

GEZE

IQ Bar 300 Series

Panic Exit Hardware

GB Installation instructions

143801-01

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1 About this document

These instructions describe the installation of the GEZE IQ Panic Exit hardware.




1.1 Product description

The GEZE IQ Panic Exit hardware devices are designed to give instant escape, when required, by a touch-bar panic device for either standard or flush doors on single or double doors, and can be operated from the outside of the door by an outside access device. When the outside access device is locked the door can still be released from the inside.

1.2 Key to symbols

Symbols used in these instructions

Important information and technical notes are emphasised to illustrate the correct operation.

Symbol	Meaning
	means "Important note"
	means "Additional information"
	Symbol for a user action. Here you have to take an action. Observe the sequence if there are several action steps.

2 Safety and responsibility

The GEZE IQ Panic Exit hardware device has been designed according to the latest technical standards and acknowledged safety rules and regulations. Dangers can, nevertheless, occur in its installation and use. You must therefore observe the following instructions.

2.1 General safety instructions

- Installation, commissioning and repairs must be performed only by GEZE-authorized specialists.
- Use only genuine GEZE parts for repairs.
- GEZE accepts no liability for damage arising from unauthorized modifications to the installation.
- Primary building safety measures must be taken by the owner.
- Cables must be laid according to standards VDE 0100 and VDE 0815.
- Doors with electrical locks along escape routes should be inspected annually by a specialist. The specialist must issue a certificate verifying the periodic inspection, which the owner must submit to the building inspectorate on request. The inspection can be performed by a GEZE service technician or a GEZE-authorized service provider.
- In addition, GEZE recommends a monthly inspection of the exit hardware device for visible damage and faults by the owner. Any identified damage or faults must be rectified immediately by a GEZE service technician or a GEZE-authorized service provider.
- In order to meet the CEN European Standards the door and frame should be of good quality and suitable to support the hardware.

Improper use

Improper use includes the connection of any products that are not expressly approved by GEZE.

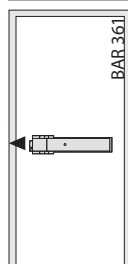
2.2 Product liability

- According to manufacturers liability for their products as defined in the German product liability act, the information contained herein and in the associated installation instructions and diagrams must be observed. Non-observation frees the manufacturer from their liability.
- Installation, function testing and maintenance must be performed only by GEZE-authorized personnel. GEZE accepts no liability for damage arising from unauthorized modifications to the installation.
- A combination with third-party devices invalidates GEZE's warranty. For repair and maintenance, use only original GEZE parts.

3 Product overview

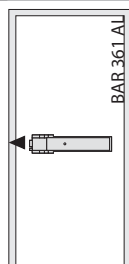
3.1 Hardware range

Standard



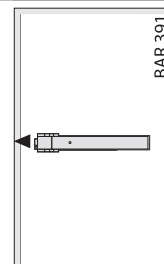
IQ Bar 361
Touch Bar
1 Point Panic Latch

Alarm

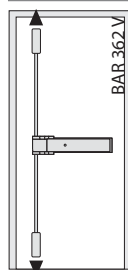


IQ Bar 361 AL
Touch Bar
1 Point Panic Latch
with alarm

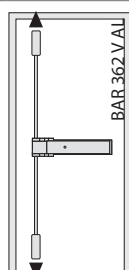
Wide (900-1200mm)



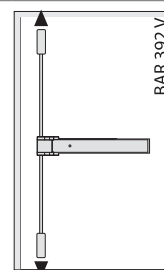
IQ Bar 391
Touch Bar
1 Point Panic Latch



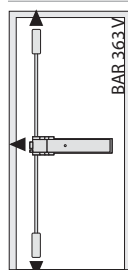
IQ Bar 362 V
Touch Bar
2 Point
Pullman Catches



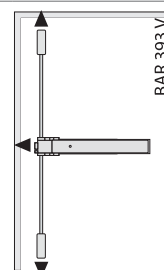
IQ Bar 362 V AL
Touch Bar
2 Point
Pullman Catches



IQ Bar 392 V
Touch Bar
2 Point
Pullman Catches

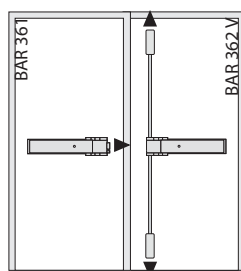


IQ Bar 363 V
Touch Bar
3 Point Pullman Catches

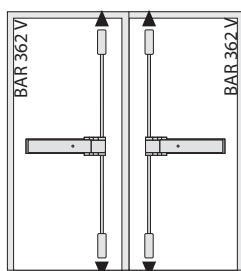


IQ Bar 393 V
Touch Bar
3 Point Pullman Catches

Double Door Sets

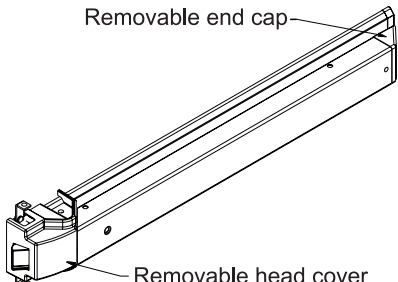
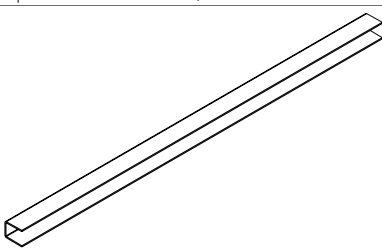
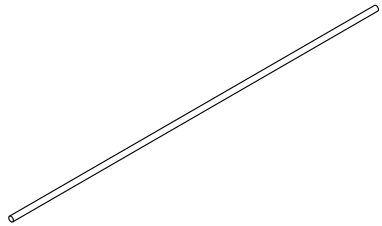
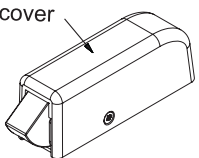
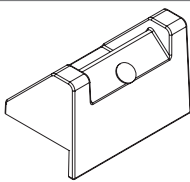
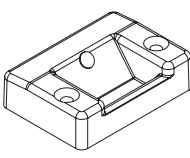
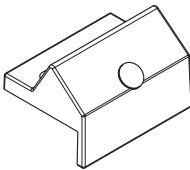
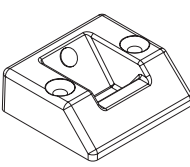




IQ Bar 363 DL
Touch Bar
3 Point Double Door Set
for Rebated Double Doors
for doors up to 900mm
IQ Bar 361 + IQ Bar 362 V



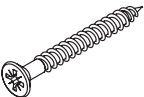



IQ Bar 364 DL
Touch Bar
4 Point Double Door Set
for Non Rebated Double Doors
for doors up to 900mm
IQ Bar 362 V + IQ Bar 362 V

3.2 Panic device contents list

	IQ Bar 361 IQ Bar 361 AL IQ Bar 391	IQ Bar 362 V IQ Bar 362 V AL IQ Bar 392 V	IQ Bar 363 V IQ Bar 393 V	
Touch bar	1	1	1	 <p>Removable end cap</p> <p>Removable head cover</p> <p>(Note: 3 point unit shown head end will vary dependant on model)</p>
Rod covers	-	2	2	
Rods	-	2	2	
Vertical Pullman catches	-	2	2	 <p>Removable cover</p>
Latch keep 1 for flush doors 406 B (supplied with various packers)	supplied separately (see note)	Not used with 2 point units	supplied separately (see note)	 <p>(Note: Supplied only with double door unit IQ Bar 363 DL otherwise supplied separately)</p>
Latch keep 2 for standard doors	1	-	1	
Pullman keep 1 406 A (Supplied with various packers)	-	supplied separately	supplied separately	
Pullman keep 2	-	2	2	

Screw D Pozi Countersunk Head Machine Screws (M4 x 6mm)	2	6	6	 (Note: Supplied assembled, securing head / pullman covers)
Screw E Pozi Countersunk Head Machine Screws (M3 x 6mm)	1	1	1	 (Note: Supplied assembled, securing end cap cover)

3.3 Screw pack(s) contents list

	IQ Bar 361 IQ Bar 361 AL IQ Bar 391	IQ Bar 362 V IQ Bar 362 V AL IQ Bar 392 V	IQ Bar 363 V IQ Bar 393 V	
Screw A Pozi Countersunk Head Wood Screw (No.8 x 1 1/2")	5	13	13	
Screw B Pozi-Round-Head Woodscrews (No: 8 x 1")	2	2	2	
Nut F Hexagon Nuts (M6)	-	6	6	
„Push bar to open“ sign	1	1	1	

4 Fixing and installation

4.1 Introduction

- These exit devices are suitable for right or left hand opening doors.
- The 900mm device is for doors measuring up to 2440mm high and 700 to 900mm wide.
- The 1200mm device is for doors measuring up to 2440mm high and 900 to 1200mm wide.
- The door must weigh no more than 200kg and be mounted in a good-quality well-made frame.
- The door/doors should be checked to ensure correct hanging and freedom from binding.
- Ensure that no weather strips or fixings on the door or door frame stop the device from working properly.
- If the door is to be fitted with a device which allows you to open it from outside, read the instructions provided with that device.
- All measurements are in millimetres.
- For installation of double door sets refer to the instructions of the relevant single door units.
 - IQ Bar 363 V DL = IQ Bar 361 + IQ Bar 362 V
 - IQ Bar 364 V DL = IQ Bar 362 V + IQ Bar 362 V

4.2 IQ Bar 361 / IQ Bar 361 AL / IQ Bar 391

These units can be fitted on a single door. IQ Bar 361 can be also fitted on the first opening (active) leaf of an IQ Bar 363 DL 3 point double door set for rebated double doors. In this case a revised fitting position for the unit is however required.

Step A: Fitting the touch-bar panic device

Make sure you have everything on the panic device contents list and the screw pack contents list. Then get together everything you need for the job. You will need the following:

- Tape measure
- A pencil
- Sticky tape (to stick the templates to the door)
- Spirit level
- Pozi head screwdrivers (No.1 & No.2 blades)
- Bradawl
- A drill with 3mm and 19mm bits
- ▶ Remove the head cover from the touch bar by removing the two screws D (see diagram 1). Also remove the end cap by taking out the one screw E (see diagram 3).

