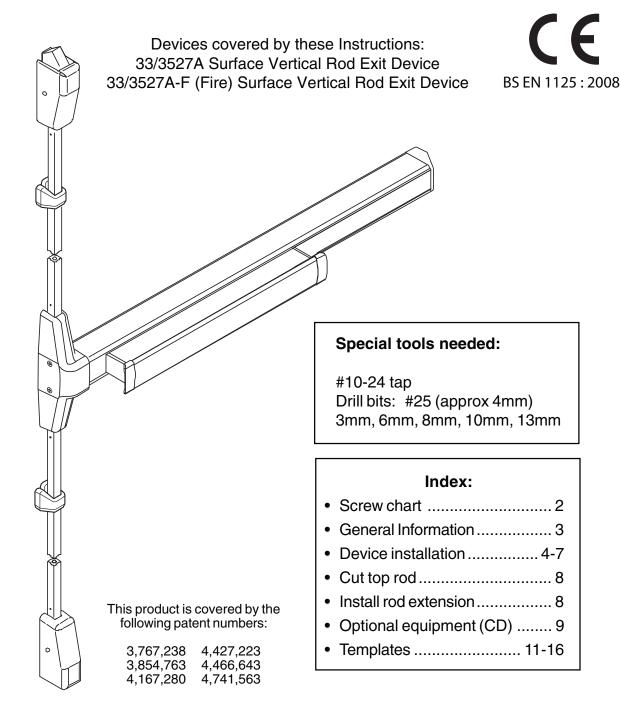


33/3527A & 33/3527A-F **VON DUPRIN**.

911398-00

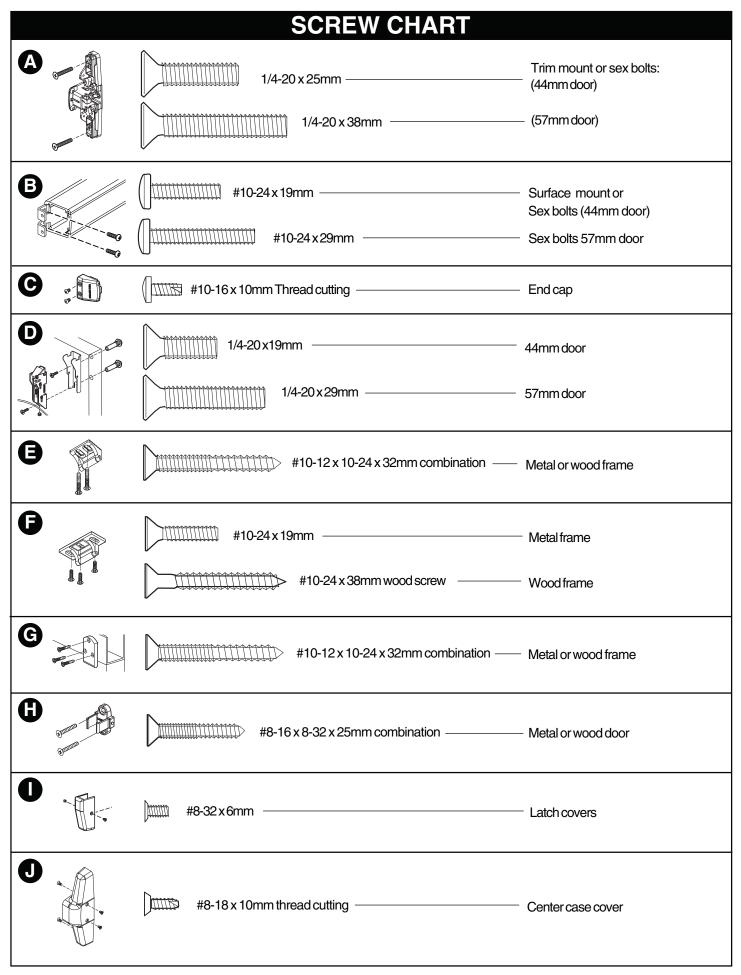
Surface Vertical Rod Exit Device

Installation Instructions



Please give these instructions to building owner after device is installed





GENERAL INFORMATION

These exit devices can be installed on the door widths listed below:

Device & Strike Device Size		Code/Standard Requirement	Effective Door Width	
3327A/3527A Rim		BS EN 1125 : 2008	641 mm - 762 mm	
3327A/3527A Rim		BS EN 1125 : 2008	794 mm - 1016 mm	

A

WARNING

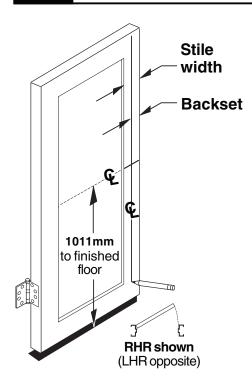
The safety features of this product are essential to its compliance with BS EN 1125 : 2008. No modifications of any kind, other than those described in these instructions, are permitted.



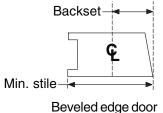
NOTE

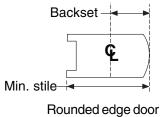
Dogging panic device during high traffic periods will increase life of device. To dog, depress pushbar and turn hex key or cylinder key one-quarter turn clockwise.

Figure backset and draw device center lines () on door as shown.



Backset is measured from outer edge of door as shown. Minimum stile is less glass stop (rectangular glass stop is recommended for stiles less than 54mm)





Backset	Min. stile	Application	
30mm	51 - 70mm		
38mm	70 - 95mm	Two vertical	
48mm	95 - 127mm	rod devices	
64mm	127mm to flush		
34mm	51 - 70mm	Single door	
38mm	70 - 95mm		
48mm	95 - 127mm	On Igio door	
64mm	127mm to flush		
56mm	76mm	Vertical rod and rim device	

Note: For 299/299F top strike use minimum backsets shown below.

Double doors: 35mm min. backset

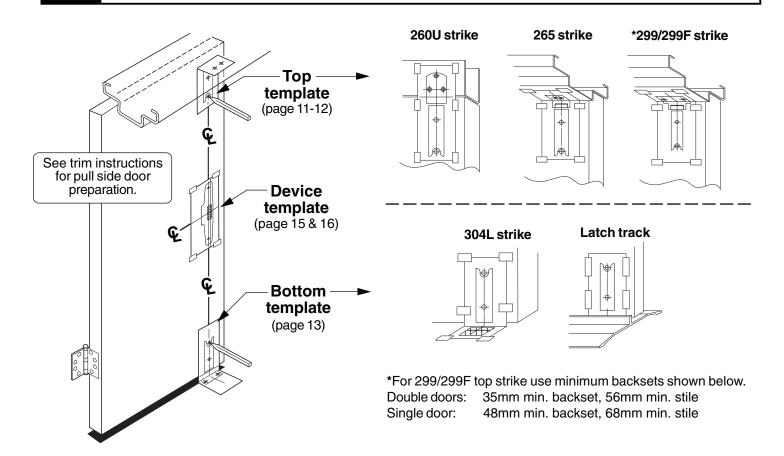
56mm min. stile

Single door: 48mm min. backset

68mm min. stile

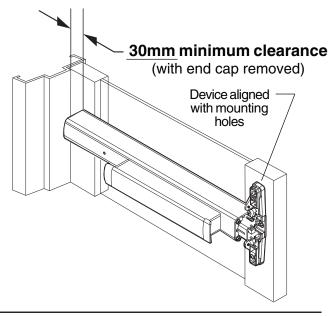
2

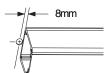
Tape templates to door and prepare door and frame per templates.



3

Measure to determine length to cut device.





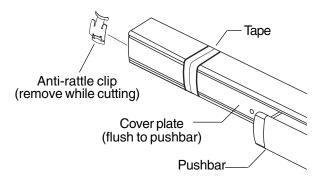
Note

If 16mm diameter wire access hole has been predrilled in door, cut device 8mm from center of hole.

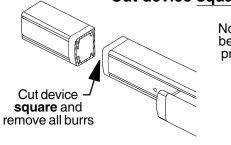
4

Cut device to length.

