Push Bar Panic Bolt With Dogging Function to EN 1125

Important Information

PLEASE READ THESE INSTRUCTIONS CAREFULLY

The Safety feature of this product are essential to its compliance with EN 179. No modifications of any kind, other than those described in these instructions, are permitted.

For use on single inward and outward opening fire escape route doors
Suitable for use timber doors
Suitable for use on fire doors
30 & 60 minutes fire integrity achieved on timber single doors
Maximum weight of door = 200kg
Maximum width of door = 1300mm (1170mm Bar) - 1100mm (730mm Bar)
Maximum height of door = 2500mm
Maximum door distortion of 5mm allowed
Maximum of 1000N pulling force against the screws achieved under the abuse test

Product Reference
XDB5760

CE	Carlisle Brass Ltd. Parkhouse Road, Carlisle, CA3 0JU									
2812-CPR-AAA010	20									
BS EN125:2008	3	7	6	B	1	4	2	2	A	A

Category of projection = Category 2
Field of Door Application = Category A

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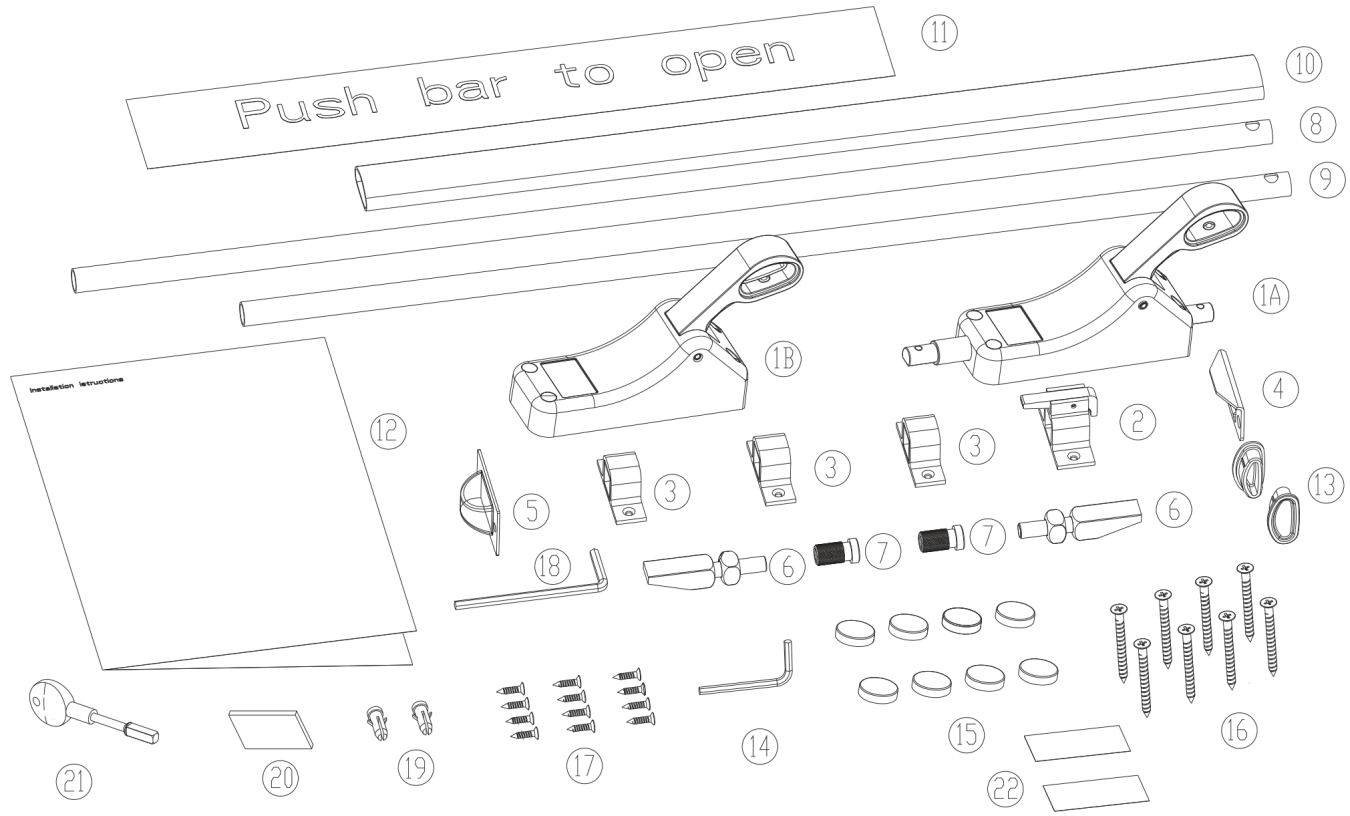