! You must use the templates to make sure you fix all the parts of the device in the correct place.

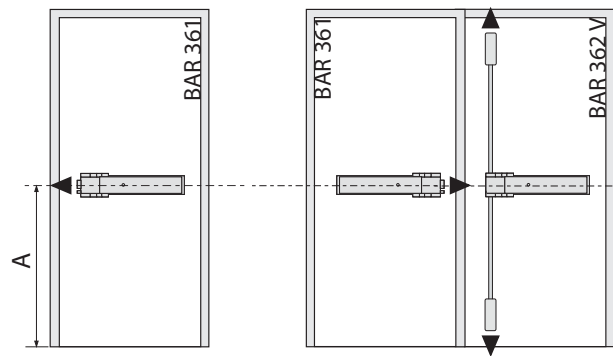
- ▶ Choose the correct template for your door type: Use Template 1 for single door arrangements. Use Template 2 for rebated double door arrangements.
- ▶ Determine the required height of the Touchbar(s) centreline between 900 & 1100mm from the floor.

For single doors:

- ▶ Follow the instructions on Template 1 to determine the templates correct orientation and alignment to suit the door stile and handing. Align as appropriate at the required height and stick it to the door.
- ▶ Using a bradawl mark the main fixing holes: 3 holes marked **A1** for standard door arrangements or 3 holes marked **A2** for flush door arrangements. Also mark the centre of the correct Ø19mm hole.
- ▶ Drill the correct 3 main fixing holes Ø3mm to suit the supplied wood screws. Drill the Ø19mm hole 16mm deep.

For Rebated Double doors (Active Leaf):

- ▶ Follow the instructions on Template 2 to determine the templates correct position and orientation to suit your door handing. Align the template with the edge of the 2nd opening leaf at the required height and stick it to the door.
- ▶ Using a bradawl mark the main fixing holes for both devices (6 holes marked **A**) Also mark the



A Unit Centre Height: between 900mm & 1100mm

Diagram 1

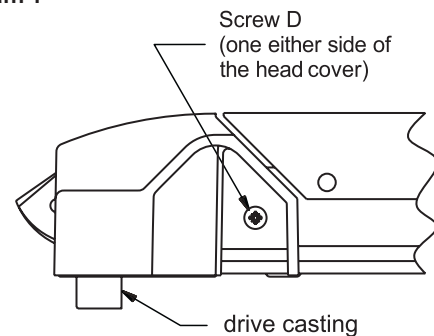


Diagram 2

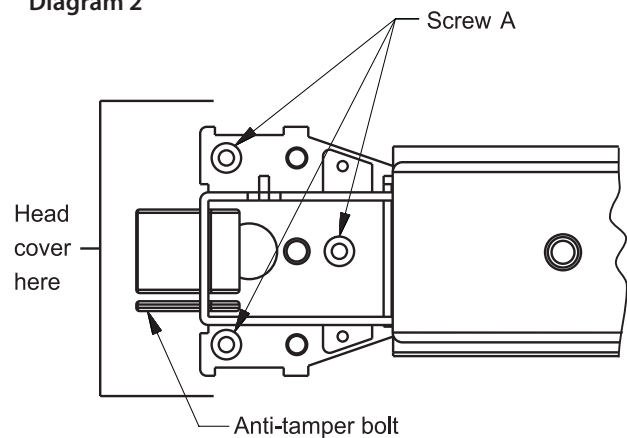
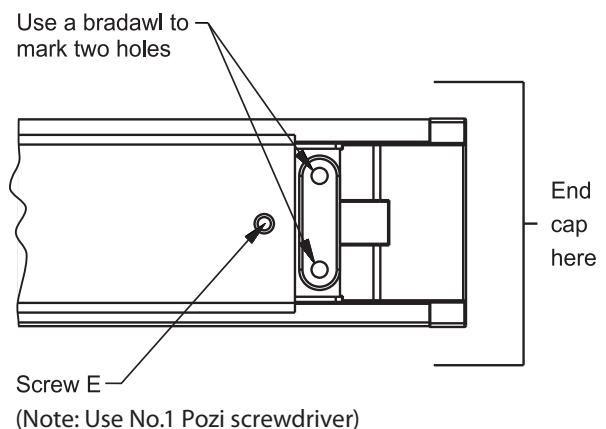


Diagram 3



centre of the two Ø19mm holes.

- ▶ Drill the 6 main fixing Ø3mm holes to suit the supplied wood screws. Drill the two Ø19mm x 16mm deep holes.



In case of using an outside access device (OAD) pause the installation of the panic device and fit the OAD before continuing with the installation. Refer to chapter "Outside Access Device (OAD)".

Fitting the touchbar(s):

- ▶ Fit the touchbar to the door. Ensure that the touchbar's protruding drive spindle (see diagram 1) is located in Ø19mm x 16mm deep clearance hole. Secure to the door with 1 off screw A (see diagram 2) into one of the holes drilled by the template.
- ▶ Level the touchbar up across the door using a spirit level. Hold in position and use a bradawl to mark the position of the two holes in the end of the unit as shown in diagram 3. Drill these holes and secure with two off Screws B.
- ▶ Secure the touchbar with the remaining two Screws A and tighten all 5 screws.
- ▶ Refit the Head cover and End Cap and secure using the screws as removed in the first step.



For rebated double door arrangements follow the appropriate instructions for the 2nd device to complete its installation however position the device with the holes as drilled with Template 2.

Diagram 4

Flush doors with latch keep 1 (supplied separately)

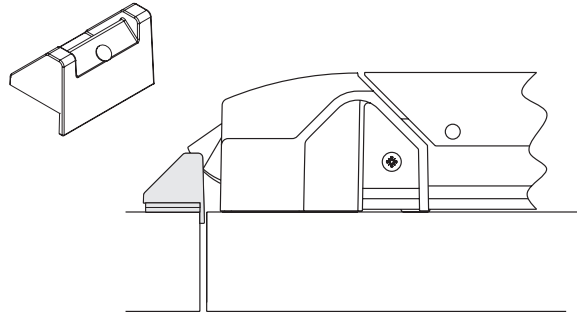
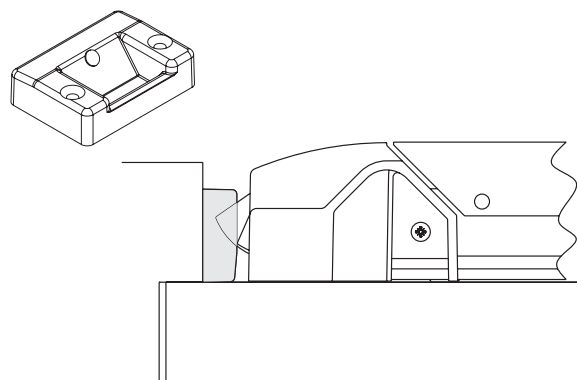


Diagram 5

Standard doors with latch keep 2 (as supplied)



Step B: Fitting the keeps

For flush doors:

- ▶ Position latch keep 1 (supplied separately) on the door frame with the 'lip' against edge of the frame. Centre the keep about the latch (which should be located in the recessed area against the plastic plug). Ensure the anti-tamper bolt (see diagram 2) is located against one of the flat areas on the latch keep.
- ▶ Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws B). Fit and adjust with the packers provided until the correct engagement is achieved.

For rebated double doors

- ▶ Position latch keep 1 (supplied in set IQ Bar 363 DL) on last opening door leaf with the 'lip' against edge of door. Centre the keep about the latch (which should be located in the recessed area against the plastic plug). Ensure the anti-tamper bolt (see diagram 2) is located against one of the flat areas on the latch keep.
- ▶ Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws B). Fit and adjust with the packers provided until the correct engagement is achieved.

For standard doors:

- ▶ Position latch keep 2 against the side face of the frame. Centre the keep around the latch (which should be located in the recess against the plastic plug). Ensure the anti-tamper bolt (see diagram 2) is located against one of the flat areas on the latch keep.
- ▶ Using a bradawl, mark the positions of the screw holes. Drill the holes and fix the latch keep in place with two Screws A.

Step C: Testing the operation & fitting the sign.

- ▶ Test the unit to ensure that when the touch bar is operated the door opens immediately and swings freely. When closed the centre latch engages fully in the keep and holds the door securely shut.
- ▶ Fit the green self adhesive 'Push Bar to Open' sign onto the door positioned immediately above the touch bar.

4.3 IQ Bar 362 V / IQ Bar 362 V AL / IQ Bar 392 V / IQ Bar 364 DL

These units can be fitted on a single door.
IQ Bar 362 V can be also fitted on the last opening (pasive) leaf of an IQ Bar 363 DL set for rebated double doors or on both leafs of an IQ Bar 364 DL set for non rebated double doors.

Step A: Fitting the touch-bar panic device

- ▶ Make sure you have everything on the panic device contents list and the screw pack contents list. Then get together everything you need for the job. You will need the following:
 - Tape measure
 - A pencil
 - Sticky tape (to stick the templates to the door)
 - Spirit level
 - Pozi head screwdrivers (No.1 & No.2 blades)
 - Two 10mm Open Ended Spanners.
 - Bradawl
 - A drill with 3mm and 19mm bits
 - A Hacksaw
- ▶ Remove the head cover from the touch bar by removing the two screws D (see diagram 1). Also remove the end cap by taking out the one screw E (see diagram 3).



You must use the templates to make sure you fix all the parts of the device in the correct place.

- ▶ Choose the correct template for your door type: Use Template 1 for single door arrangements and non-rebated double door arrangements. Use Template 2 for rebated double door arrangements.
- ▶ Determine the required height of the Touchbar(s) centreline between 900 & 1100mm from the floor.

For single doors:

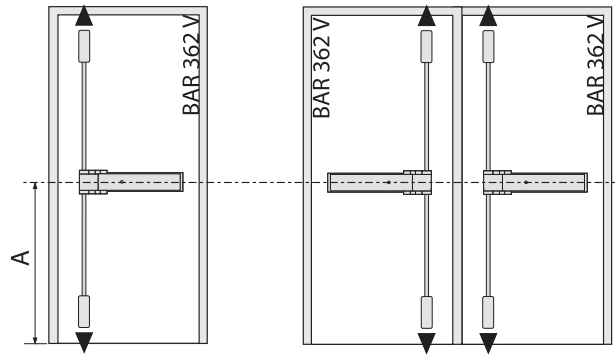
- ▶ Follow the instructions on Template 1 to determine the templates correct: orientation and alignment to suit the; door stile and handing. Align as appropriate at the required height and stick it to the door.
- ▶ Using a bradawl mark the main fixing holes: 3 holes marked **A1** for standard door arrangements or 3 holes marked **A2** for flush door arrangements. Also mark the centre of the correct Ø19mm hole.
- ▶ Drill the correct 3 main fixing holes Ø3mm to suit the supplied wood screws. Drill the Ø19mm hole 16mm deep.

