#### EN 14351-1:2006+A1:2010

## **CE Marking guidance for Emergency Exit/Panic Doors**

Certification of 'Ability to release' of manually operated external pedestrian doorsets with emergency/panic exit devices in accordance with EN 179, EN 1125 or EN 1935

Extracts from guidance from Group of Notified Bodies for the Construction Products Directive. Guidance note NB-CPD/SG06/11/084

Requirements for CE Marking Emergency Exit/Panic Doors

- Evidence that the hardware used complies with the relevant harmonized standards (EN 179 or EN 1125, and EN 1935 if applicable). If the hardware used is not CE marked according to the relevant harmonized standards, evidence is required that it conforms with those standards. This may be assumed if the appropriate ITT and FPC tasks were undertaken by a NB. If not, the body certifying the ability to release needs to satisfy itself that the doorset manufacturer's FPC procedures for incoming parts will ensure that the hardware complies with those standards.
- If the emergency exit and/or panic devices are installed in the door production plant, installation instructions for the devices shall form part of the door manufacturer's assembly procedure. Otherwise, installation instructions for the emergency exit and/or panic devices shall be attached by the door manufacturer, or included in the door installation instructions. Emergency exit and panic devices shall be installed strictly in conformity with the instructions.
- Evidence by the means of drawings that the door has been checked for free movement (4.1.20 of EN 179 or 4.1.16 of EN 1125) for the construction of every door type:
- Evidence of the operability of the complete doorset by means of drawings, and evidence of its durability by the means of the manufacturer's documentation.
- Implement of an Factory Production Control to ensure consistency of performance. The FPC should be audited by an external notified body.

### **Factory Production Control**

Guidance for Factory Production Control procedures for emergency/panic exit devices.

#### 3.1 Incoming goods quality control

The quality system of the door manufacturer shall include procedures to inspect, register inspection results and define the acceptance criteria of incoming building hardware such as locks, fittings, striking plates, including emergency exit and panic devices, and their completeness.

#### 3.2 Design / Preparatory work

The following details shall be addressed by the manufacturer in a procedure and checked:

- that the products/components he is using are included in the specific documentary evidence;
- that the opening devices applied to doors are in accordance with the field of application against the relevant building hardware standard (EN 179/EN 1125/EN 1935, whichever applies)
- assembly/installation instructions shall include specifications explaining how to mount the opening devices, including gaps and dimensions, and the fittings to be used.

#### 3.3 Manufacturing process

The manufacturer's quality control of the production shall check and document that the installation, or the preparation for the installation, of the emergency exit and panic devices fittings strictly follows the fixing instructions. This includes checking that the positions for fixings and reinforcements on the (primary and secondary) leaf and the frame, including dimensions and tolerances, are correct.

#### 3.4 Final door assembly

The manufacturer's quality control shall provide means for the installer of the opening devices to check and document that the assembly/installation instructions have been strictly followed, including defined gaps and dimensions.

#### 3.5 Inspection of finished products in the production plant

The manufacturer shall define procedures and intervals for checking doors to be able to ensure conformity of production to the requirements of the relevant standards.

The results of the following shall be recorded with name of the tester and date of test:

- all elements of building hardware;
- dimensions and tolerances;
- operability (ability to release and fully open);
- infillings / transparent infillings;
- frame fixings such as anchoring devices;
- gap dimensions;
- operating force of the opening device when latch bolt is engaged;
- operating force of the opening device when latch bolt and bolt are engaged;
- accompanying documents such as installation instructions and maintenance manual.

#### 3.6 Installation on site

Checks that only can be performed after installation on site (opening and closing of the door and the door free movement of the installed doorset) shall be highlighted and described in detail in the installation instructions, including acceptance criteria. The installation instructions shall also stress that the installer shall keep evidence of the results of the checks of every door.

The following checks shall be confirmed with name of the installer, his company and date of test:

- tight fit of lock installation;
- tight fit of hardware fixing;
- tight fit of locking plate;
- tight fit of hinges;
- latch bolt engagement;
- check whether the latch bolt and bolts are completely retracted when operating the opening device with the bolt engaged
- operating force of the opening device when latch bolt is engaged (if not measured in the production plant);
- operating force of the opening device when latch bolt and bolt is engaged (if not measured in the production plant).

