4th Locking Point Shoot Tube
12. Top Shoot End Stud
13. Bottom Shoot End Plug
14. Slave Unit Arm Assembly
15. Mechanism Unit Arm Assembly
16. Lever Handle Assembly
17. Oval Push Bar End Plugs
18. Top Trip Plate



CROSS BAR UNITS

EN1125 : 1997 + A1 : 2001

Classification No.

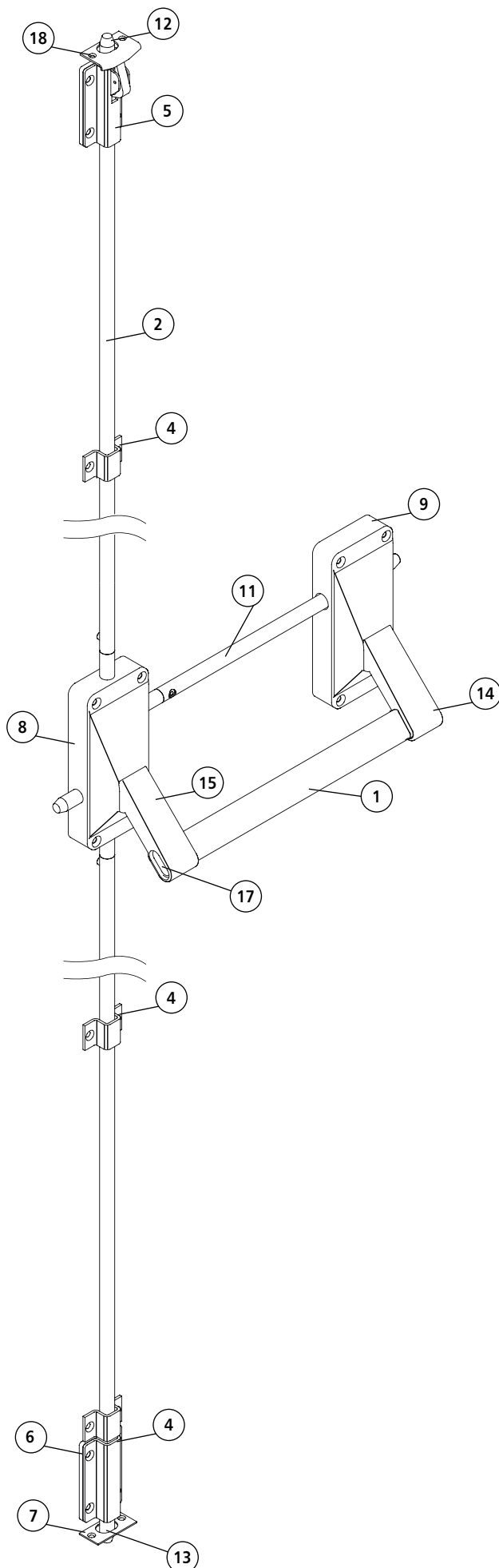
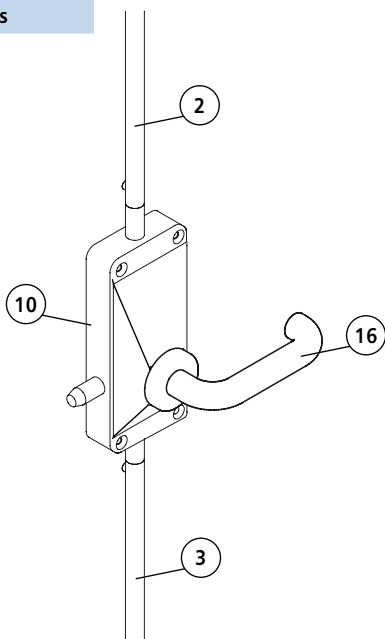
3 7 6 0 1 3 2 1 A

LEVER HANDLE UNITS

EN179 : 1997 + A1 : 2001

Classification No.

3 7 6 0 1 3 4 1 A



2C2 - 72mm lockcases (55mm backset)

L2C22

Euro Profile Mortice Deadlock



Application:

- For timber doors hinged on the left or right
- Also suitable for steel & composite doors - special fixings required

Specification:

- Modular case range
- European style casing with 72mm centres which accommodates most euro profile cylinders
- Deadbolt locked by cylinder key or turn
- Double throw - 20mm deadbolt throw when key is turned twice
- Pierced to accept security rose fixings
- Available with radiused (R) or square (S) forend and strike
- Case Size: 83mm
- Backset: 55mm
- Case: Steel, black powder coat
- Outer Forend: See finishes below
- Striking Plate: Finished to match outer forend
- Deadbolt: Stainless steel
- Latch Bolt: n/a
- Follower: n/a
- Cylinder Type: Euro profile (not supplied)
- Available in SS finish as standard
- Also available in PS and PB finishes upon request