PARTS LIST

(1A) Lock Side Mechanism x 1
(1B) Hinge Side Mechanism x 1
(2) Top Tripper Guide x 1
(3) Plain Guides x 3
(4) Top Keep x 1
(5) Bottom Keep x 1
(6) Shoot Bolts x 2
(7) Knurled Plugs x 2
(8) Long Tubular Top Rod x 1
(9) Short Tubular Bottom Rod x 1
(10) Push Bar x 1
(11) 'Push Bar to Open' Sign x 1
(12) Fitting Instructions x 1
(13) Plastic End Caps x 2
(14) 3mm Allen Key x 1
(15) Plastic Screw Caps x 8
(16) Wood Screws (For Mechanisms) x 8
(17) Wood Screws (for guides and keeps) x 12
(18) 4mm Allen Key x 1
(19) Plastic Plugs x 2
(20) 3mm Packer x 1
(21) Dogging Square Key x 1
(22) Logo Stickers x 2

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Fitting Guide

For single or double door options see diagrams below.

Door Suitability
This Push Bar Panic Bolt can be fitted on most wood, steel or aluminium doors.
Door Size Limitations
Maximum clear opening height = 2500mm.
Minimum clear opening width = 400mm per door.

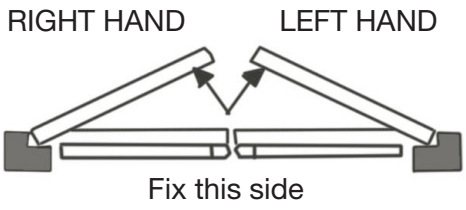

Fig 2.1

Single Door **Rebated Double Door** **Non-Rebated Double Door**

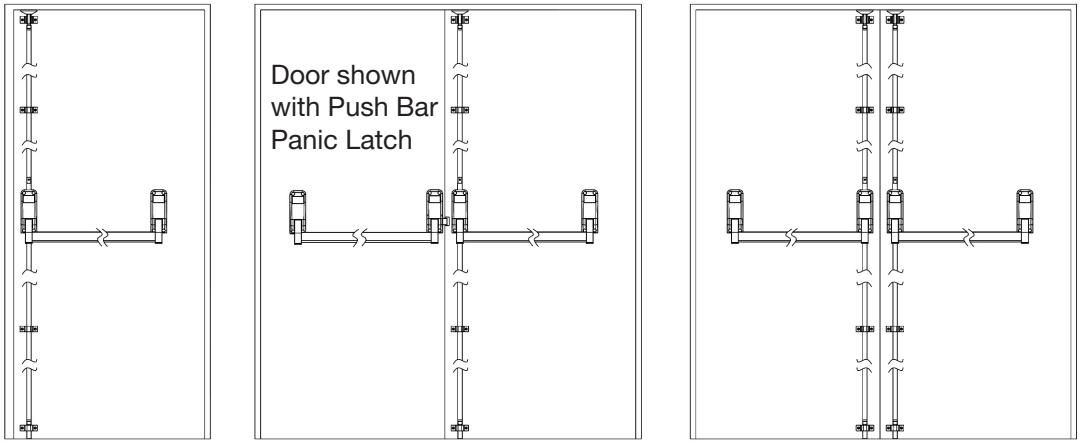

Fig 2.2

Note 1: If fitting rebated double door set, Panic Bolt must be fitted to fixed lead and Panic Latch fitted to opening leaf.