For Rebated Double doors (Inactive leaf):



Note: The Active device should be fitted first.

- ▶ Follow the instructions for the Active device. The Inactive units fixing holes are drilled at the same time as those used for the Active device.



A Unit centre height: between 900mm & 1100mm

Diagram 1

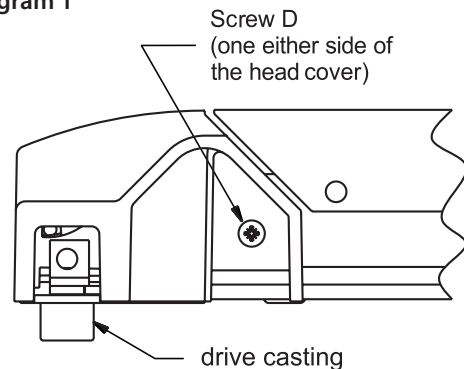


Diagram 2

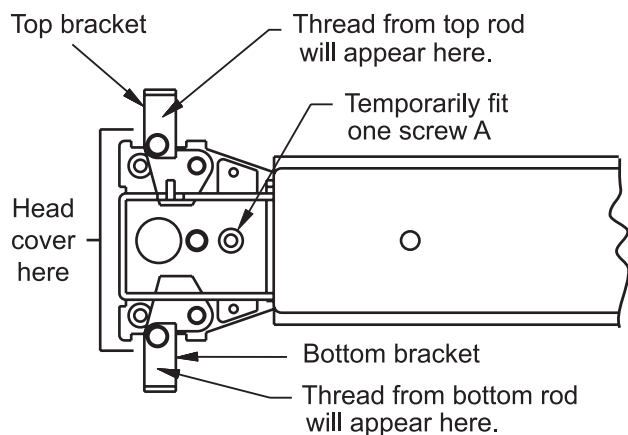
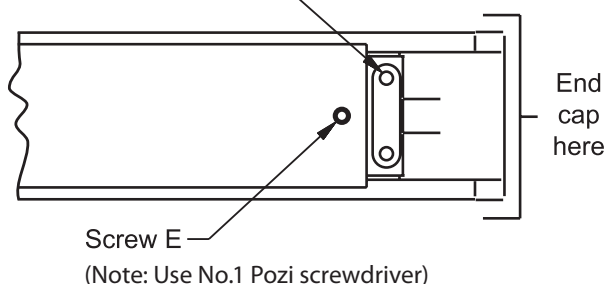


Diagram 3

Use a bradawl to mark two holes



For Non-Rebated Double doors:

- ▶ Follow the instructions on Template 1 to determine the templates correct orientation to suit the door handing. Align the template with the edge of the door leaf that the unit is to be fitted to at the required height and stick it to the door.
- ▶ Using a bradawl mark the main fixing holes: 3 holes marked **A2**. Also mark the centre of the correct Ø19mm hole.
- ▶ Drill the 3 main fixing Ø3mm holes to suit the supplied wood screws. Drill the Ø19mm hole 16mm deep.
- ▶ Repeat the process for the other leaf.



In case of using an outside access device (OAD) pause the installation of the panic device and fit the OAD before continuing with the installation. Refer to chapter "Outside Access Device (OAD)".

Fitting the touchbar(s):

- ▶ Fit the touchbar to the door. Ensure that the touchbar's protruding drive spindle (see diagram 1) is located in Ø19mm x 16mm deep clearance hole. Secure to the door with 1 off screw A (see diagram 2) into one of the holes drilled by the template.
- ▶ Level the touchbar up across the door using a spirit level. Hold in position and use a bradawl to mark the position of the two holes in the end of the unit as shown in diagram 3. Drill these holes and secure with two off Screws B.
- ▶ Secure the touchbar with the remaining two Screws A and tighten all 5 screws.



Note: Do not re-fit the head cover at this stage.

Step B: Positioning and fitting the pullman catches.

- ▶ Remove the covers from the Pullman catches by removing the two screws D.
- ▶ Follow the instructions on Template 3 to determine the templates correct position and alignment to suit your door stile & arrangement. Align as appropriate and stick it to the door.
- ▶ Using a bradawl mark the appropriate fixing holes: 2 holes marked A for each Pullman catch unit.
- ▶ Drill the holes Ø3mm to suit the supplied wood screws.
- ▶ Fit the Pullman catches. Secure to the door with screws A.

Step C: Preparing the rods & rod covers.

- ▶ Referring to Template 1 or 2 as appropriate and Template 3 locate the relevant edges marked 'X'.

Top Pullman rod & cover:

- ▶ Measure accurately between the edges marked 'X' between the Touchbar and the top Pullman catch.

Diagram 4
Touch bar with Pullman catches and rod covers

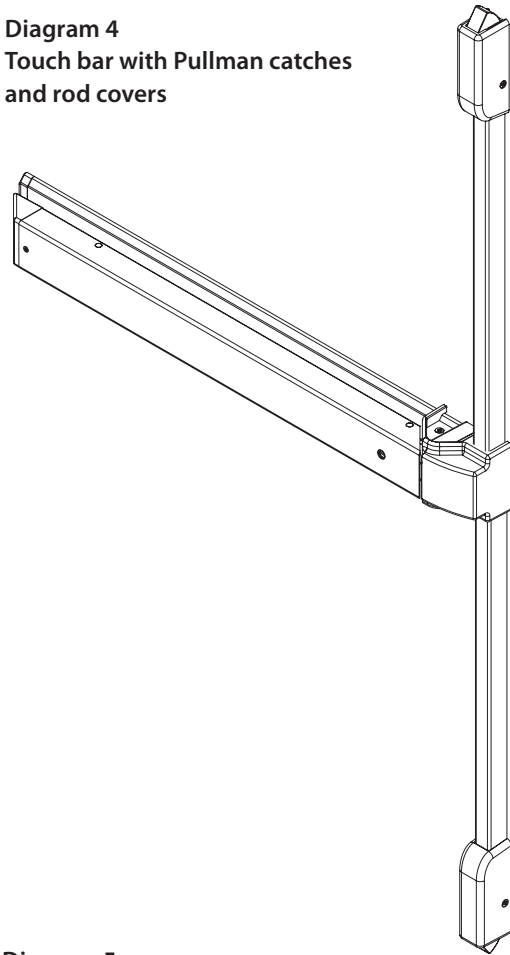


Diagram 5
Flush doors with Pullman keep 1 (406A) (supplied separately)

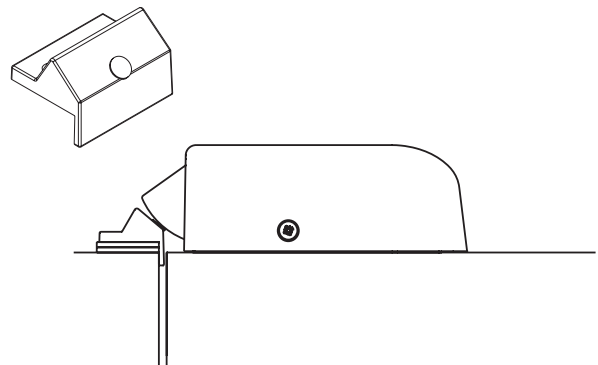
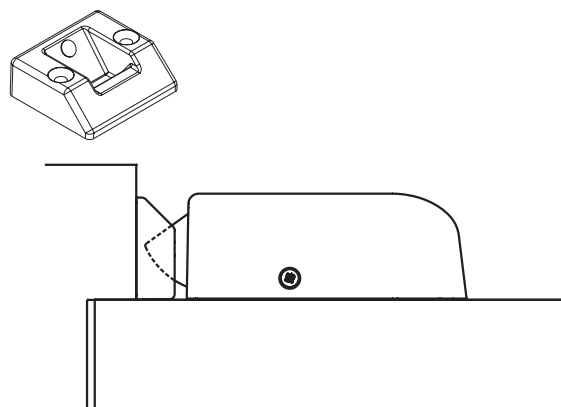


Diagram 6
Standard doors with Pullman keep 2



- ▶ Accurately cut one rod cover to this length.
- ▶ From the measured dimension add 20mm and cut the rod to this length.

Bottom Pullman rod & cover:

- ▶ Repeat the steps above but accurately measuring between the edges on the Touchbar & the bottom Pullman catch.

Step D: Fitting the rods & rod covers.

- ▶ Refit the Head cover and End Cap and secure using the screws as removed in the first step.
- ▶ Screw one off Nut F onto each end of both threaded Rods. Approximately 30mm from each end.

Fitting Top Rod:

- ▶ Screw one end of the rod into the top Pullman catch until it clears the top bracket on the Touchbar.
- ▶ Unscrew the rod from the Pullman catch guiding it through the hole in the top bracket until it is approximately 10mm through the top bracket.



At this point hold the top rod up to ensure that the Pullman catch is fully extended.

- ▶ Screw one Nut F onto the end of the rod until it contacts the top bracket.
- ▶ Screw the 2nd Nut F onto the other side of the top bracket. Use 2 10mm spanners to tighten.
- ▶ Screw the 3rd Nut F up until it contacts the Pullman catch slide and lock up with 10mm Spanner.

Fitting Bottom Rod:

- ▶ Repeat the steps above to fit the bottom rod to the bottom Pullman catch and bottom bracket. Ensure that the bottom Pullman catch is fully extended down when fitting.

Fitting top rod cover:

- ▶ Fit the prepared top rod cover into the top aperture of the head cover. Align with top Pullman catch and hold in place. Retain the rod cover by re-fitting the Pullman cover using the screws removed previously.

Fitting bottom rod cover:

- ▶ Repeat the previous steps to fit the bottom rod cover.