Prepare device for cutting



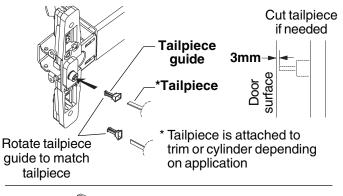
Cut device square

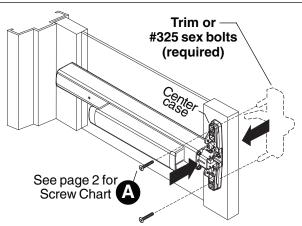


Note: Device must be cut **square** for proper end cap fit



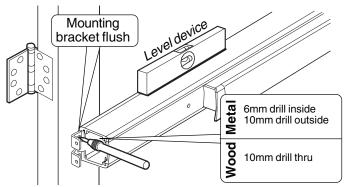
Install tailpiece guide and trim (or sex bolts) and secure device center case to door.



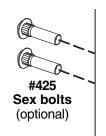


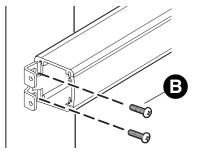
Install hinge stile mounting bracket.

Mark and prepare 2 mounting holes

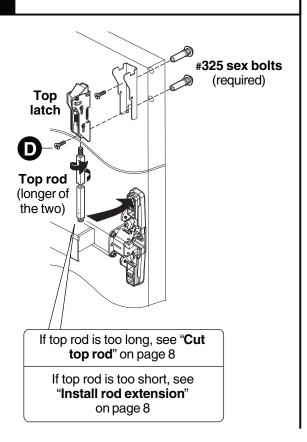


Secure mounting bracket





Install top latch and rod.



265 strike For panic device application only 299/299F strike 299/299F strike Shim to 5mm as shown

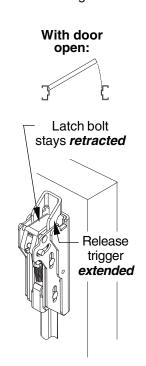
Install top strike.

Adjust top rod until latch bolt acts as shown.

Adjust rod by threading rod into latch clockwise to shorten, and counterclockwise to lengthen.

Latch bolt deadlocked (will not push in)

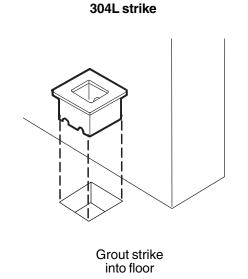
With door



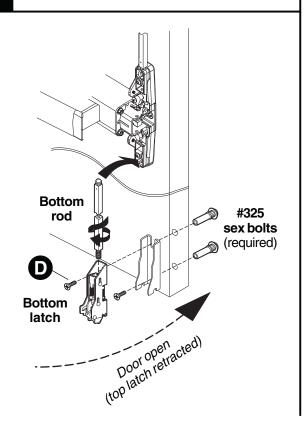
Install bottom strike.

Strike plate

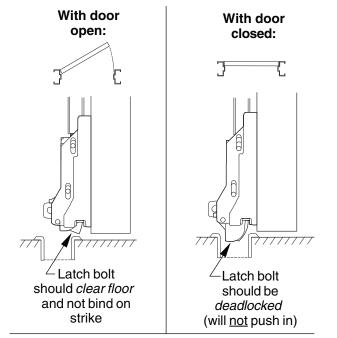
(299 only)



Install bottom latch and rod.



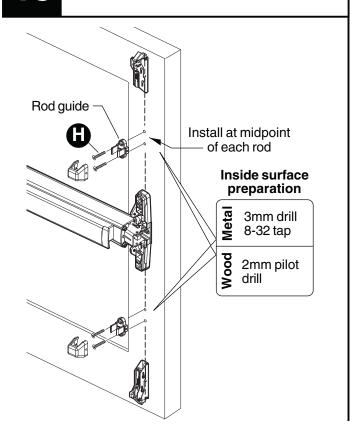
Adjust bottom rod with door open (top latch retracted).