## BS EN 179:2008 EN 179:2008 (E)

#### 4.1.20 Accessible gap

An emergency exit device shall be designed such that the top surface of any operating element, chassis or other mounting assembly does not contain any accessible gap that could inadvertently be blocked by a foreign object, resulting in failure of the emergency exit device to operate.

A steel piece of 10 mm  $\times$  15 mm  $\times$  20 mm placed in any accessible gap and in any orientation shall not prevent correct operation of the emergency exit device.

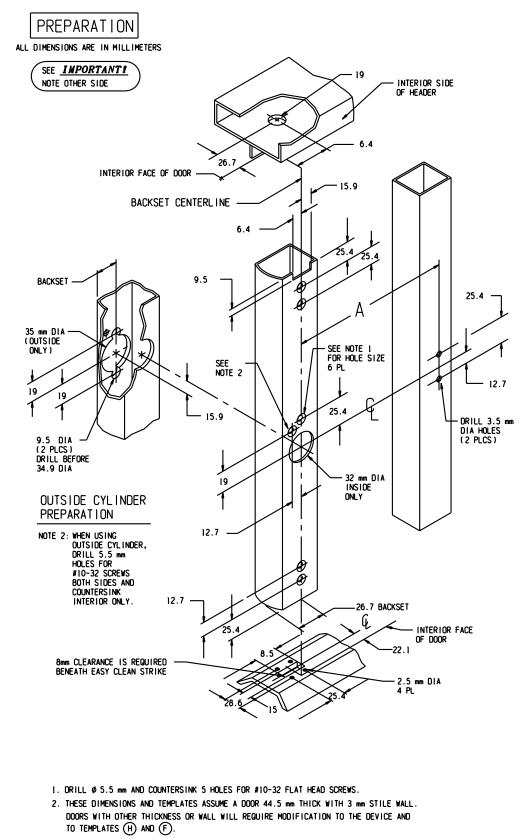
Compliance shall be verified by visual inspection and measurements.

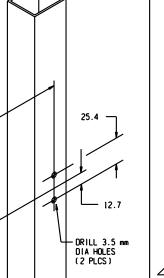
#### 4.1.16 Accessible gap

A panic exit device shall be designed such that the top surface of any operating element, touch-bar, chassis or other mounting assembly does not contain any accessible gap that could inadvertently be blocked by a foreign object, resulting in failure of the panic exit device to operate.

A steel test piece of 10 mm  $\times$  15 mm  $\times$  20 mm placed in any accessible gap and in any orientation shall not prevent correct operation of the panic exit device.

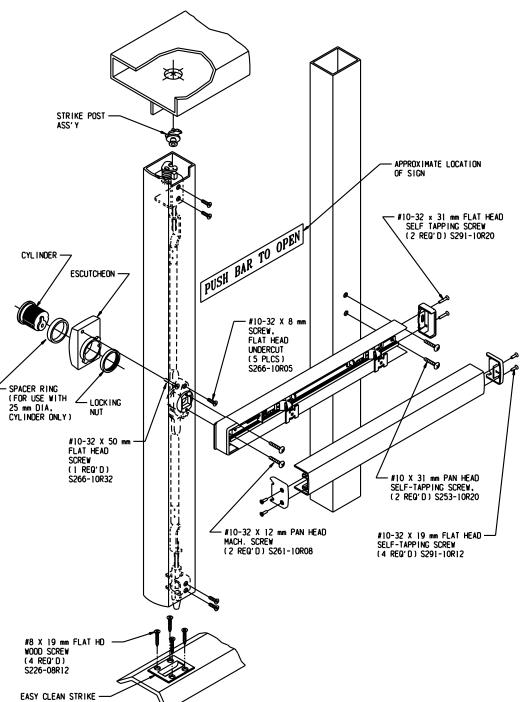
Compliance shall be verified by visual inspection and measurements.