Step E: Fitting the keeps

For flush doors:

- ▶ Position Pullman keep 1 (supplied separately) on the frame with the 'lip' against edge of frame. Centre the keep about the Pullman latch (which should be located against the plastic plug).

- ▶ Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws B). Fit and adjust with the packers provided until the correct engagement is achieved.

For: standard doors, rebated & non-rebated double doors:

- ▶ Position Pullman keep 2 on the frame / sill / floor as appropriate with the flat face against the door. Centre the keep about the latch (which should be located in the recessed area against the plastic plug).
- ▶ Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws A).

Step F: Testing the operation & fitting the sign.

- ▶ Test the unit to ensure that when the touch bar is operated the door opens immediately and swings freely and when the door is closed the pullman catches engage fully in the keeps and hold the door securely closed.
- ▶ Fit the green self adhesive 'Push bar to open' sign onto the door positioned immediately above the touch bar.

4.4 IQ Bar 363 V / IQ Bar 393 V

Step A: Fitting the touch-bar panic device

- ▶ Make sure you have everything on the panic device contents list and the screw pack contents list. Then get together everything you need for the job. You will need the following:
 - Tape measure
 - A pencil
 - Sticky tape (to stick the templates to the door)
 - Spirit level
 - Pozi head screwdrivers (No.1 & No.2 blades)
 - Two 10mm Open Ended Spanners.
 - Bradawl
 - A drill with 3mm and 19mm bits
 - A Hacksaw
- ▶ Remove the head cover from the touch bar by removing the two screws D (see diagram 1). Also remove the end cap by taking out the one screw E (see diagram 3).



You must use the templates to make sure you fix all the parts of the device in the correct place.

- ▶ Determine the required height of the Touchbar centreline between 900 & 1100mm from the floor.
- ▶ Follow the instructions on Template 1 to determine the templates correct: orientation and alignment to suit the; door stile and handing. Align as appropriate at the required height and stick it to the door.
- ▶ Using a bradawl mark the main fixing holes: 3 holes marked A1 for standard door arrangements or 3 holes marked A2 for flush door arrangements. Also mark the centre of the correct Ø19mm hole.
- ▶ Drill the correct 3 main fixing holes Ø3mm to suit the supplied wood screws. Drill the Ø19mm hole 16mm deep.



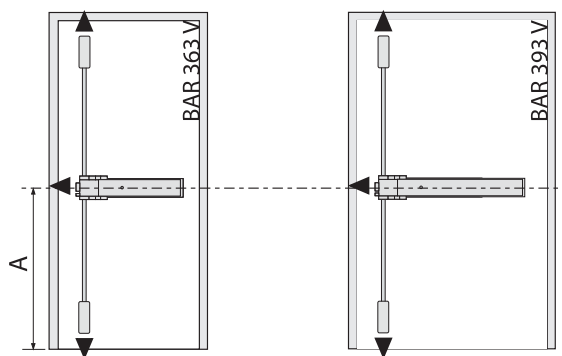
In case of using an outside access device (OAD) pause the installation of the panic device and fit the OAD before continuing with the installation. Refer to chapter "Outside Access Device (OAD)".

Fitting the Touchbar(s):

- ▶ Fit the Touchbar to the door. Ensure that the touchbar's protruding drive spindle (see diagram 1) is located in Ø19mm x 16mm deep clearance hole. Secure to the door with 1 off screw A (see diagram 2) into one of the holes drilled by the template.
- ▶ Level the Touchbar up across the door using a spirit level. Hold in position and use a bradawl to mark the position of the two holes in the end of the unit as shown in diagram 3. Drill these holes and secure with two off Screws B.
- ▶ Secure the Touchbar with the remaining two Screws A and tighten all 5 screws



Note: Do not re-fit the head cover at this stage.



A Unit centre height: between 900mm & 1100mm

Diagram 1

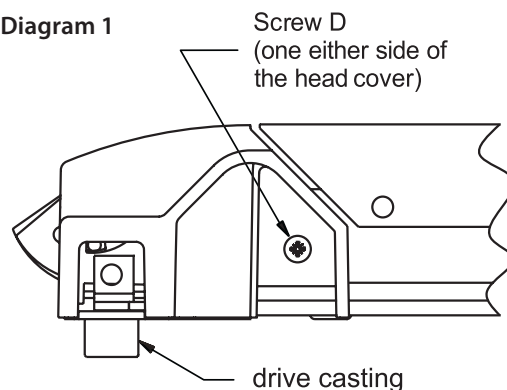


Diagram 2

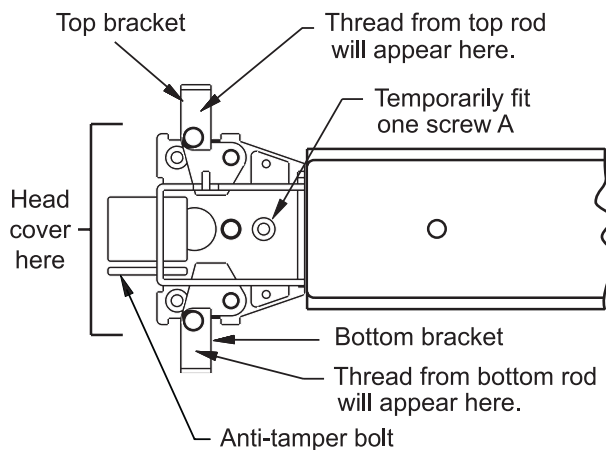
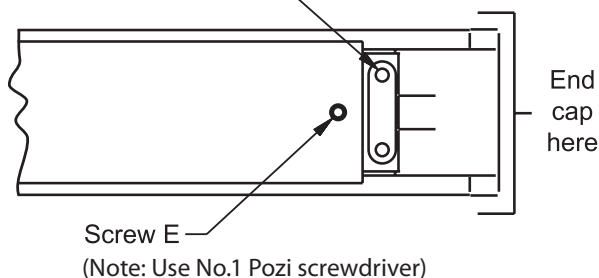


Diagram 3

Use a bradawl to mark two holes



Step B: Positioning and fitting the pullman catches.

- ▶ Remove the covers from the Pullman catches by removing the two screws D.
- ▶ Follow the instructions on Template 3 to determine the templates correct position and alignment to suit your door stile. Align as appropriate and stick it to the door.
- ▶ Using a bradawl mark the appropriate fixing holes: 2 holes marked A for each Pullman catch unit.
- ▶ Drill the holes Ø3mm to suit the supplied wood screws.
- ▶ Fit the Pullman catches. Secure to the door with screws A

Step C: Preparing the rods & rod covers.

- ▶ Referring to Template 1 or 2 as appropriate and Template 3 locate the relevant edges marked 'X'.

Top Pullman rod & cover:

- ▶ Measure accurately between the edges marked 'X' between the Touchbar and the top Pullman catch.
- ▶ Accurately cut one rod cover to this length.
- ▶ From the measured dimension add 20mm and cut the rod to this length.

Bottom Pullman rod & cover:

- ▶ Repeat the steps above but accurately measuring between the edges on the Touchbar & the bottom Pullman catch.

Step D: Fitting the rods & rod covers.

- ▶ Refit the Head cover and End Cap and secure using the screws as removed in the first step.
- ▶ Screw one off Nut F onto each end of both threaded Rods. Approximately 30mm from each end.

Fitting Top Rod:

- ▶ Screw one end of the rod into the top Pullman catch until it clears the top bracket on the Touchbar.
- ▶ Unscrew the rod from the Pullman catch guiding it through the hole in the top bracket until it is approximately 10mm through the top bracket.



At this point hold the top rod up to ensure that the Pullman catch is fully extended.

- ▶ Screw one Nut F onto the end of the rod until it contacts the top bracket.
- ▶ Screw the 2nd Nut F onto the other side of the top bracket. Use 2 10mm spanners to tighten.
- ▶ Screw the 3rd Nut F up until it contacts the Pullman catch slide and lock up with 10mm Spanner.

Fitting Bottom Rod:

- ▶ Repeat the steps above to fit the bottom rod to the bottom Pullman catch and bottom bracket.

Diagram 4
Touch bar with Pullman catches
and rod covers

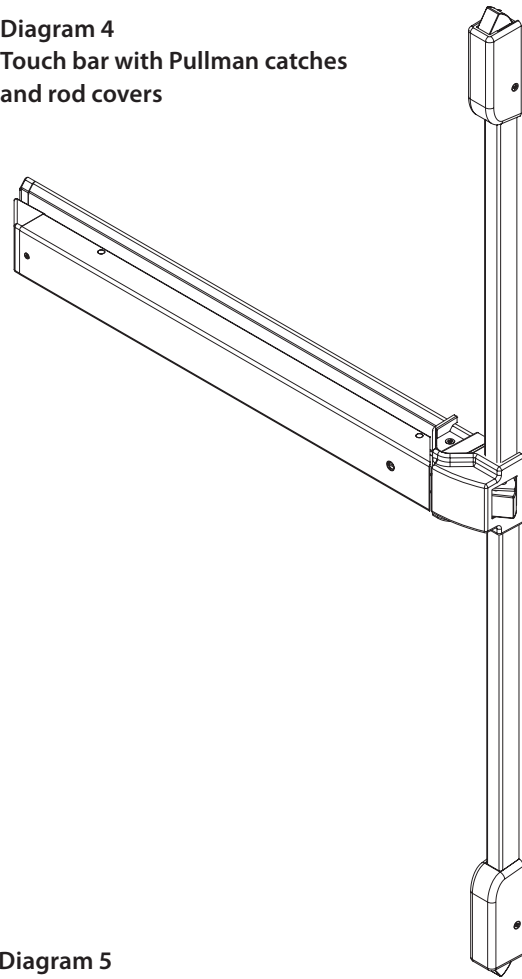


Diagram 5
Flush doors with latch keep 406A
(supplied separately)

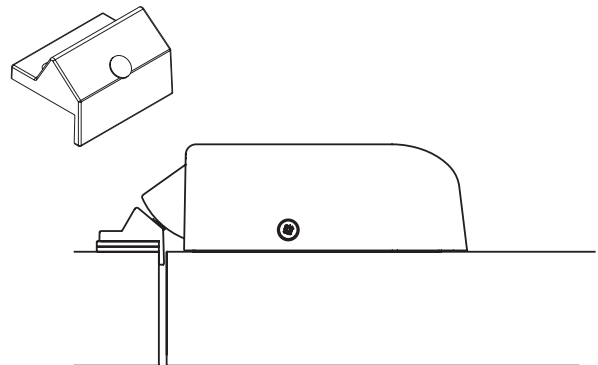
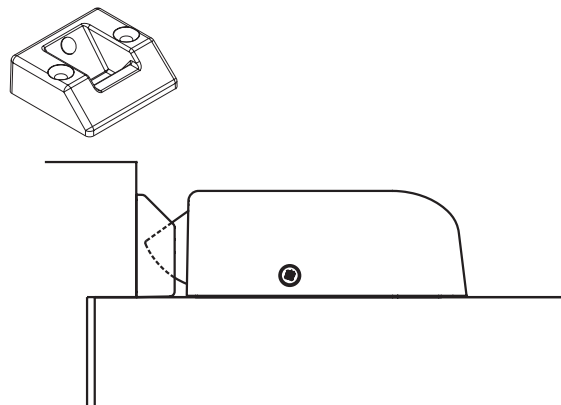


Diagram 6
Standard doors with latch keep 2



Ensure that the bottom Pullman catch is fully extended down when fitting.

