

European Guideline Appendix No: 1



*panic &
emergency exit
devices*

1 FOREWORD

This Appendix offers technical solutions according to table 8.1 in the European Guide Line ""Panic & Emergency devices"

These technical solutions apply for exit doors, not sliding doors, both with and without a fire separating function, which shall normally be locked from the outside and/or provide the means of controlling the passage of persons from the inside/outside.

This Appendix has been compiled by Guidelines Commission and adopted by all fire protection associations in the Confederation of Fire Protection Associations Europe.

Zurich, 30 November 2002

CFPA Europe

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Stockholm, 30 November 2002
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1.1 DOOR N 1, Single fire door

Fittings on the inside

Emergency exit device.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

The exit handle, operated with one hand, secures exit.

Option of authorised passage via a key.

Fitting on the outside

Lever handle.

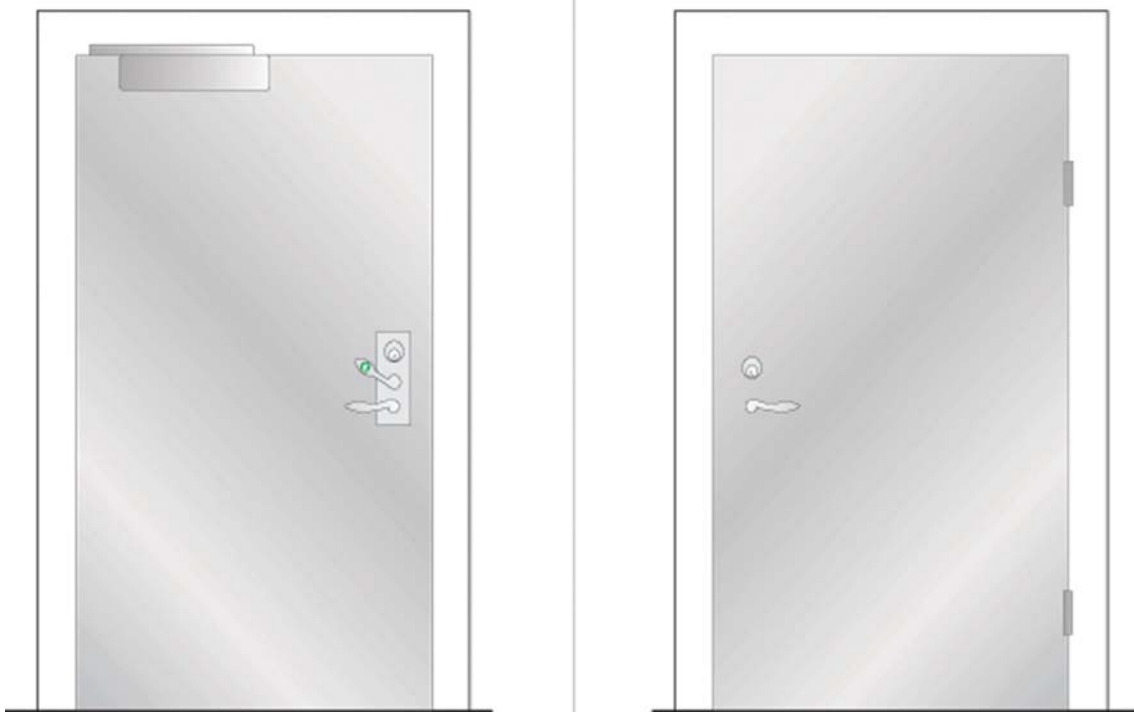
Functions on the outside

Lever handle secures return.

Option of authorised passage via a key.

Extra lock

When intruder protection locking is needed, this can be connected to the function essential for the activity.



1.2 DOOR N 2, Single door, not a fire door

Fittings on the inside

Emergency exit button.

Door holder magnet/electromechanical door bolt with standby power.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Exit via emergency exit button.

Option of authorised passage via key switch.

Option of automatic unlocking via fire alarm. (Not as the only function).

Fittings on the outside

Pull handle.

Pulse generator, e.g. card reader.