# INSTALLATION

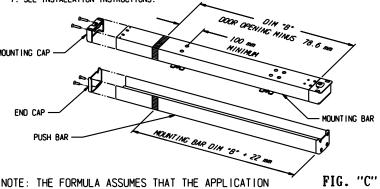
NOTE: Discard Excess Screws from Universal Package



BACKSET	DOOR OPENING WIDTH (mm)				
26.7 mm	600	750	900	1050	1200
ом Д	529	679	829	979	1129

#### CUT-OFF INSTRUCTIONS FOR NON-STANDARD DOORS

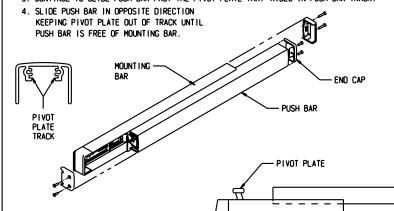
- 1. SEPERATE PUSH BAR & MOUNTING BAR (SEE BELOW)
- 2. DETERMINE EXTRUSION LENGTH ("B" DIM). NOTE: 100 mm MINIMUM DIMENSION FROM END OF BACKBAR TO NEW CUT-OFF LENGTH AS SHOWN.
- 3. MEASURE MOUNTING BAR, TAPE AND MARK EXTRUSION LENGTH.
- 4. MEASURE PUSH BAR, TAPE AND MARK EXTRUSION LENGTH.
- 5. SAW OFF EXCESS LENGTH, REMOVE TAPE AND DEBURR.
- 6. DRILL MOUNTING HOLES IN BACKBAR USING DRILLING TEMPLATE 80-0180-912
- 7. SEE INSTALLATION INSTRUCTIONS.



NOTE: THE FORMULA ASSUMES THAT THE APPLICATION IS A FLUSH FRAME, REBATED FRAMES NEED TO BE CONSIDERED SEPERATELY AS A DEEPER DOOR STILE MAY BE REQUIRED DEPENDING ON THE DEPTH OF THE REBATE. CONSULT THE FACTORY TO DISCUSS INDIVIDUAL REQUIREMENTS.

#### SEPARATING PUSH BAR AND MOUNTING BAR PROCEDURE

- 1. REMOVE HINGE END-BACKBAR CAP. REMOVE BOTH END CAPS.
- 2. SLIDE PUSH BAR TOWARD HINGE SIDE OF DOOR.
- 3. CONTINUE TO SLIDE PUSH BAR PAST THE PIVOT PLATE THAT RIDES IN PUSH BAR TRACK.



#### INSTALLING PUSH BAR TO MOUNTING BAR

. WITH PUSH BAR IN HAND AND MOUNTING BAR ATTACHED TO DOOR, SLIDE THE PIVOT PLATE NEAREST HINGE INTO TRACK OF PUSH BAR UNTIL SECOND PIVOT PLATE IS EXPOSED. INSERT PIVOT PLATE INTO TRACK ON PUSH BAR AND SLIDE IN OPPOSITE DIRECTION UNTIL PUSH BAR AND MOUNTING BAR ALIGN.

> PRODUCT MUST BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND LIFE SAFETY CODES



Adams Rite Europe LTD. The Meadows, Cannock Road Wolverhamton WV10 ORR 80-0180-960

960 EXIT DEVICE



CERTIFICATE OF CONFORMITY No. 1121-CPD-AAA014

**INSTALLATION INSTRUCTIONS** 

Rev. **B.0** 

Ecn 11450

Date: 10/26/09

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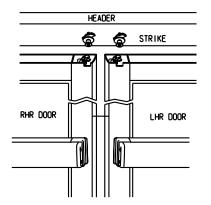
Appvd:

Date:

# INSTALLATION INSTRUCTION CHECKLIST

ADAMS RITE **SERIES** 

DEVICE

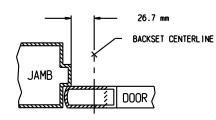


#### IMPORTANT!

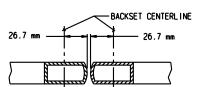
This device is unhanded. It can be installed in either left hand reverse or right hand reverse doors without alteration. The doors' lead stile and header preparation are IDENTICAL not mirror image. Note in the sketch above that the yoke type bolt always faces right (as viewed from inside) and the strike post is toward the right of the backset centerline for both doors.

NOTE STEPS 1 THRU 9 ARE MORE EASILY ACCOMPLISHED IF DOOR IS NOT INSTALLED IN FRAME.