Fitting top rod cover:

- Fit the prepared top rod cover into the top aperture of the head cover. Align with top Pullman catch and hold in place. Retain the rod cover by re-fitting the Pullman cover using the screws removed previously.

Fitting bottom rod cover:

- Repeat the previous steps to fit the bottom rod cover.

Step E: Fitting the keeps

For flush doors:

- Position Pullman keep 1 (supplied separately) on the frame with the 'lip' against edge of frame. Centre the keep about the Pullman latch (which should be located against the plastic plug).
- Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws B). Fit and adjust with the packers provided until the correct engagement is achieved.
- Position latch keep 1 (supplied separately) on the door frame with the 'lip' against edge of the frame. Centre the keep about the latch (which should be located in the recessed area against the plastic plug). Ensure the anti-tamper bolt (see diagram 2) is located against one of the flat areas on the latch keep.
- Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws B). Fit and adjust with the packers provided until the correct engagement is achieved.

For: standard doors:

- Position Pullman keep 2 on the frame / sill / floor as appropriate with the flat face against the door. Centre the keep about the latch (which should be located in the recessed area against the plastic plug).
- Using a bradawl mark the positions of the fixing holes. Drill the holes and fix in place using the screws provided with the keep (Screws A).
- Position latch keep 2 against the side face of the frame. Centre the keep around the latch (which should be located in the recess against the plastic plug). Ensure the anti-tamper bolt (see diagram 2) is located against one of the flat areas on the latch keep.
- Using a bradawl, mark the positions of the screw holes. Drill the holes and fix the latch keep in place with two Screws A.

Step F: Testing the operation & fitting the sign.

- Test the unit to ensure that when the touch bar is operated the door opens immediately and swings freely and when the door is closed the centre latch and the pullman catches engage fully in the keeps and hold the door securely closed.
- Fit the green self adhesive 'Push bar to open' sign onto the door positioned immediately above the touch bar.

4.5 Outside Access Devices (Overview)

There are two outside access devices (OAD) available:

- 300 L EC with Lever
- 300 K with Knob.



The cylinder in the 300 L EC is changeable.
The cylinder in the 300 K cannot be removed.

Both of these outside access devices provide a lockable entry facility for doors fitted with IQ Bar 300 Series. Outside access devices always allow immediate exit regardless of whether the device is locked or unlocked. For double door installations with rebated meeting door stiles, the outside access device must be fitted on the first opening (last closing) door leaf.

4.6 Fitting the 300 K

Step A: Positioning the device

- Working on the inside face of the door establish the position for the Outside Access Device. Single door: Centreline 37mm from the jamb. Flush door: Centreline 26mm from the jamb. Double doors: Centreline 25mm from the last opening door edge.
- Choose the correct template (template 5). Stick the template to the door as explained on that template. Align the template with the touch bar mounting holes and the clearance hole. Mark the positions of the inner top and bottom outside access device mounting holes.
- Drill three 5mm dia fixing holes (Holes B)
- Drill 19mm dia. clearance (Hole A) hole through the door.
- Countersink all three holes (Holes B) 10mm dia. for timber doors (when using the dished washers, for steel doors countersink to suit) on the inside door face.
- Counterbore all three holes (Holes B) from the OUTSIDE of the door 8mm dia. x 22mm deep. (see diagram 1)
- Prepare three M4 c'sk. head screws. Measure the door thickness, subtract 8mm and cut to length (see diagram 1).
- Prepare the drive spindle. Measure the door

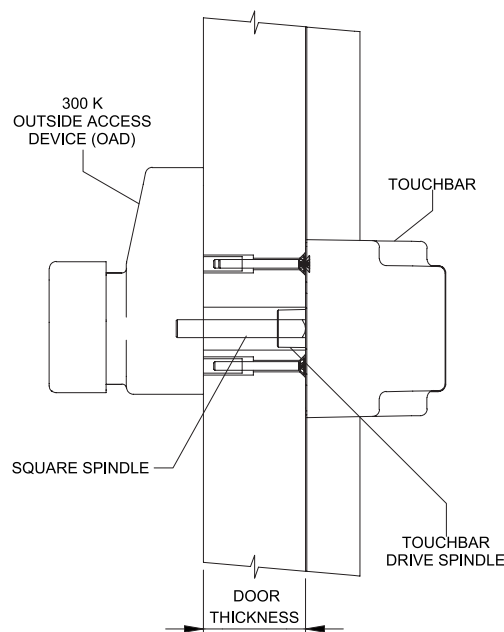
thickness add 12mm to this and cut the drive spindle to this length.

- ▶ Fit the drive spindle into the square hole (see diagram 1).
- ▶ Using the dished washers (for timber doors) and two screws. Secure the outside access device to the door using the top inner and bottom centre holes only.
- ▶ Ensure that drive spindle is positioned centrally in the clearance hole and that the body of the outside access device is square to the edge of the door.
- ▶ Install the touch bar panic device. Locate the drive spindle. Use the remaining screw in the top outer fixing hole to secure both the touch bar and the outside access device. Complete the installation of the touch bar as described in the appropriate fitting procedure sheet.

Step B: Testing the device

Once the panic device has been installed test for free and correct operation of both the outside access device & the panic device/s.

Diagram 1



300 K QUICK REFERENCE (PREPARING SCREWS & SPINDLE)
 SPINDLE LENGTH = DOOR THICKNESS + 14mm
 SCREW LENGTH (3 OFF) = DOOR THICKNESS - 8mm

4.7 Fitting the 300 L EC

Step A: Setting the outside access device's lever handing

The outside access device is supplied with the lever in a neutral position. To set the lever to suit left hand or right hand opening doors follow the procedure below:

- ▶ First establish the lever hand required by checking the position on the door. Remove the label from the outside access device and start to rotate the lever towards the required position. Feel the drive assembly engage with a click, continue to move the lever against spring pressure until it reaches a horizontal position (3 o'clock or 9 o'clock position as required).
- ▶ Insert the lever set pin provided through the hole in the back plate situated below the square drive location. Engage the thread and tighten fully.

Step B: Re-setting the outside access device's lever if set the wrong way in error (see diagram 2)

- ▶ Operate the cylinder lock key in an anti-clockwise direction to lock the unit (disengage the mechanism). Remove the key.
- ▶ Remove the backplate assembly (4 screws). Taking care not to displace the drive spindle from the lever boss.
- ▶ Remove the lever set pin (if it has been fitted).
- ▶ Look inside the body. Locate the lever drive pin. Depress the spring loaded lever drive pin to disengage the lever from the sprung disc.
- ▶ Gently rotate the lever towards the correct po-

sition until the drive lever drive pin re-engages. Taking care not to rotate the sprung disc.

- ▶ Continue to move the lever against the spring pressure until it's just past the horizontal position and the lever drive pin engages in the new position. Fit the lever set pin to retain the lever in its new position.
- ▶ Refit the backplate assembly (4 screws). Line up the setting marks on the drive spindle with those on the backplate assembly. Test the operation of the unit.

Step C: Changing the cylinder lock

To change the cylinder follow the steps below.

- ▶ Remove the backplate assembly (4 screws). Taking care not to displace the drive spindle from the lever boss.
- ▶ Remove the existing cylinder by removing the screw. Take care not to lose the tubular spacer.
- ▶ Place the new cylinder lock flat on the back plate locate the tubular spacer between the cylinder and fixing tag and secure with the screw.
- ▶ Refit the backplate assembly and test operation.

Step D: Positioning the device

- ▶ Working on the inside face of the door establish the position for the Outside Access Device. Single door: Centreline 37mm from the jamb. Flush door: Centreline 26mm from the jamb. Double doors: Centreline 25mm from the last opening door edge.
- ▶ Choose the correct template (template 4). Stick

the template to the door as explained on that template. Align the template with the touchbar mounting holes and the clearance hole. Mark the positions of the inner top and bottom outside access device mounting holes.



For added security a 5th mounting screw (hole F on the template) is provided for an additional outside access device fixing. However this extra screw is only hidden from view when used in conjunction with two & three point panic units, but is visible on the inside face of the door on single point (latch) versions.