Functions on the outside

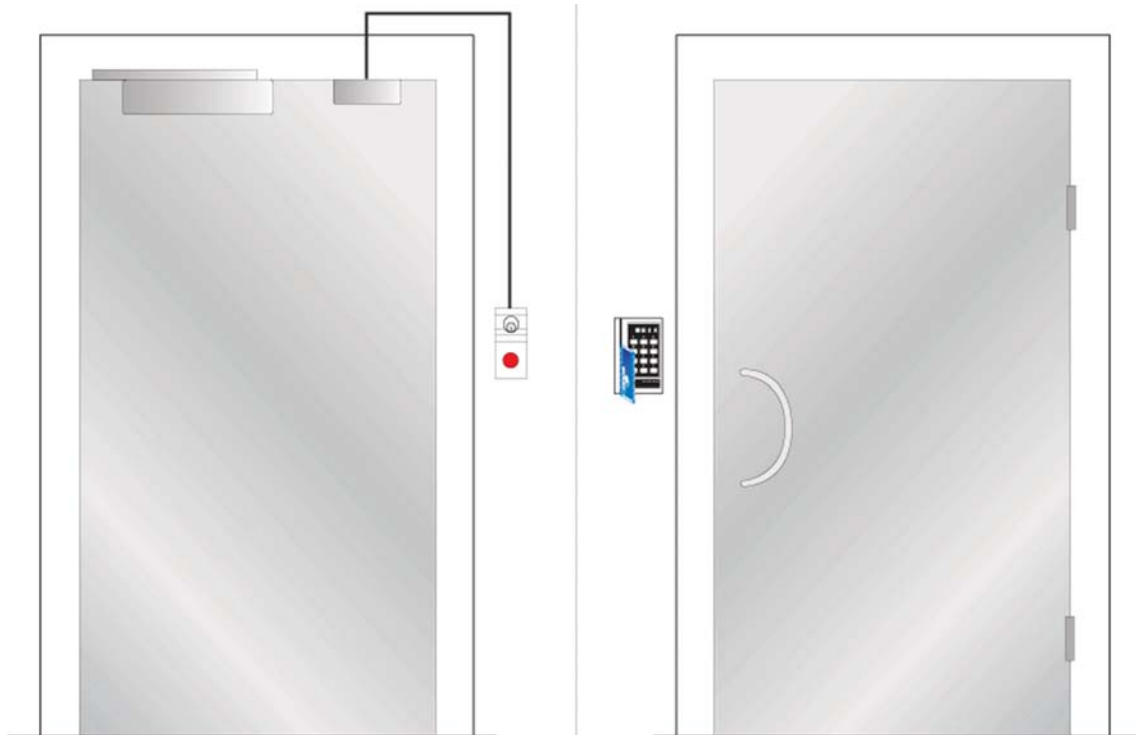
Return via pull handle after exit or activation of fire alarm.

Option of authorised passage via pulse generator.

Option of automatic unlocking via fire alarm. (Not as the only function).

Extra lock

When intruder protection locking is needed, this can be connected to the function essential for the activity.



1.3 DOOR N 3, Single door with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Emergency exit device.
Electric striking plate.
Pulse generator, e.g. card reader.
Door closer.

Functions on the inside

The exit handle, operated with one hand, secures exit.
Option of authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