Finish:

- SS - Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass finish



Standards:

- Tested to BS EN 12209 : 2003

3	M	4	1	0	F	2	B	C	0	0
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- EN 1634-1 assessed for use on 60 minutes timber fire doors
- EC Certificate number: 0832-CPD-6045
- Assists in fulfilling duties required under the Equality Act (EA)
- Satisfies recommendations of BS8300 and Approved Document M (ADM)



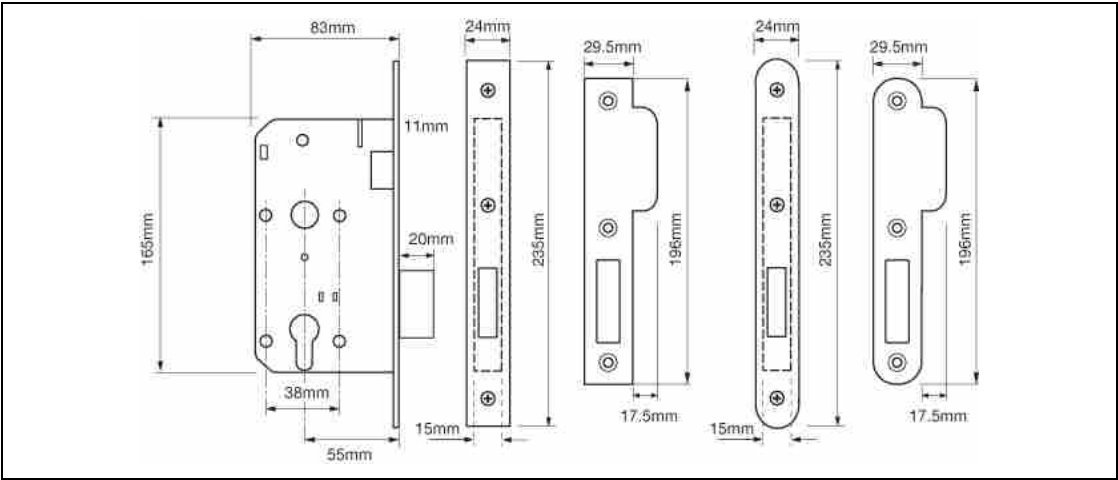
2C2 - 72mm lockcases (55mm backset)

L2C22

Euro Profile Mortice Deadlock



Technical Design:



Variants:

JL2C22R-SS55	Cylinder Mortice Sashlock - Case Only
JL2C22S-SS55	Cylinder Mortice Sashlock - Case Only

2C2 - 72mm lockcases (55mm backset)

L2C26

Euro Profile Mortice Escape Sash Lock



Application:

- For timber doors hinged on the left or right
- Also suitable for steel & composite doors - special fixings required
- Sprung bolt-through lever handles must be used with this lock

Specification:

- European style casing which accommodates most euro profile cylinders
- Single throw deadbolt gives 16mm projection when key is turned once
- Latch bolt withdrawn by sprung lever handle from both sides
- Dead and latch bolt withdrawn simultaneously in a single operation by sprung inside lever handle
- Lock functionality is reliant on the users ability to correctly operate the lever handles
- Easily reversible handing of latch bolt and escape mechanism
- Available with radiused or square forend and strike
- Supplied with split spindle to suit the majority of lever handles
- Case size: 83mm
- Backset: 55mm
- Case: Steel, black powder coat
- Outer Forend: See finishes below
- Striking Plate: Finished to match outer forend
- Deadbolt: Stainless steel
- Latch Bolt: Stainless steel
- Follower: Zinc, 8mm
- Rebate Kit: J2C2-REB (13 & 25mm sizes), only available in SS and PB finishes
- Cylinder Type: Euro profile (not supplied)

Finish:

- SS - Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass finish



Standards:

- Tested to BS EN 12209 : 2003

3	M	4	1	0	F	2	B	C	2	0
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- EN 1634-1 assessed for use on 60 minute timber fire doors
- EC Certificate number: 0832-CPD-6046
- Assists in fulfilling duties required under the Equality Act (EA)
- Satisfies recommendations of BS8300 and Approved Document M (ADM)