Note 2: Fit Panic Bolt 20mm back from door edge to allow for Panic Latch striker plate. See Fig 2.3

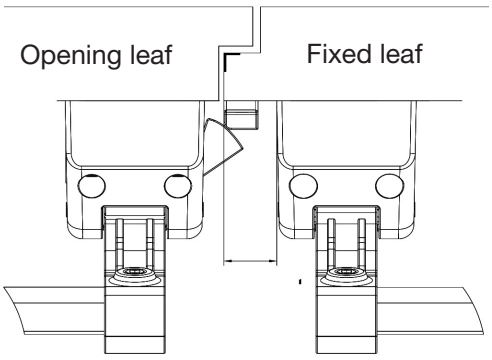

Fig 2.3

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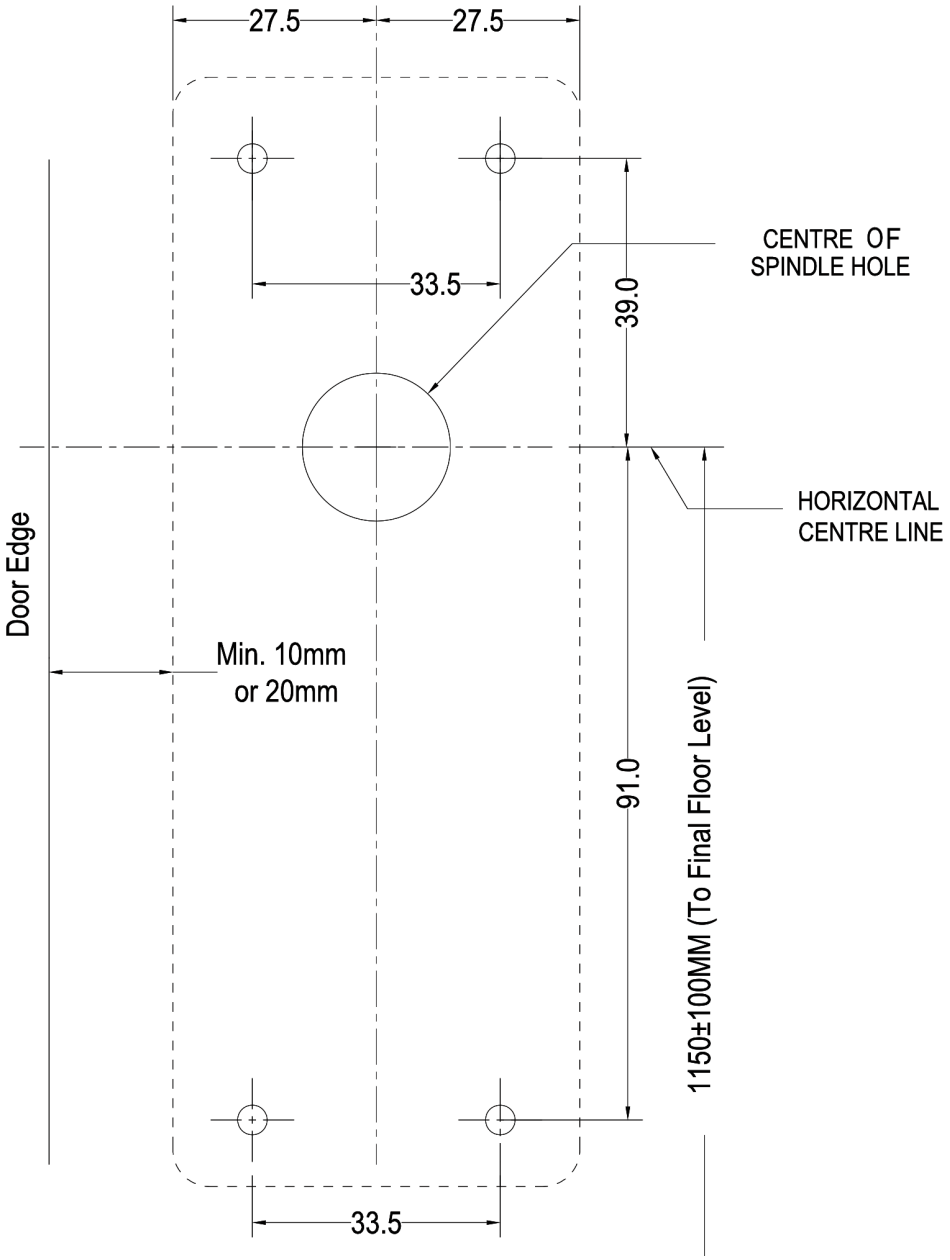
Preparation