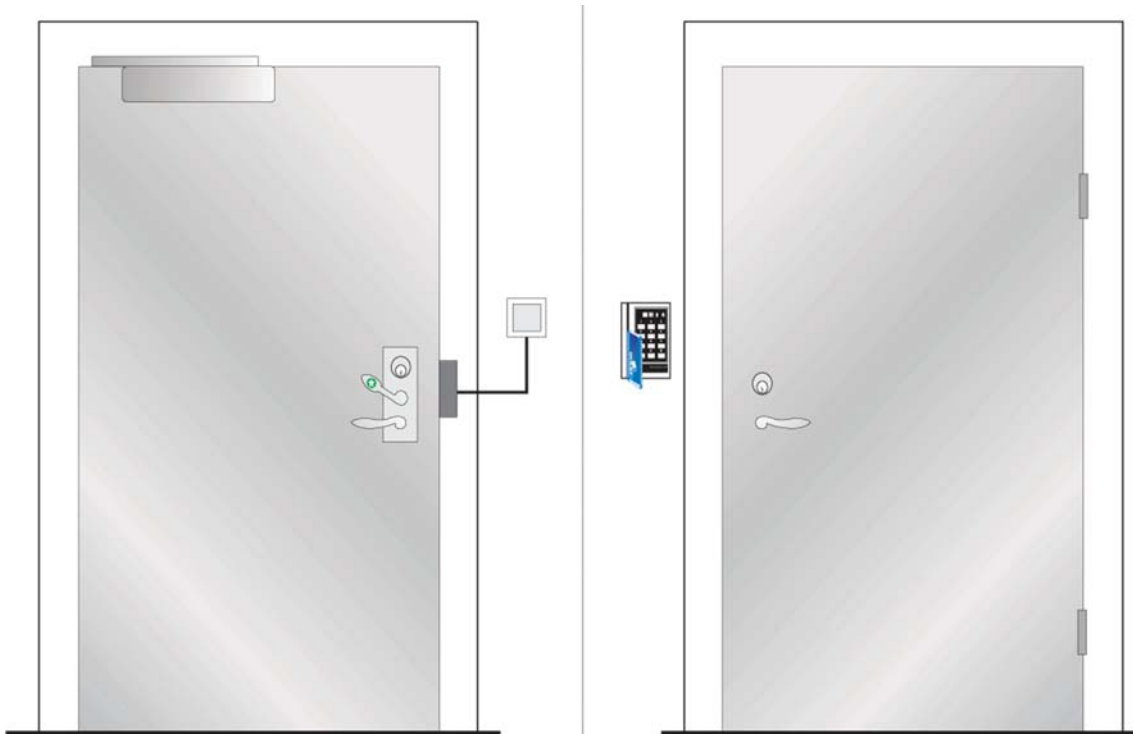
Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

Lever handle secures return.
Option of authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate. (Not as the only function).

Extra lock

When intruder protection locking is needed, this can be connected to the function essential for the activity.



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1.4 DOOR N 4, Single fire door

Fittings on the inside

Emergency exit device, as push pad
Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

The push pad, operated with one hand, secures exit.
Option of authorised passage via a key.

Fitting on the outside

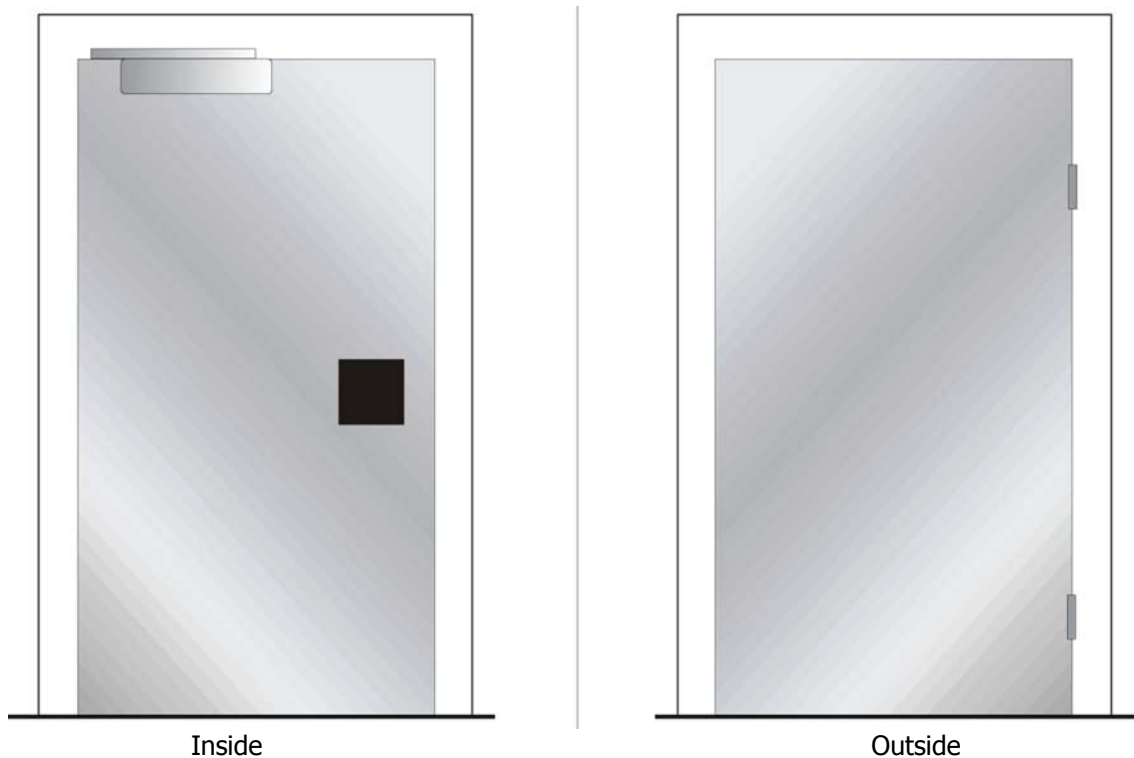
Option 1: See figure. Plain outside face.
Option 2: Cylinder + pull handle.