#### HOW TO FIND BACKSET

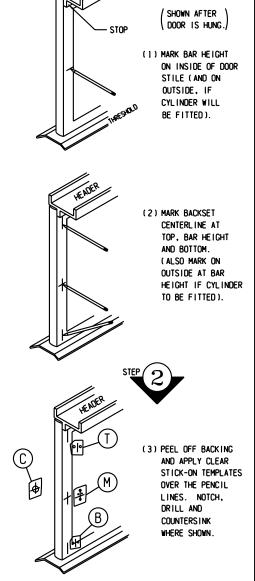


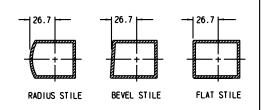
REBATED FRAME SEE PAGE 1 FIG "C" AND NOTE



BEVEL STILE AND FLAT STILE APPLY TO SINGLE DOOR ONLY.

PAIR DOOR

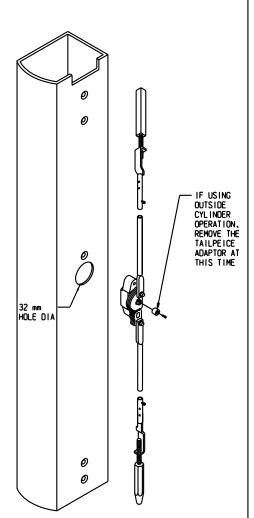




BACKSET IS MEASURED AT DOOR CENTERLINE, NOT THE EDGE .

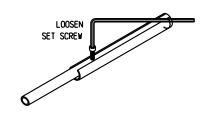


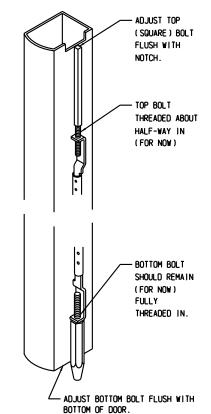
LAY ROD MECHANISM ON PREPARED DOOR WITH GEAR PLATES OUTWARD AND CASTING RESTING IN 31.8 mm DIAMETER HOLE IN DOOR AS SHOWN BELOW.





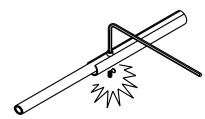
ADJUST RODS TO APPROXIMATE LENGTH. (ROUGH ADJUSTMENT FOR NOW)

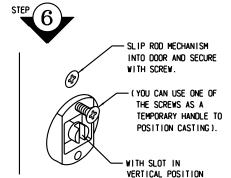


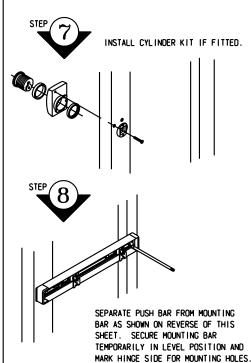




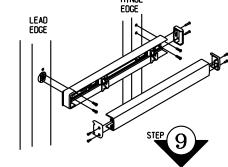
WHEN ROUGH ADJUSTMENT OF RODS IS CORRECT. TIGHTEN METAL-PIERCING SCREWS ALL THE WAY THRU TUBE, YES! ALL THE WAY THROUGH AND TIGHT.



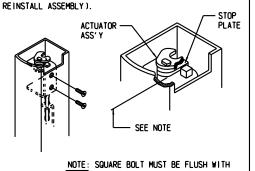




REMOVE BAR, DRILL 4 mm DIA HOLES AT HINGE EDGE. INSTALL BAR WITH TWO #10 X 1 1/4 SELF-TAPPING
SCREWS AT HINGE EDGE AND TWO #10-32 X 1/2 MACHINE
SCREWS AT LEAD EDGE.
HINGE



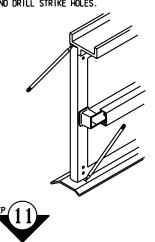
INSTALL TOP BOLT ACTUATOR ASSEMBLY AND SECURE WITH TWO SCREWS. WITH ASSEMBLY IN LOCKED POSITION AND PUSH BAR RELEASED, END OF SQUARE BOLT SHOULD ENGAGE STOP PLATE AS SHOWN. (FOR FINE ADJUSTMENT, REMOVE ACTUATOR ASSEMBLY, ADJUST BOLT UP OR DOWN AND REINSTALL ASSEMBLY).



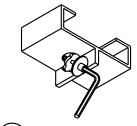
TOP OF STOP PLATE.