1) Check that the door and frame are in good condition and that the door operates correctly.

2) Determine the correct type of rebate and using a centre line height of 1150mm ± 100mm, mark fixing hole positions as required **(see Fig 3.1).** The unit must be a minimum of 10mm from the door edge or 20mm when fitted on fixed leaf of rebated double door set.



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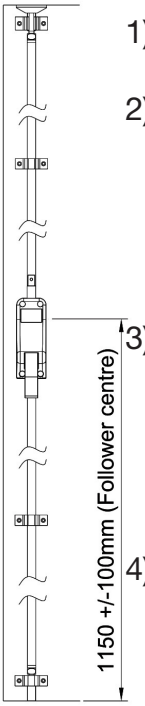
Installation



1) Drill relevant pilot holes in positions obtained in Step 2 of Section 3.

2) Secure Panic Bolt Box (1A) to the door at the required height using screws provided (16). A typical height of 1150mm is illustrated but can be altered +/- 100mm where the prime users are children. **See Fig 4.1**

3) Measure exactly, the distances ("A" & "B ") from the Panic Bolt Box (1A). **See Fig 4.2**
'A' Base of Panic Bolt Box (1A) spigot, to the threshold.
'B' Top of Panic Bolt Box (1) A spigot, to the underside of the door jamb.

4) Cut the respective tubular rods (8 & 9) to the lengths measured less 65mm for both. **See Fig 4.3**

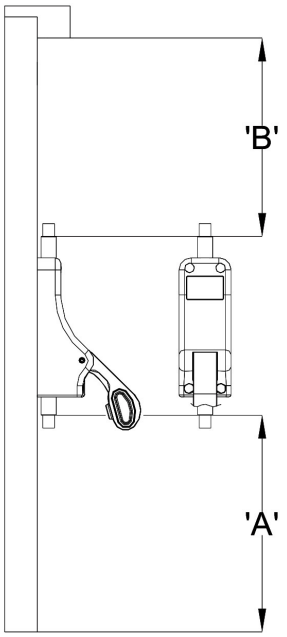


Fig 4.2

Note: Both Rods have pre-drilled holes for connection to the Panic Bolt Box mechanism, therefore ensure you cut the rods at the opposite end. Remove any burrs and insert the Knurled Plugs.
(7) taking care to use a wooden block to support the opposite end when knocking the plugs into position. See Fig 4.3.

5) Remove the Panic Bolt Box (1A) from the door and secure the rods (8 & 9) into the spigot locations in the Panic Bolt Box. Screw the socket head screws (14) to secure the rods into the spigots making sure the heads of the screws are facing the door. Screw the Shoot Bolts fully into the Knurled Plugs **See Fig 4.4**