Functions on the outside

Option 1: See figure. No return.
Option 2: No return but authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



1.5 DOOR N 5, Single door with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Emergency exit device, as push pad
Electric striking plate.
Pulse generator, e.g. card reader.
Door closer.

Functions on the inside

The push pad, operated with one hand, secures exit.
Option of authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

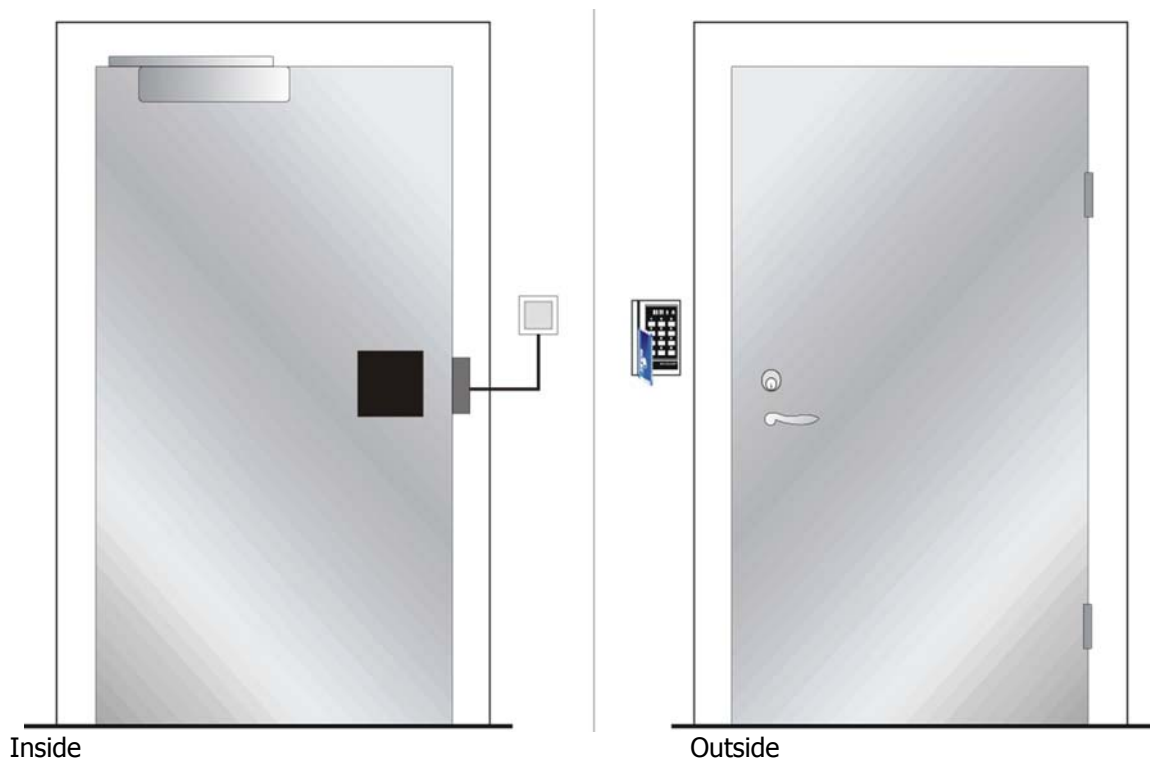
Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

No return but authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate.

Extra lock

When intruder protection locking is needed, this can be connected to the function essential for the activity.



1.6 DOOR P 1, Single fire door

Fittings on the inside

Panic bolt.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Panic bolt secures exit.