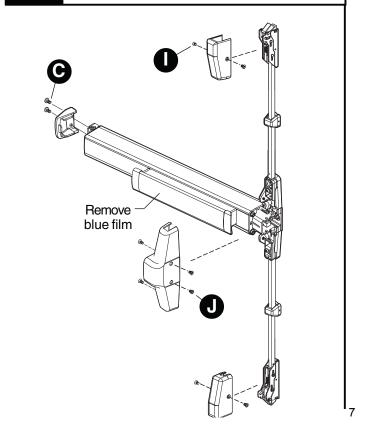
Open and close door a few times and check for deadlocking when door is closed

Readjust rods if needed

13 Install rod guides.



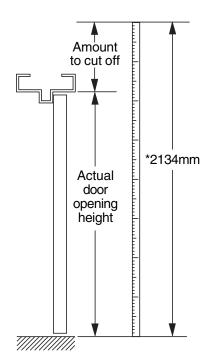
Install covers and end cap.



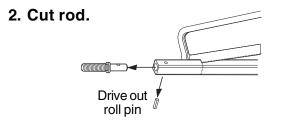
CUT TOP ROD

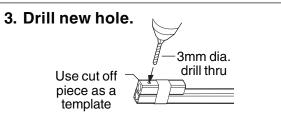
1. Measure amount to cut off rod as shown below.

Note: Rod cutting is required for doors shorter than 2134mm.

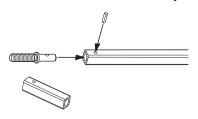


*Rods are factory sized for 2134mm door. Measure actual door height and subtract that number from 2134mm to get amount to cut off top rod.



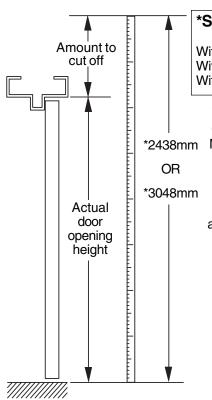


4. Reinstall rod end and roll pin.



INSTALL ROD EXTENSION

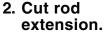
1. Measure door opening to determine amount to cut off rod extension.

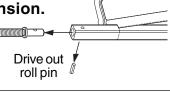


*Standard door heights:

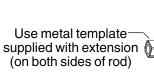
With no extension 2134mm With 305mm extension 2438mm With 914mm extension 3048mm

*Rods are factory sized for door heights shown above. Measure actual door height and subtract that number from 2438mm (for 305mm extension) or 3048mm (for 914mm extension) to get amount to cut off extension.





3. Drill new hole.

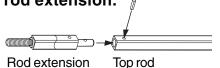




4. Reinstall rod end and roll pin.



5. Connect top rod and rod extension.

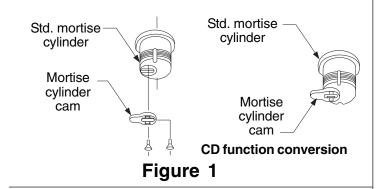


Rod extension

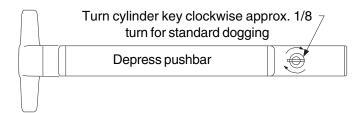
OPTIONAL EQUIPMENT

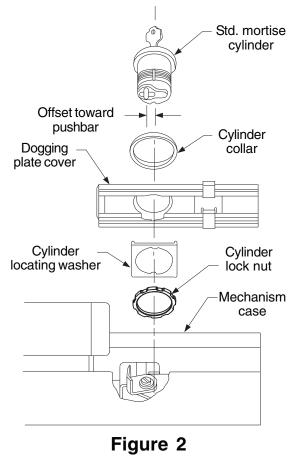
CD (CYLINDER DOGGING)

- 1. Remove mortise cylinder cam and reinstall in reverse (Figure 1).
- 2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
- **3.** Remove key to slide cover plate in position in the mechanism case.