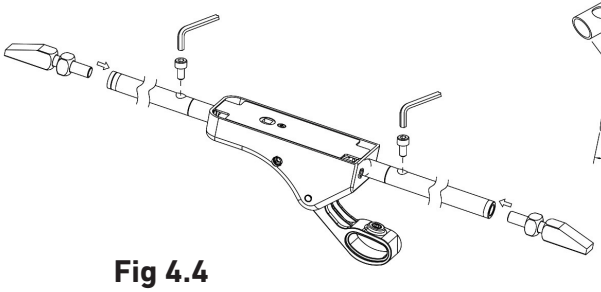


Fig 4.4

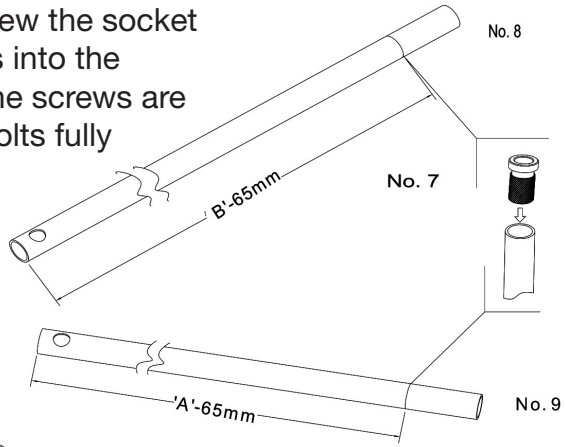


Fig 4.3

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Installation - (Continued)

6) Slip over a standard Plain guide (3) onto the Top Rod (8) and Slip the two remaining plain guides (3) over the Bottom Rod (9), then refit the assembled Panic Bolt to the door.
Fix two Plain Guides (3) to door at a central position on both rods using screws (17) supplied. **See Fig 4.5**. The other Plain Guide does not need to be fitted at this stage

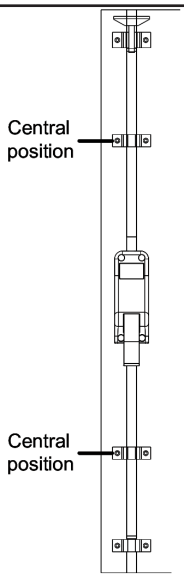


Fig 4.5

7) With the door in the closed position, fully depress the Push Bar Lever. Holding the door in a closed position, adjust the top Shoot Bolt (6) until a 3-4mm required clearance is achieved from the underside of frame to top of the Shoot Bolt. **See Fig. 4.6**
The bevel of Shoot Bolt (6) must be facing the door (adjust if necessary)

With the door open, slide the Top Tripper Guide (2) over the top Shoot Bolt (6) and close the door. Fully depress the Push Bar Lever, insert the 3mm Packer (20) to hold the top Shoot Bolt (6). **See Fig. 4.8**

This now gives the position of the top guide. Mark through and secure into position. Remove the 3mm Packer (20).

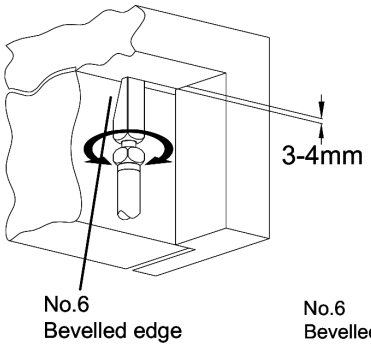


Fig 4.6

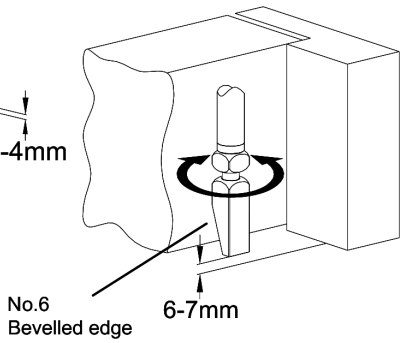
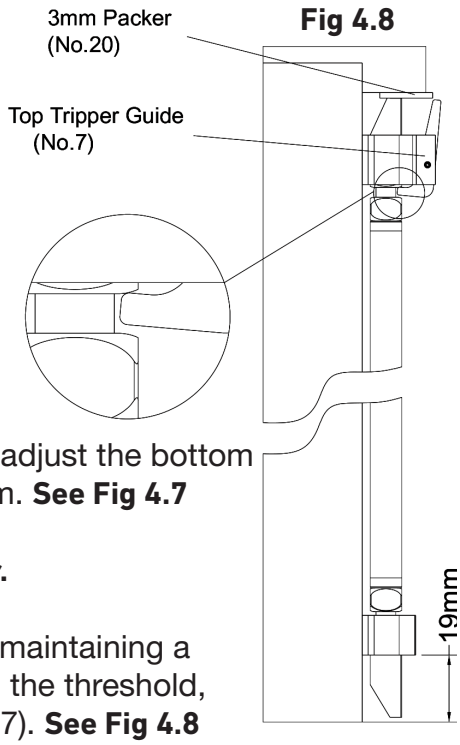