Option of authorised passage via key.

Fitting on the outside

Lever handle

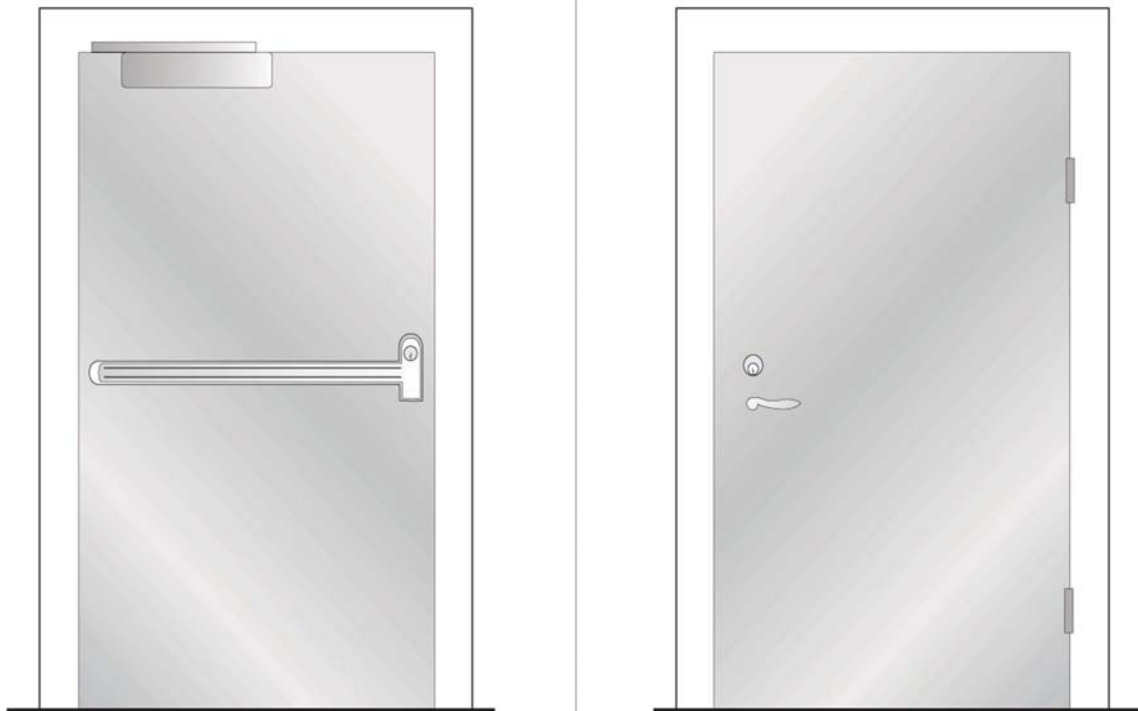
Functions on the outside

Lever handle secures return.

Option of authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



1.7 DOOR P 2, Single fire door

Fittings on the inside

Panic bolt.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Panic bolt secures exit.

Option of authorised passage via key.

Fittings on the outside

Option 1: See figure. Plain outside face.

Option 2: Cylinder + pull handle.