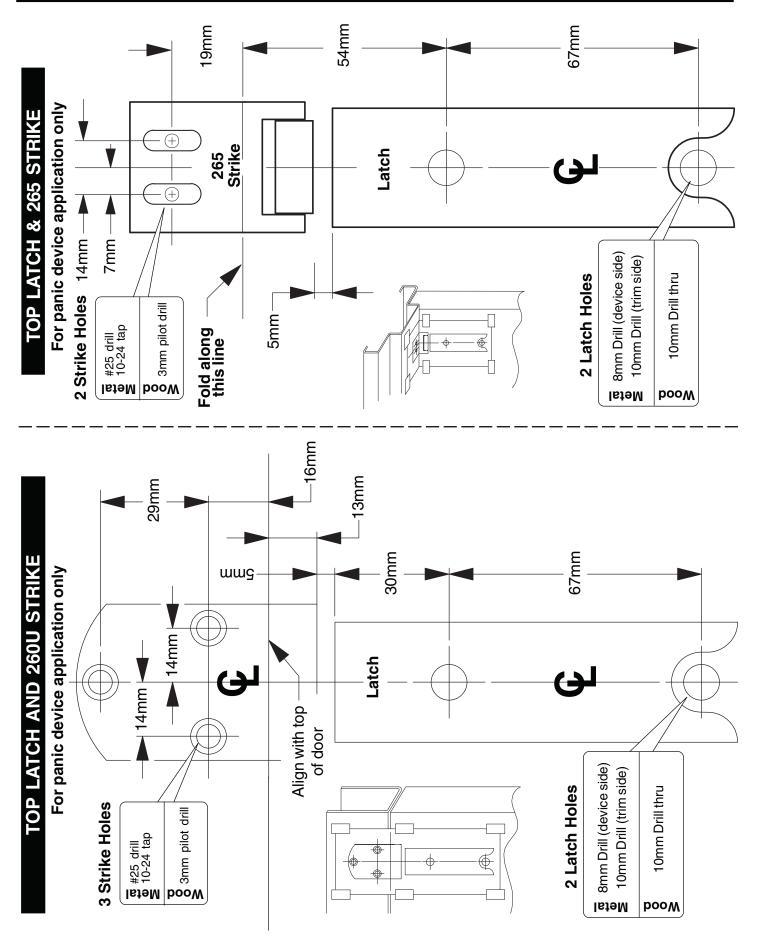
Dogging procedure





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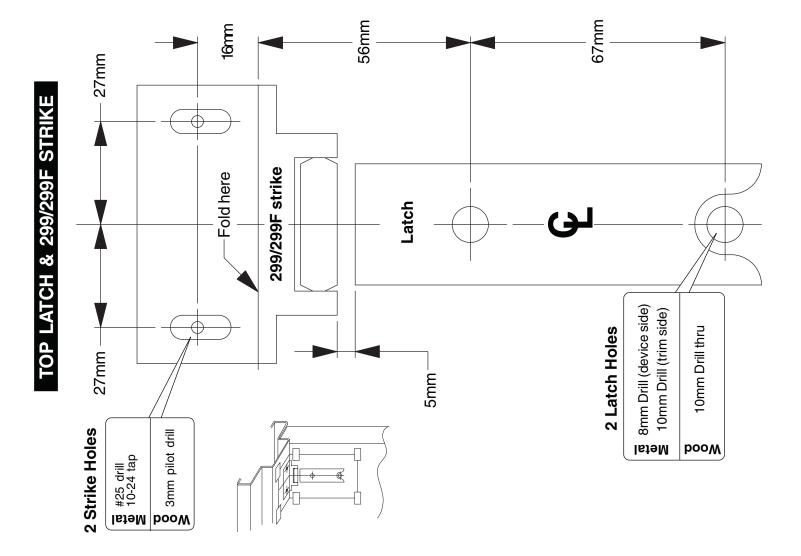
TOP TEMPLATE



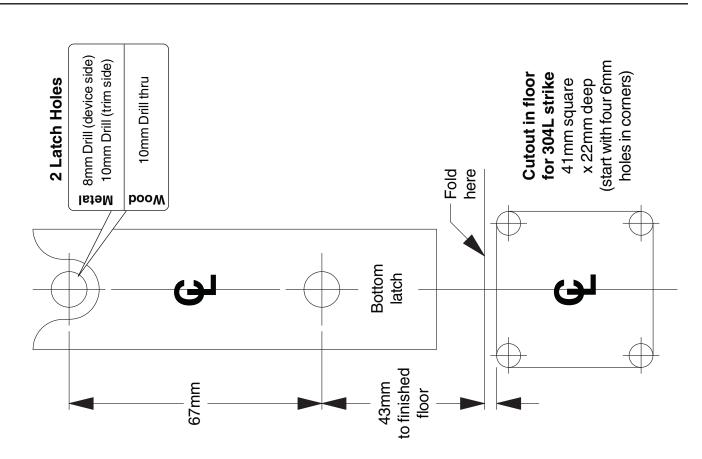
TOP TEMPLATE - CONTINUED

Note: For 299/299F top strike use minmum backsets shown below.