Fig 4.7

Fig 4.8



8) With the rods held into position by the Top Tripper (2), adjust the bottom Shoot Bolt (6) to obtain a required clearance of 6 -7mm. **See Fig 4.7**

Note: Ensure bevelled edge of Shoot Bolt (6) is facing the door.

9) Slide the remaining Plain Guide (3) down into position maintaining a Gap of 19mm between the underside of the guide and the threshold, mark through and secure into position using screws (17). **See Fig 4.8**

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Installation - (Continued)

10) Mortise out for the Top and Bottom Keeps (4 & 5) as shown, including the clearance depth (approximately 19mm) for the top Shoot Bolt (6) when the door is in the closed position. Also ensure the back of the top and bottom keeps are fitted 5mm away from edge of door frame. **See Figs 4.9 & 4.10**

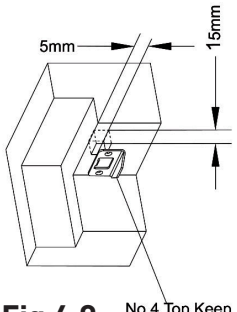


Fig 4.9

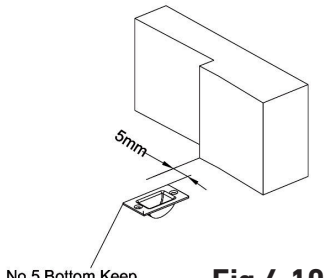
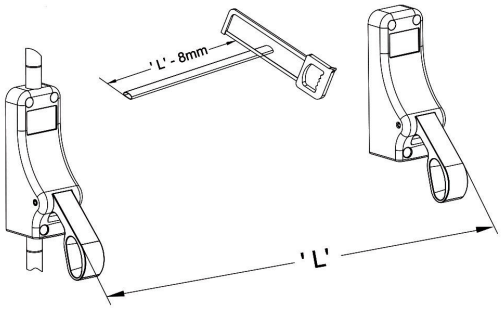


Fig 4.10

11) When the Keeps (4) and (5) are screwed into position, open and close the door to ensure the top Tripper releases against the Top Keep (4) and engages fully into the bottom Keep (5).

12) Screw Hinge Side Mechanism (1B) on the hinge side of the door at the required distance to suit door, ensuring the box is vertically and horizontally aligned with the Panic Bolt Box (1A). On a narrow door, the bar may need cutting down but remember to leave 10mm gap between Panic End Box and door frame.
Mark through and secure into position.

13) Cut bar to suit distance 'L' less 8mm. **See Fig. 4.11**



Note: If using 730mm Bar, ensure distance L is no more than 738mm
1170mm crossbar available on request

Fig 4.11

14) Insert the Push Bar (10) through the Panic Bolt lever arms and insert the plastic caps (13) at each ensuring they are fully pressed into position.
Using the socket screws (12) and Allen Key (18) provided, secure the Push Bar into position ensuring the bar is tightly secured. **See Fig 4.12**.

15) Check the operation of the Push Bar Panic Bolt is satisfactory.

16) Fit 8 screw cover caps (15) into the panic bolt boxes and apply the green self adhesive 'Push bar to Open' sign (11).
Fit Logo Stickers to the box recesses.