INSTALL DOOR IN FRAME. MARK BACKSET CENTERLINE ON HEADER AND THRESHOLD. ALSO MARK WHERE FACE OF CLOSED DOOR RESTS. APPLY CLEAR TEMPLATES (H) AND (F) AND DRILL STRIKE HOLES.

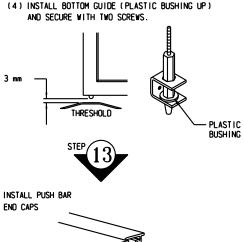


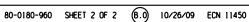
POSITION STRIKE PLATE ASSEMBLY ON HEADER. THEN, TIGHTEN SECURELY WITH HEX WRENCH.



(1) HOLD DOOR OPEN. (2) DEPRESS AND RELEASE PUSH BAR.

- (3) ADJUST BOTTOM BOLT SO IT CLEARS THRESHOLD BY 3 mm AS DOOR CLOSES.
- (4) INSTALL BOTTOM GUIDE (PLASTIC BUSHING UP)







## **Declaration of performance**

# CONSTRUCTION PRODUCTS REGULATION 2011 DECLARATION OF PERFORMANCE

		DoP No: 00	02PEDD	Issue No: 1	
1.	Unique identification code of	of the product-type	:		
	900 Series Panic Exit Device				
2.	Type, batch or serial number product as required under A			dentification of the	e construction
	Includes – 930 – 940 – 960 V	'ariants			
3.	Intended use or uses of the harmonized technical speci-				cable
	For use on single leaf and do	ouble leaf escape ro	ute doors		
4.	Name, registered trade nam manufacturer as required un			ontact address of	the
	Name: ASSA ABLOY LTD		Address: School Street		
	ASSA ABLOY		Willenhall West Midland WV13 3PW	s	
5.	Where applicable, name an mandate covers the tasks s			ed representative	whose
	Name: N/A		Address:		
	Insert Logo Here:				

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

Notified Body Details: Exova Warrington Certification - 1121		
Performed: BS EN1125:2008	Under System: 1	
Issued: 11th January 2010		

8. European Technical Assessment:

N/A			

9. Declared Performance:

Essential Characteristics	Performance	Harmonised Technical Specification
Ability to Release (for locked doors on escape routes)		·
Release function	Releases Immediately	
Panic exit device mounting	Concealed Mount	
Exposed edges & corners	No Sharp Edges	
Double doorset	Pass	
Bar installation	57mm	
Bar length	72%	
Bar projection	76mm – Category 2	
Bar end	N/A	
Operating bar face	87%	
Test rod	Satisfactory	
Door Face gap	49mm	
Accessible gap	Satisfactory	
Door free movement	No restriction	
Top vertical bolt	Anti Thrust Mechanism	
Keepers	Top & Bottom Keepers	
Keepers dimensions	Flush Floor	
Door mass & dimensions	2500mm height x1300mm width 200kg	
Outside access device	Satisfactory	
Release forces	Pass	
Security requirement	Grade 2	8
Durability of Ability to Release (for locked doors on escape routes)		EN1125:200
Corrosion resistance	Grade 3- 96hrs	N N
Temperature range	Suitable for operation between -10°C and +60°C	BS E

Covers for vertical rods	N/A - Concealed	
Lubrication	Every 20,000 cycles	
Re-engagement force	Pass	
Durability	200,000 cycles	
Abuse resistance-horizontal bar	Pass	
Abuse resistance-vertical rod	N/A – Concealed Rods	
Final Examination	Pass	
Self Closing Ability C (for fire/smoke doors on escape routes)		
Re-engagement force	Not suitable for use on fire/smoke doors	
Durability of Self Closing Ability C against ageing and degradation (for fire/smoke doors on escape routes)		
Durability	Not suitable for use on fire/smoke doors	
Re-engagement force	Not suitable for use on fire/smoke doors	
Resistance to Fire E (integrity) and I (insulation) (for use on fire doors)		
Suitability of panic exit devices for use on fire resisting doorsets assemblies – Additional requirements	Not suitable for use on fire resisting doorsets	
Control of Dangerous Substances	Pass – The materials in the device do not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards of any national regulations	

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in Point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in Point 4.

Signed for and on behalf of the manufacturer by:

Name and Function: David Wigglesworth – Managing Director

Place and Date of Issue: 18/02/2013

ASSA ABLOY LTD

Willenhall, West Midlands. WV13 3PW

Signature:

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