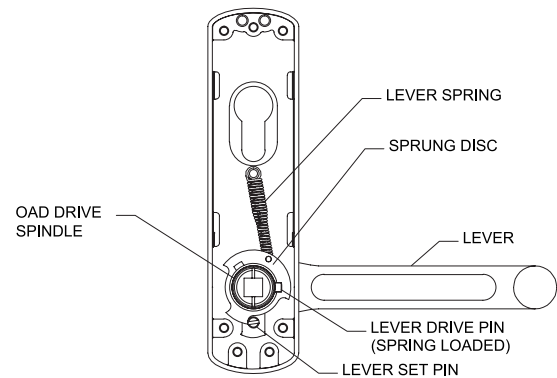
- ▶ Drill four / five (see above) 5mm dia fixing holes (Holes B, C, D, E & F).
- ▶ Drill the 19mm dia. clearance hole through the door (Hole A).
- ▶ Countersink the two inner holes (and the 5th hole if used) 10mm dia. for timber doors (when using the dished washers, for steel doors countersink to suit) on the inside door face (Holes C, D & F).
- ▶ Counterbore both top holes (see diagram A) from the OUTSIDE 8mm dia. x 22mm deep (Holes B & C).
- ▶ Prepare two (short) M4 c'sk. head screws for the top mounting holes (see diagram 3). Measure the door thickness, subtract 5mm and cut to length.
- ▶ Prepare two/three (long) M4 c'sk. head screws for the bottom mounting holes (see diagram 3). Take the door thickness dimension, add 12mm and cut to length.
- ▶ Prepare the drive spindle. Measure the door thickness add 12mm to this and cut the drive spindle to this length.
- ▶ Fit the drive spindle in to the square hole (see diagram 3). Ensure that the setting marks are in alignment.
- ▶ Using dished washers (for timber doors) and one short and one long c'sk. head screw.
- ▶ Secure the outside access device using the inner holes only.
- ▶ Ensure that the drive spindle is positioned centrally in the clearance hole and that the body of the outside access device is square to the edge of the door.
- ▶ Install the touch bar panic device. Locate the drive spindle. Use the two remaining screws, short (top) and long (bottom) in the outer fixing holes to secure both the touch bar and the outside access device. Complete the installation of the touchbar as described in the appropriate fitting procedure sheet.

Step H: Testing the device

Once the panic device has been installed test for free and correct operation of both the outside access device & the panic device/s.

Diagram 2

Internal view from rear. Backplate assembly shown removed



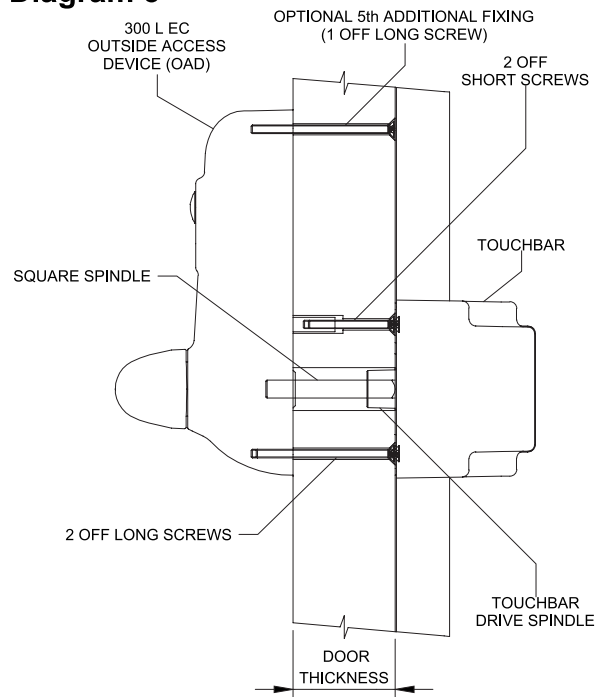
300 L EC: QUICK REFERENCE (PREPARING SCREWS & SPINDLE)

SPINDLE LENGTH = DOOR THICKNESS + 12mm

SHORT SCREW LENGTH (2 OFF) = DOOR THICKNESS - 5mm

LONG SCREW LENGTH (2 OR 3 OFF) = DOOR THICKNESS + 18mm

Diagram 3



5 Notes on installation

As part of the requirements of **EN1125: 2008** we must provide you with the following additional information.
(Note: some of the information below may be duplicated in this Installation instructions):

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.

- The fixing arrangements for the door types for which the exit device is designed, are specified in this Installation instructions.
- Before fitting an exit device to a door, the door should be checked to ensure correct hanging and freedom from binding.
- A maximum of 5mm door distortion is allowed.
- We do not recommend that any of our exit devices be fitted to hollow core doors.
- It is recommended to verify that the door construction allows the use of the device, i.e. verify that:
 - Offset hinges and engaging leaves allow both leaves to be opened simultaneously.
 - The gap between door leaves does not differ from that which is specified in the installation instructions.
 - The operating elements do not interfere.

NOTE: Panic exit devices manufactured in accordance with EN1125 will provide a high degree of safety and reasonable security provided that they are fitted to doors and door frames that are in good condition.

- 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 fire doors) 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 it is 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 operations of the Panic exit device.
- 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 exit device is activated and also that both leaves will open freely when both exit devices are operated simultaneously.
- These Panic exit devices are manufactured in more than one size; it is important that the correct size is selected:
 - All versions suitable for use on double / single doors up to 2440mm high, doors mass up to 200kg.
 - 900mm device (measures 653mm O/A) suitable for use on doors: 700 to 900mm wide.
 - 1200mm device (measures 833mm O/A) suitable for use on doors: 900 to 1200mm wide.
- 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°.
- Where an exit device is to be fitted to a glazed door, it is essential that the glazing is tempered or laminated glass.
- Different fixings are available (on request) for fitting these Panic exit devices to metal doors, etc. Timber fixings are supplied as standard.
- None of our Panic exit devices are intended for use on double action (double swing) doors.
- The fixing instructions should be carefully followed during installation. The instructions should be passed on by the installer to the user.
- The Touchbar should normally be installed at a height of between 900 mm and 1100 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 / operating element accordingly.
- The correct size of Touchbar should be installed to provide the maximum effective length.
Note: The size of the Touchbars operating element should be a minimum of 60% of the width of the door face.
- The latches and keepers should be fitted to provide secure engagement. Care should be taken to ensure that no projection of the latches, when in the withdrawn position, can prevent the door swinging freely.
- Where 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 fire/smoke resisting door assemblies.
- No additional devices for securing the door in the closed position should be fitted. 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.
- Any keepers or protection plates provided should be fitted in order to ensure compliance with EN1125.
- The provided sign which reads; "Push bar to open" should be affixed on the inside face of the door immediately above the Touchbar.

6 Maintenance instructions

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.

The following is the routine maintenance procedure as recommended by EN1125

- ▶ Inspect and operate the exit device to ensure that all components are in a satisfactory working condition. If possible using a force gauge, measure and record the operating forces to release the exit device.
- ▶ Ensure the keeper(s) is (are) free from obstruction.
- ▶ Check that the exit device is lubricated in accordance with the producer's instructions.
- ▶ Check that no additional locking devices have been added to the door since its original installation.
- ▶ Check periodically that all components of the system are still correct in accordance with the list of approved components originally supplied with the system.
- ▶ Check periodically that the operating element is correctly tightened and, If possible 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.

7 Drilling templates

Overview

- Drilling Template 1 - for fitting Touchbar unit onto single doors - 19
- Drilling Template 2 - for fitting Touchbar units onto rebated double doors - 20
- Drilling Template 3 - for fitting Pullman catches (all door types) - 21
- Drilling Template 4 - for fitting the Lever 300 L EC Outside Access Device (OAD) - 22
- Drilling Template 5 - for fitting the Lever 300 K EC Outside Access Device (OAD) - 23

TEMPLATE 1

FOR FITTING TOUCHBAR UNIT ON SINGLE DOORS
AND NON-REBATED DOUBLE DOORS.

THIS SIDE THIS WAY UP FOR:

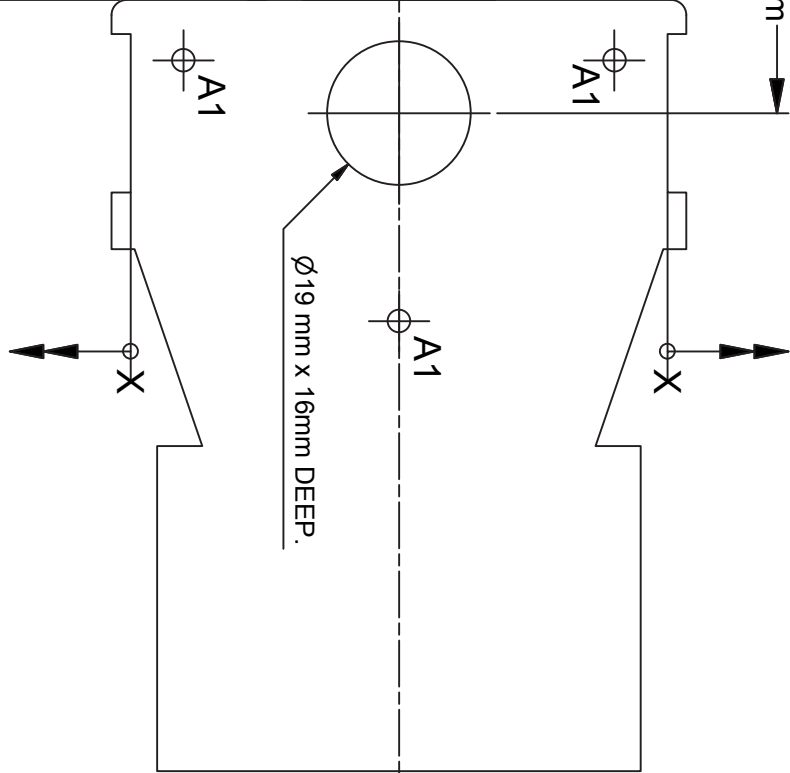
LEFT HAND STANDARD DOOR
(HINGED ON **RIGHT**, OPENING OUTWARDS)

FOR PULLMAN UNITS ONLY
MEASURE FROM THE EDGE MARKED 'X' ON THE TOUCHBAR TO THE
CORRESPONDING EDGE ON THE PULLMAN CATCH UNIT (SEE TEMPLATE 3)
REFER TO THE INSTALLATION INSTRUCTIONS TO USE THESE MEASUREMENTS
TO DETERMINE THE ROD & COVER LENGTHS.