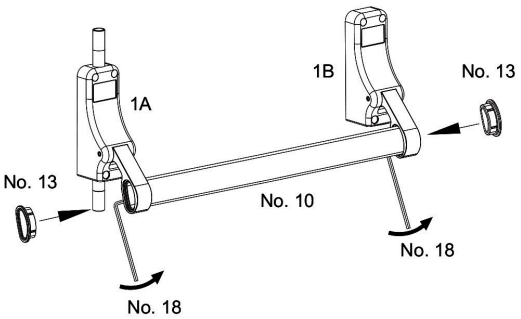


Fig 4.12

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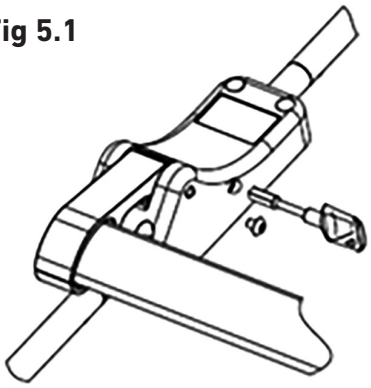
Dogging Device Operation

1. Remove allen key cover screw from right hand side of unit. (See Fig 1)

2. Fully depress crossbaw, insert key into 5mm sprung dogging pin, push fully and turn key clockwise to lock, the unit is now dogged.

3. To remove dogging function, insert key and turn anti-clockwise.

Fig 5.1



Operational Instructions and Maintenance

This Push Bar Panic Bolt is fitted to comply with EN 1125.

No instruction of operation is required, the Push Bar Panic Bolt will release the door as soon as hand or body pressure is applied.

After 20,000 operations, lubricate using GT85 PTFE solution or similar, apply engineering grease to the top and bottom shoot bolts. Repeat after each 20,000 operations.

Ensure all fixings are secure, and that the striker is clean and free from obstruction.

Check for correct operation.

PLEASE LEAVE THESE INSTRUCTIONS WITH THE END USER

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BS EN 1125 Panic exit devices operated by a horizontal bar for use on escape routes

Annex A

Installation and Fitting Instructions

A.1 The producer shall specify the appropiate fixing arrangement for the door types for which the exit device is designed.

A.2 Before fitting an exit device to a door, the door should be checked to ensure correct hanging and freedom from blinding. It is not recommended, for example, that exit devices be fitted to hollow 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 A4), 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.

A.3 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 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. See Annex B.

A.4 Care should be taken to ensure that any seals or weather-stripping fitted to the complete door assembly, do not inhibit the correct operation of the panic exit device.

A.5 On double doorsets with rebated meeting stiles and where both leaves are fitted 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.

A.6 Where panic exit devices are manufactured in 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 there is restricted width for escape, or where the doors 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 befitted to a glazed door, it is essential that the glazing is tempered or laminated glass.

A.9 Different fixing can be necessary for fitting panic 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.

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A.10 Panic exit devices are not intended for use on double action (double swing) doors unless specifically designed by the exit device 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 element should normally be installed at a height of between 900mm and 1100mm from the finished floor level, when the door is in the secured position. Where it is known that the majority of the users of the premises will be young children, consideration should be given to reducing the height of the operating element.

A.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 door sets with rebated meeting stiles and self closing devices, a door coordinator device in accordance with EN 1158 (See Bibliography) 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.

A.16 No devices for securing the door in the closed position should be fitted other than specified in this 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 impair 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 this European Standard.

A.19 A sign which reads “Push bar to open” as appropriate, or a pictogram should be provided on the inside face of the door immediately above the horizontal bar, or on the bar of is has a sufficient flat face to take the size of lettering required. The surface area of the pictogram should be not less than 8000mm^2 and its colours should be white on a green background. It should be designed such that the arrow points to the operating element, when installed.

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Annex C

Maintenance Instructions

The following information shall accompany the product:
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 the keeper(s) is (are) free from obstruction.

C) Check that the panic exit device is lubricated 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 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.

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