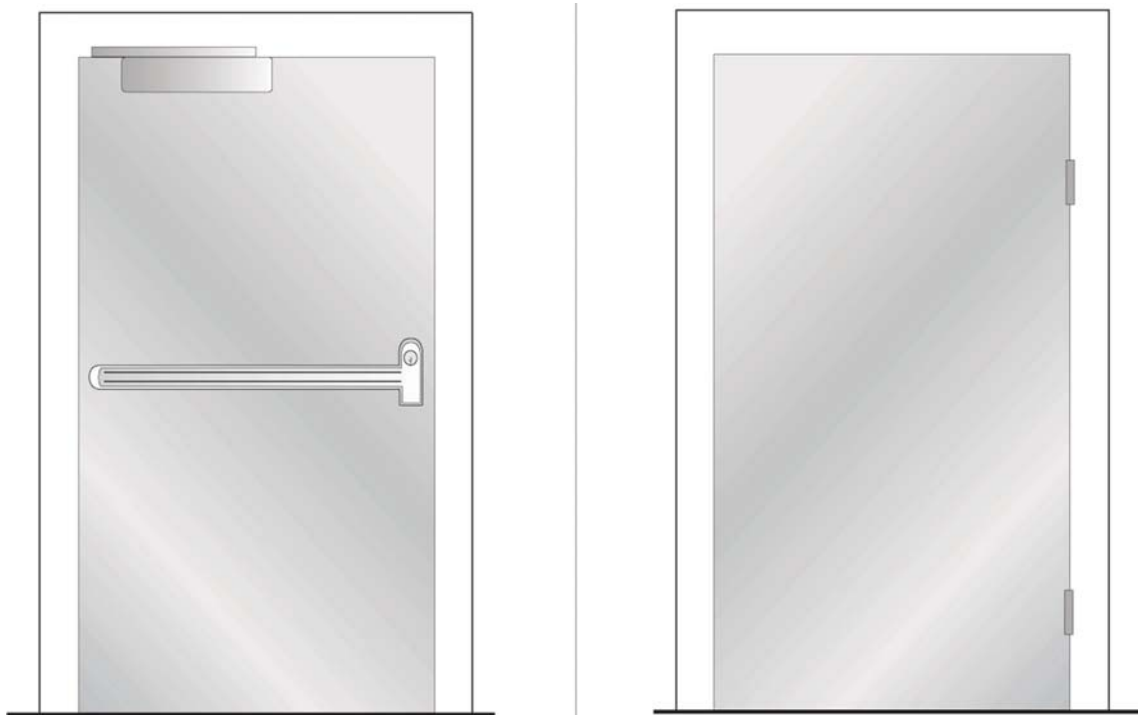
Functions on the outside

Option 1: See figure. No return.

Option 2: No return but authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



Option 1 of 2

1.8 DOOR P 3, Single fire door

Fittings on the inside

Panic bolt with micro switch.

Door holder magnet/electromechanical door bolt.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Panic bolt secures exit.

Micro switch secures opening of door holder magnet/electromechanical door bolt.

Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

Fittings on the outside

Option 1: Lever handle.

Option 2: See figure. Lever handle + pulse generator, e.g. card reader.

Functions on the outside

Option 1: Lever handle secures exit.

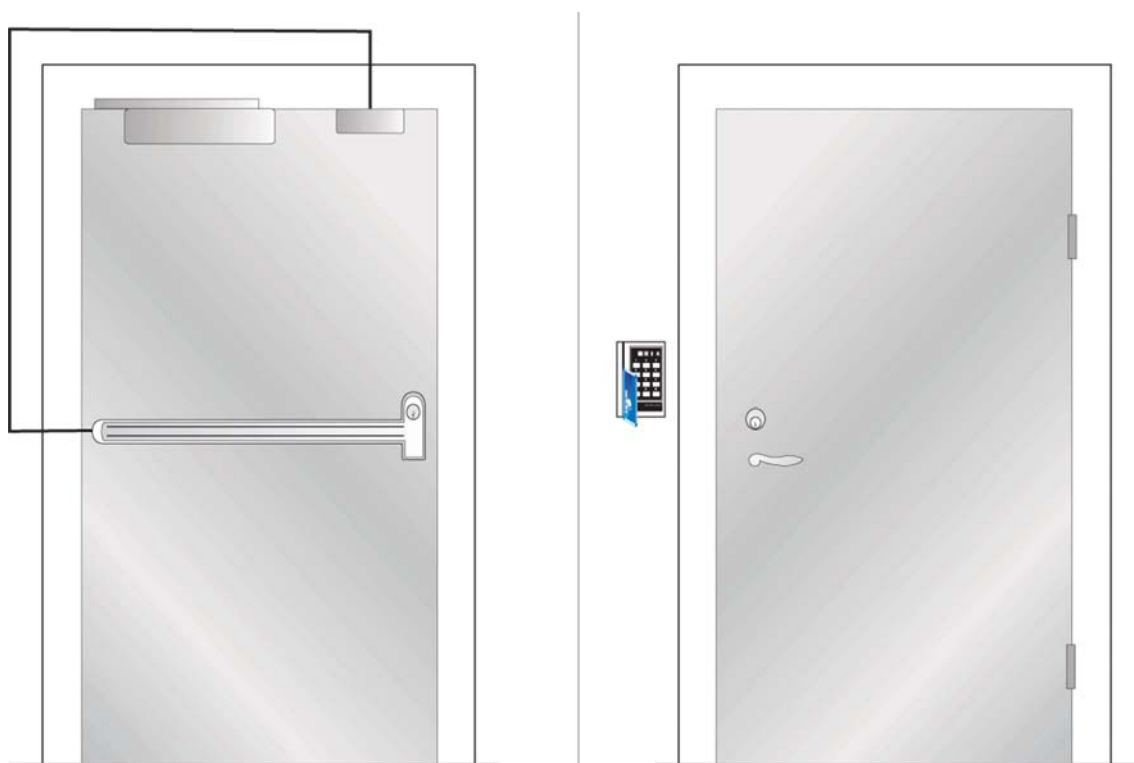
Option 2: See figure. Lever handle secures return.