EDGE OF STANDARD DOOR FRAME

37 mm

22 mm



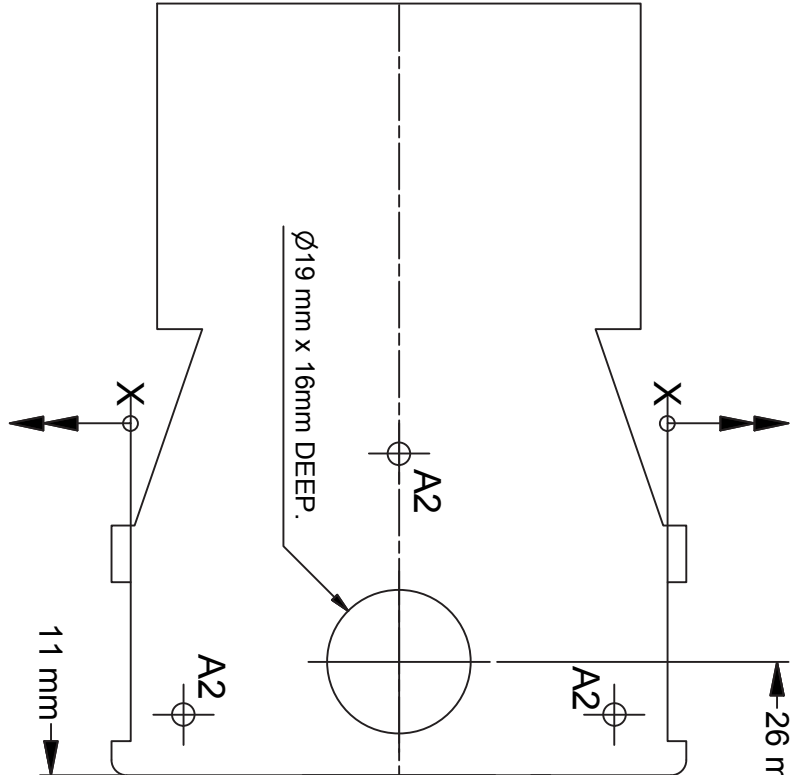
Ø19 mm x 16mm DEEP.

THIS SIDE THIS WAY UP FOR:
RIGHT HAND STANDARD DOOR
(HINGED ON **LEFT**, OPENING OUTWARDS)

FROM FLOOR
mm0011 of 006

FROM FLOOR
900 to 1100mm

THIS SIDE THIS WAY UP FOR:
RIGHT HAND FLUSH DOOR /
NON-REBATED DOUBLE DOOR LEAF
(HINGED ON **LEFT**, OPENING OUTWARDS)



Ø19 mm x 16mm DEEP.

11 mm

EDGE OF FLUSH DOOR FRAME /
DOOR LEAF THAT UNIT IS FITTED TO

TEMPLATE 1

FOR FITTING TOUCHBAR UNIT ON SINGLE DOORS
AND NON-REBATED DOUBLE DOORS.

THIS SIDE THIS WAY UP FOR:

LEFT HAND FLUSH DOOR /
NON-REBATED DOUBLE DOOR LEAF
(HINGED ON **RIGHT**, OPENING OUTWARDS)

FOR PULLMAN UNITS ONLY
MEASURE FROM THE EDGE MARKED 'X' ON THE TOUCHBAR TO THE
CORRESPONDING EDGE ON THE PULLMAN CATCH UNIT (SEE TEMPLATE 3)
REFER TO THE INSTALLATION INSTRUCTIONS TO USE THESE MEASUREMENTS
TO DETERMINE THE ROD & COVER LENGTHS.

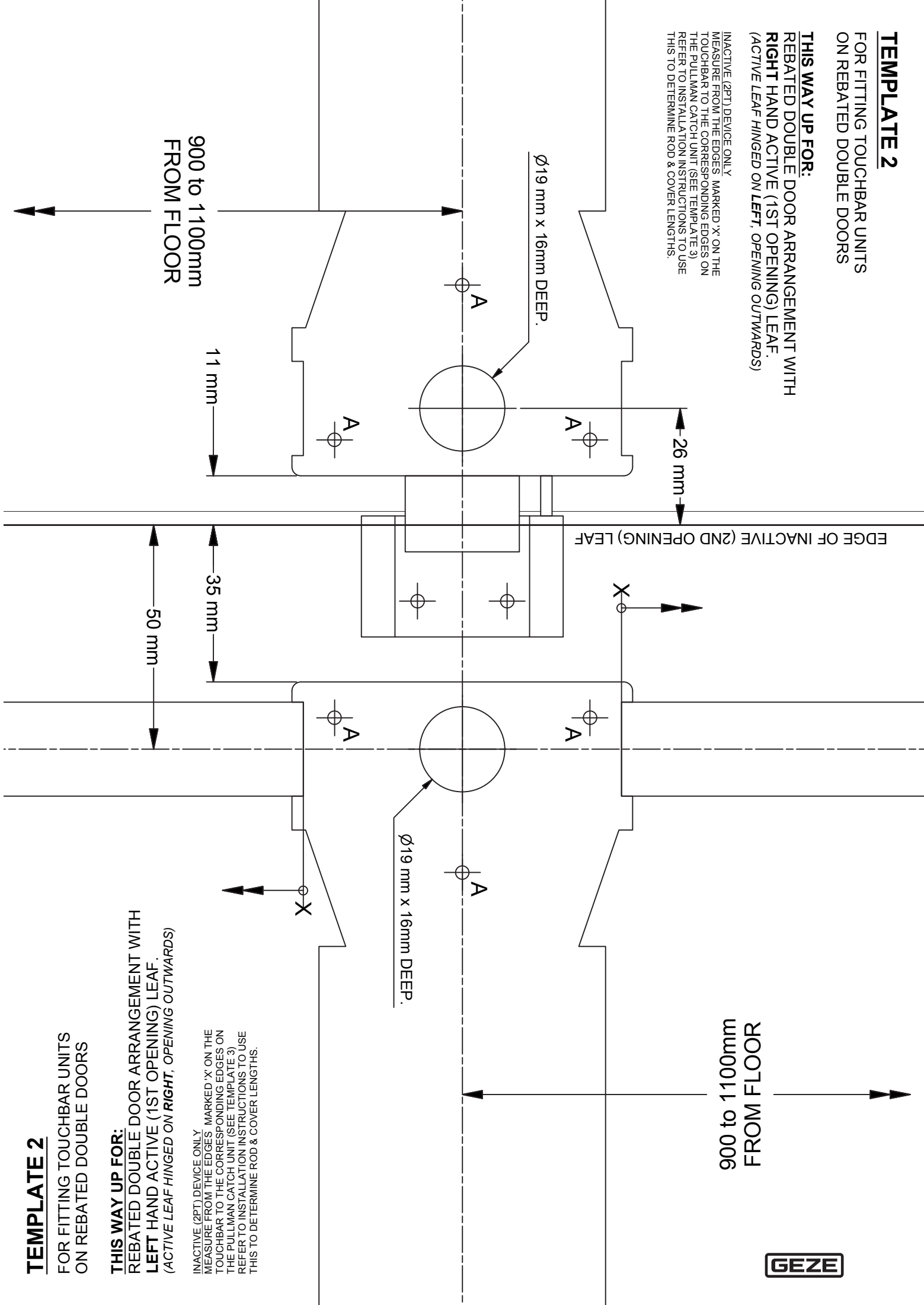
TEMPLATE 2

FOR FITTING TOUCHBAR UNITS
ON REBATED DOUBLE DOORS

THIS WAY UP FOR:

REBATED DOUBLE DOOR ARRANGEMENT WITH
RIGHT HAND ACTIVE (1ST OPENING) LEAF.
(ACTIVE LEAF HINGED ON **LEFT**, OPENING OUTWARDS)

INACTIVE (2PT) DEVICE ONLY
MEASURE FROM THE EDGES, MARKED 'X' ON THE
TOUCHBAR TO THE CORRESPONDING EDGES ON
THE PULLMAN CATCH UNIT (SEE TEMPLATE 3)
REFER TO INSTALLATION INSTRUCTIONS TO USE
THIS TO DETERMINE ROD & COVER LENGTHS.



TEMPLATE 2

FOR FITTING TOUCHBAR UNITS
ON REBATED DOUBLE DOORS

THIS WAY UP FOR:

REBATED DOUBLE DOOR ARRANGEMENT WITH
LEFT HAND ACTIVE (1ST OPENING) LEAF.
(ACTIVE LEAF HINGED ON **RIGHT**, OPENING OUTWARDS)

INACTIVE (2PT) DEVICE ONLY
MEASURE FROM THE EDGES, MARKED 'X' ON THE
TOUCHBAR TO THE CORRESPONDING EDGES ON
THE PULLMAN CATCH UNIT (SEE TEMPLATE 3)
REFER TO INSTALLATION INSTRUCTIONS TO USE
THIS TO DETERMINE ROD & COVER LENGTHS.

TEMPLATE 3

Technical drawing of a standard single door frame, showing dimensions and assembly points. The drawing is oriented vertically, with the top edge labeled "EDGE OF STANDARD FRAME / SILL / FLOOR". The bottom edge is also labeled "EDGE OF STANDARD FRAME / SILL / FLOOR". The left and right vertical edges are labeled "EDGE OF STANDARD SINGLE DOOR FRAME".

Key dimensions and features include:

- Top horizontal dimension: 37 mm (from centerline to left edge) and 37 mm (from centerline to right edge).
- Top vertical dimension: 23 mm (from top edge to the top of the central frame section).
- Bottom vertical dimension: 23 mm (from the bottom of the central frame section to the bottom edge).
- Horizontal dimension at the bottom: 50 mm (from the left edge to the centerline).
- Assembly points: Two points labeled "A" are marked on the central vertical axis, each with a circle and a cross. Two points labeled "X" are marked on the left and right vertical edges, each with a circle and a cross.
- Arrows: A vertical arrow points upwards from the top edge to the top of the central frame section. A vertical arrow points downwards from the bottom of the central frame section to the bottom edge. A horizontal arrow points to the right from the left edge to the centerline. A horizontal arrow points to the left from the right edge to the centerline.