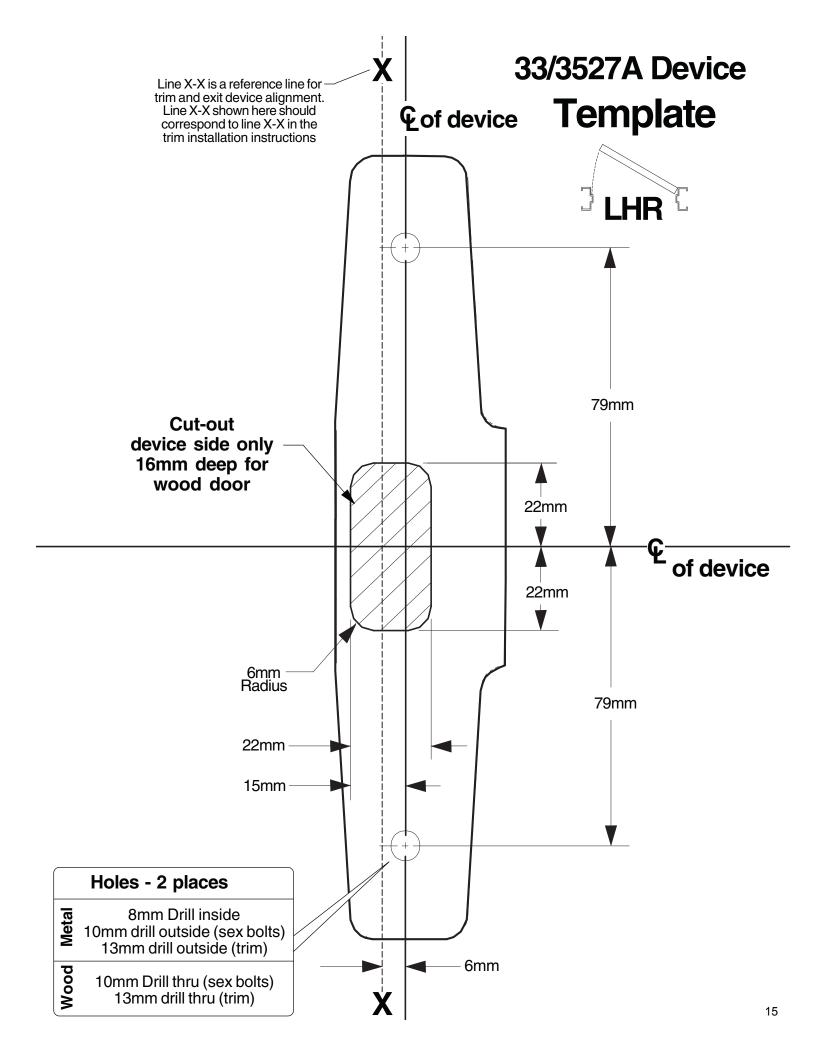
Double doors: 35mm min. backset, 56mm min. stile Single door: 48mm min. backset, 68mm min. stile