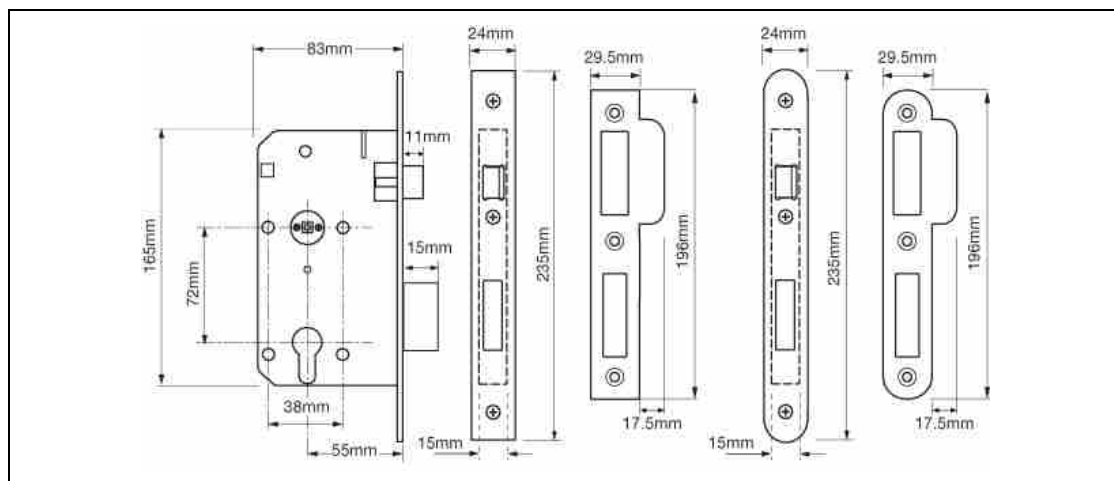
2C2 - 72mm lockcases (55mm backset)

L2C26

Euro Profile Mortice Escape Sash Lock



Technical Design:



Variants:

JL2C26R-SS55	Cylinder Mortice Escape Sashlock - Case Only
JL2C26S-PB55	Cylinder Mortice Escape Sashlock - Case Only
JL2C26S-SS55	Cylinder Mortice Escape Sashlock - Case Only

2C2 - 72mm lockcases (55mm backset)

L2C24

Euro Profile Mortice Night Latch



Application:

- For timber doors hinged on the left or right
- Also suitable for steel & composite doors - special fixings required

Specification:

- Modular case range
- European style casing with 72mm centres which accommodates most euro profile cylinders
- Key operation from outside of the door and single handle operation from inside
- Pierced to accept bolt through furniture and security rose
- Suitable for unsprung lever furniture up to a maximum weight of 0.75kg
- Easily reversible stainless steel latch bolt
- Available with radiused or square forend and strike
- Case Size: 83mm
- Backset: 55mm
- Case: Steel, black powder coat
- Outer Forend: See finishes below
- Striking Plate: Finished to match outer forend
- Deadbolt: n/a
- Latch Bolt: Stainless steel
- Follower: n/a
- Cylinder Type: Euro profile (not supplied)
- Available in SS finish as standard
- Also available in PS and PB finishes upon request

Finish:

- SS - Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass finish



Standards:

- Tested to BS EN 12209 : 2003

3	M	4	1	0	F	1	B	B	2	0
---	---	---	---	---	---	---	---	---	---	---
- EN 1634-1 assessed for use on 60 minutes timber fire doors
- EC Certificate number: 0832-CPD-6045
- Assists in fulfilling duties required under the Equality Act (EA)
- Satisfies recommendations of BS8300 and Approved Document M (ADM)



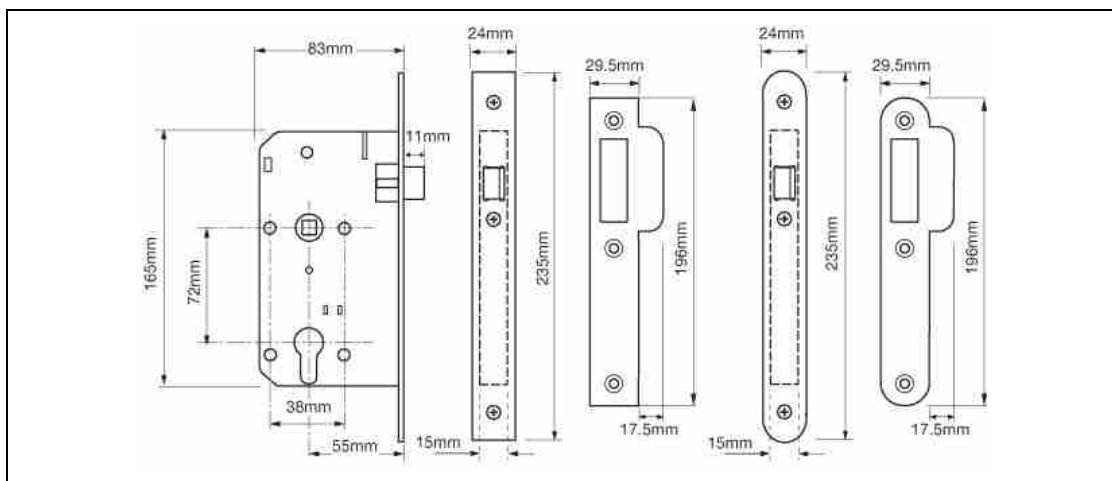
2C2 - 72mm lockcases (55mm backset)