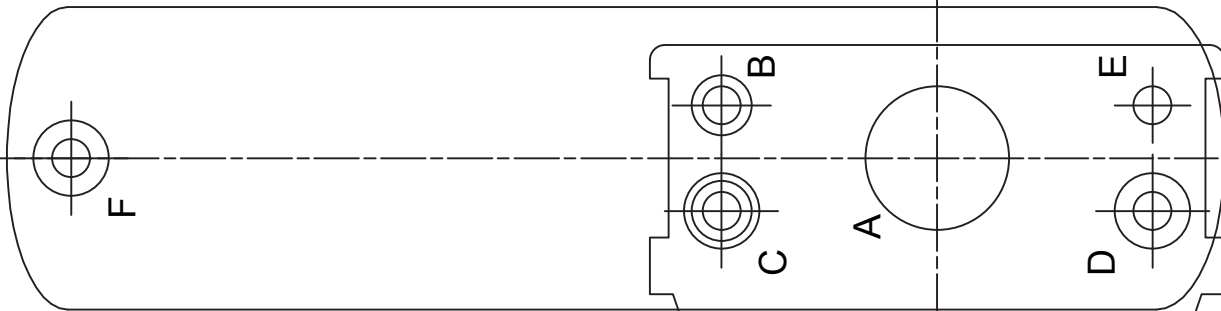
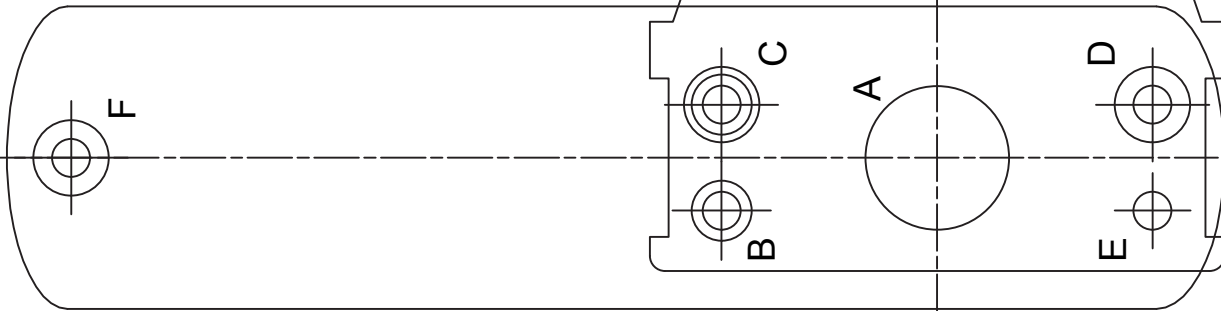
TEMPLATE 4

FOR FITTING 300 L EC LEVER OUTSIDE ACCESS DEVICE

USE THIS WAY UP ON
INSIDE FACE OF DOOR

USE FOR LEFT HAND DOOR

USE FOR RIGHT HAND DOOR



IMPORTANT:

PLEASE REFER TO THE INSTRUCTIONS FOR THE USE OF **HOLE F**

HOLE A:

DRILL ONE HOLE $\varnothing 19\text{mm}$ THROUGH THE DOOR.

HOLES B, C, D, E & F (IF USED):

DRILL $\varnothing 5\text{mm}$ THROUGH THE DOOR.

HOLES C, D & F (IF USED):

ON *INSIDE* FACE OF DOOR
COUNTERSINK HOLES $\varnothing 10\text{mm}$.

HOLES B & C:

FROM *OUTSIDE* FACE OF DOOR
COUNTERBORE HOLES $\varnothing 8 \times 22\text{mm}$ DEEP.

PREPARE TWO SHORT SCREWS:

MEASURE DOOR THICKNESS **SUBTRACT 5mm**.
CUT SCREWS TO THIS LENGTH. USE IN HOLES: B & C

PREPARE TWO / THREE LONG SCREWS:

MEASURE DOOR THICKNESS **ADD 12mm**.
CUT SCREWS TO THIS LENGTH. USE IN HOLES: E, D & F (IF USED)

PREPARE SQUARE SPINDLE:

MEASURE DOOR THICKNESS **ADD 12mm**.
CUT SPINDLE TO THIS LENGTH.

TEMPLATE 5

FOR FITTING 300 K KNOB OUTSIDE ACCESS DEVICE

USE THIS WAY UP ON
INSIDE FACE OF DOOR

EDGE OF LEFT HAND STANDARD DOOR FRAME (FOR REFERENCE)

EDGE OF LEFT HAND STANDARD DOOR FRAME (FOR REFERENCE)

HOLE A:
DRILL ONE HOLE $\varnothing 19\text{mm}$ THROUGH THE DOOR.

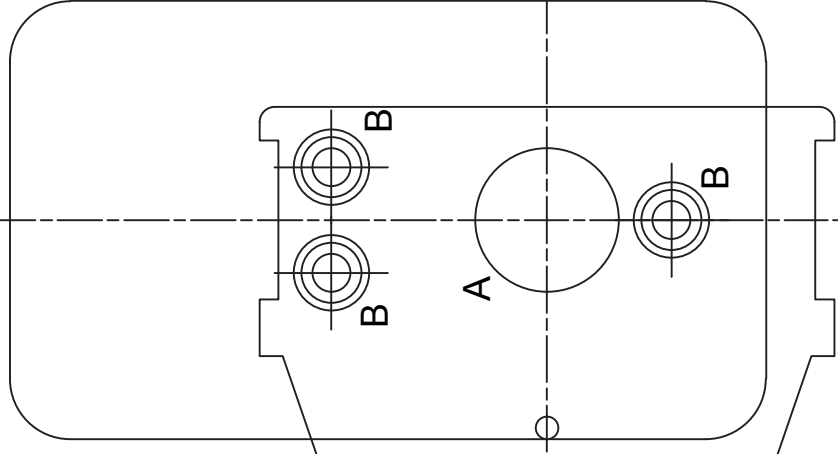
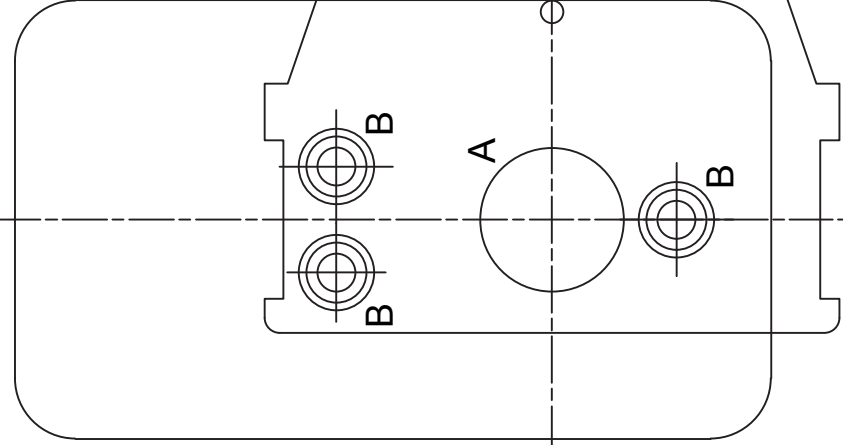
HOLES B:
DRILL $\varnothing 5\text{mm}$ THROUGH THE DOOR.
ON *INSIDE* FACE OF DOOR COUNTERSINK $\varnothing 10\text{mm}$.
FROM *OUTSIDE* FACE OF DOOR COUNTERBORE $\varnothing 8 \times 22\text{mm DEEP}$.

PREPARE THREE SCREWS:
MEASURE DOOR THICKNESS **SUBTRACT** 8mm.
CUT SCREWS TO THIS LENGTH.

PREPARE SQUARE SPINDLE:
MEASURE DOOR THICKNESS **ADD** 14mm.
CUT SPINDLE TO THIS LENGTH.

USE FOR LEFT HAND DOOR

USE FOR RIGHT HAND DOOR



LISTED ACCESSORIES

Only the accessories listed below can be used with this product range.

The use of any other accessory may invalidate the relevant products EN1125 CE certification.

PRODUCT No.	DESCRIPTION	COMPATIBILITY
OUTSIDE ACCESS DEVICES		
300 K	Knob operated Outside Access Device	use with all GEZE IQ Bar 300 series range
300 L EC	Lever operated Outside Access Device with Euro cylinder	
KEEPS		
406A	Pullman Latch Keep for flush doors / frames	Use with: IQ Bar 362 V, IQ Bar 392 V, IQ Bar 363 V, IQ Bar 393 V, IQ Bar 362 AL, IQ Bar 363 DL, IQ Bar 364 DL
406B	Centre Latch Keep for rebated double / flush doors	Use with: IQ Bar 361, IQ Bar 391, IQ Bar 363 V, IQ Bar 393 V As supplied with IQ Bar 363 DL
3402	Standard Pullman Latch Keep	IQ Bar 362 V, IQ Bar 392 V, IQ Bar 363 V, IQ Bar 393 V, IQ Bar 362 AL, IQ Bar 363 DL, IQ Bar 364 DL
4401	Standard Centre Latch Keep	As supplied with: IQ Bar 361, IQ Bar 391, IQ Bar 363 V, IQ Bar 393 V

Unless other wise stated compatibility is assumed with all the various suffixed variations (e.g. 'AL' & 'MS') of the basic product.

CE MARKING

All devices are intended for use on single / double outward opening route escape doors, fire / none-fire rated dependant on device (see below).

Where fire rated; devices are certified for use on the following door assemblies for the stated times:

60 minutes on Timber door assemblies (doorsets to EN 1634-1 Codes: TT, ITT and ITC).

240 minutes on Steel door assemblies (doorsets to EN 1634-1 Codes: IMM, and MM).

Minimum resistance for all devices: a maximum pulling force of 1000N was achieved against the fixings under the abuse test.

Below is the CE marking information for the entire range. Applicable products are clearly listed below their relevant markings.

<p>CE</p> <p>1121</p> <p>EN 1125: 2008</p> <p>PANIC EXIT DEVICES</p> <p>3 7 6 B 1 3 2 2 B A</p> <p>AAA042</p> <p>11</p>	
<p>Category 2 Projection.</p> <p>Field of Door application:</p> <p>Category A (Single & Double)</p> <p>Suitable for use on fire / smoke doors.</p>	
<p>Applicable to Products:</p> <p>IQ Bar 361, IQ Bar 391,</p> <p>IQ Bar 362 V, IQ Bar 392 V,</p> <p>IQ Bar 363 V, IQ Bar 393 V,</p> <p>IQ Bar 361 AL, IQ Bar 362 AL,</p> <p>IQ Bar 363 DL, IQ Bar 364 DL</p>	
<p>GEZE GmbH, Reinhold-Vöster-Str. 21-29, D-71229 Leonberg</p>	

The product codes listed above refer to the Exidor OEM product model numbers. These are as appear on the main installation instruction sheet.

It is taken as read that these also include all the suffixed versions of the basic models for: 'AL' (alarm), 'MS' (microswitch) where applicable.

These are as listed on the relevant CE certificates.

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