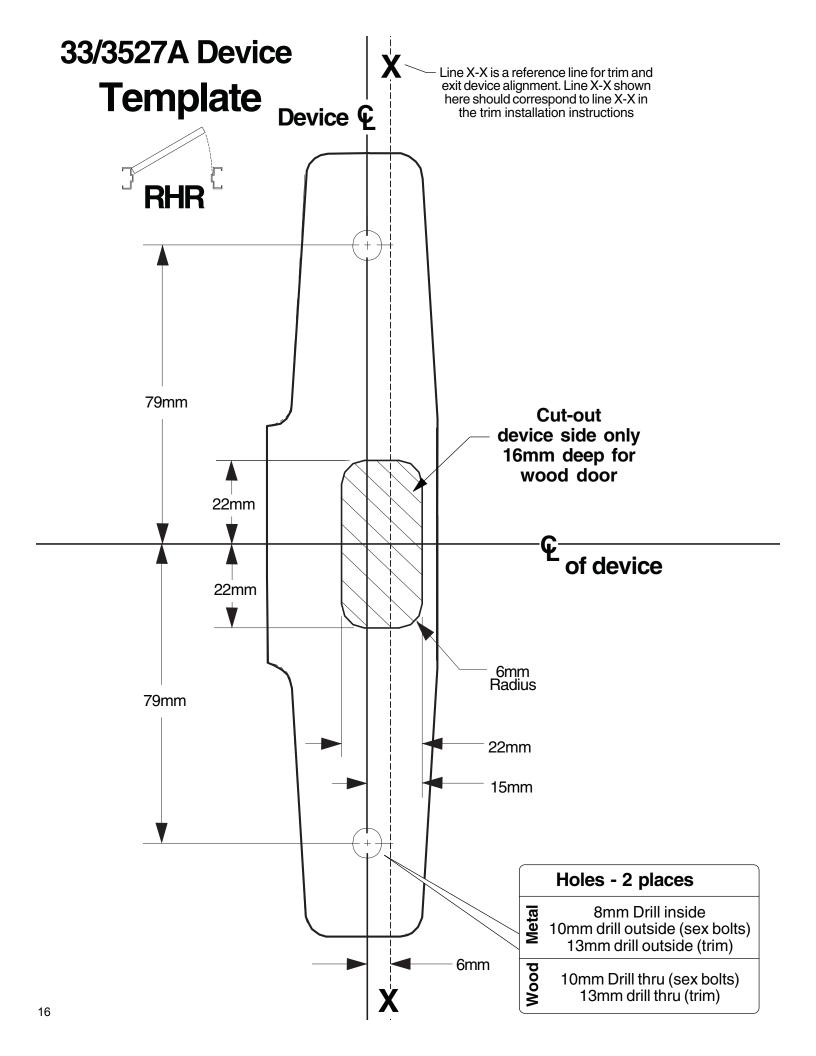


8mm Drill (device side) -Threshold 10mm Drill (trim side) BOTTOM LATCH AND LATCH TRACK 10mm Drill thru 2 Latch Holes Metal booW Top of latch track track as shown below Align with top of latch Bottom latch top of latch 40mm to 67mm track



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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

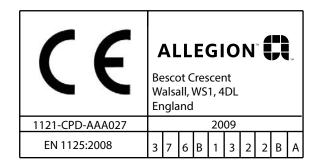
To ensure performance in accordance with the relevant standard, the following routine maintenance checks should be undertaken at intervals of not more than one month.

- 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.

PRODUCT INFORMATION

- To comply with EN1125 : 2008 door leaf must not exceed 2500mm high x 1300mm wide x 200Kg maximum weight.
- This product is intended for use on single and / or double leaf outward opening fire escape route doors.
- 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.



FIRE / SMOKE DOOR SUITABILITY

120 minutes except when fitted with approved trim devices shown in the table below

Door type: Insulated timber or mineral composite tested in accordance with BS EN1634-1 : 2000 (single or double leaf configuration)

Note - when fitted with the following accessories, fire door suitability is reduced to 60 minutes

22 Series	210DT#	210NL*	230L#	230DT#	230NL*
33A Series	OL*	360T*	386NL#	386DT#	388*
35A Series	OL*	360T*	386NL#	386DT#	388*
98 Series	990DT#	990NL*	990TP*	991K*	992L*
99 Series	990DT#	990NL*	990TP*	991K*	992L*

All items marked '#' may be fitted to timber or mineral composite based doorsets for up to 60 minutes integrity.

All items marked '*' may be fitted to timber or mineral composite based doorsets for up to 60 minutes integrity, having a minimum thickness of 52mm and including sub facings comprising a minimum of 3mm thick non-combustible board, with their lock cylinders wrapped with a 1mm thick Interdens intumescent.

For additional information and full details of certification and fire door suitability:

Telephone: 01922 707400

www.allegion.com