L2C24

Euro Profile Mortice Night Latch



Technical Design:



Variants:

JL2C24R-PB55	Cylinder Mortice Nightlatch - Case Only
JL2C24R-SS55	Cylinder Mortice Nightlatch - Case Only
JL2C24S-PB55	Cylinder Mortice Nightlatch - Case Only
JL2C24S-SS55	Cylinder Mortice Nightlatch - Case Only

2C2 - 72mm lockcases (55mm backset)

L2C21

Euro Profile Mortice Sash Lock



Application:

- For timber doors hinged on the left or right
- Also suitable for steel & composite doors - special fixings required

Specification:

- Modular case range
- European style casing with 72mm centres which accommodates most euro profile cylinders
- Double throw - 20mm deadbolt throw when key is turned twice
- Easily reversible latch bolt
- Pierced to accept bolt through furniture and security rose
- Suitable for unsprung lever furniture up to a maximum weight of 0.75kg
- Easily reversible stainless steel latch bolt
- Available with radiused or square forend and strike
- Case Size: 83mm
- Backset: 55mm
- Case: Steel, black powder coat
- Outer Forend: See finishes below
- Striking Plate: Finished to match outer forend
- Deadbolt: Stainless steel
- Latch Bolt: Stainless steel
- Follower: Zinc, 8mm
- Rebate Kit: J2C2-REB (13 & 25mm sizes)
- Cylinder Type: Euro profile (not supplied)
- Available in SS finish as standard
- Available in PS and PB finishes upon request

Finish:

- SS - Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass finish



Standards:

- Tested to BS EN 12209 : 2003

3	M	4	1	0	F	2	B	A	2	0
---	---	---	---	---	---	---	---	---	---	---
- EN 1634-1 assessed for use on 60 minutes timber fire doors
- EC Certificate number: 0832-CPD-6045
- Assists in fulfilling duties required under the Equality Act (EA)
- Satisfies recommendations of BS8300 and Approved Document M (ADM)



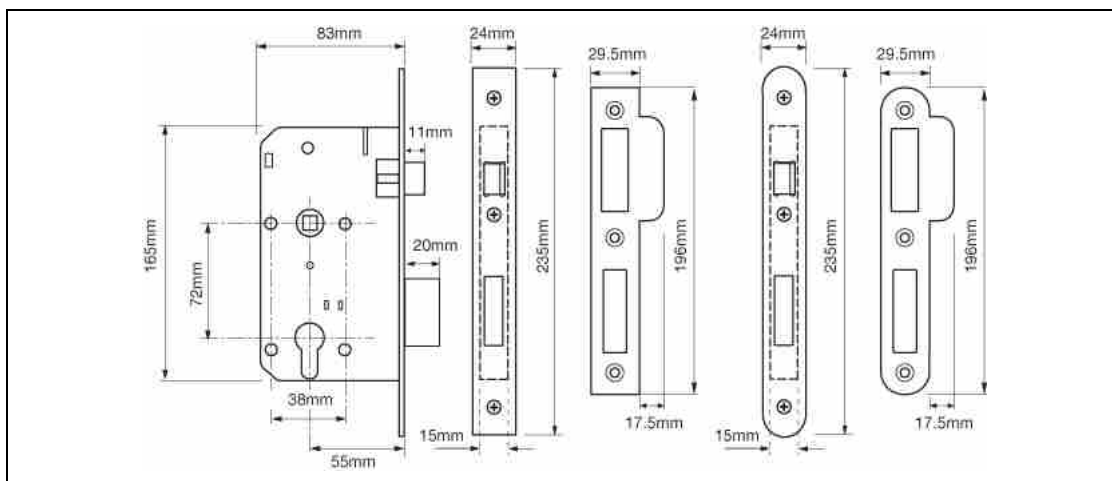
2C2 - 72mm lockcases (55mm backset)

L2C21

Euro Profile Mortice Sash Lock



Technical Design:



Variants:

JL2C21R-SS55	Cylinder Mortice Sashlock - Case Only
JL2C21S-SS55	Cylinder Mortice Sashlock - Case Only
JL2C21S-SS55	Cylinder Mortice Sashlock (case only)