Option of authorised passage via pulse generator/key.

Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



Option 2 of 2

1.9 DOOR P 4, Single door with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Panic bolt.
Electric striking plate.
Pulse generator, e.g. card reader.
Door closer.

Functions on the inside

Panic bolt secures exit.
Option of authorised passage via pulse generator.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

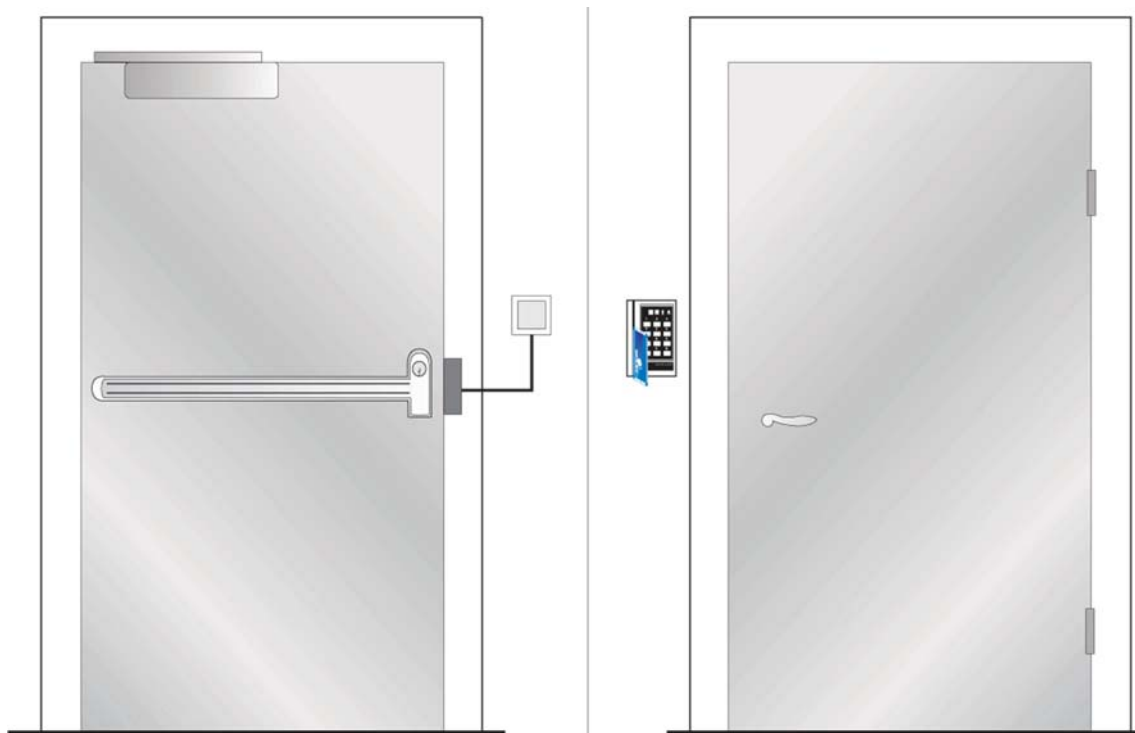
Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

Lever handle secures return.
Option of authorised passage via pulse generator.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



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1.10 DOOR P 5, Single fire door

Fittings on the inside

Panic bolt with electrical opening.

Pulse generator, e.g. card reader.

Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Panic bolt secures exit.

Option of authorised passage via pulse generator.

Fittings on the outside

Pull handle.

Pulse generator, e.g. card reader.

Functions on the outside

No return.

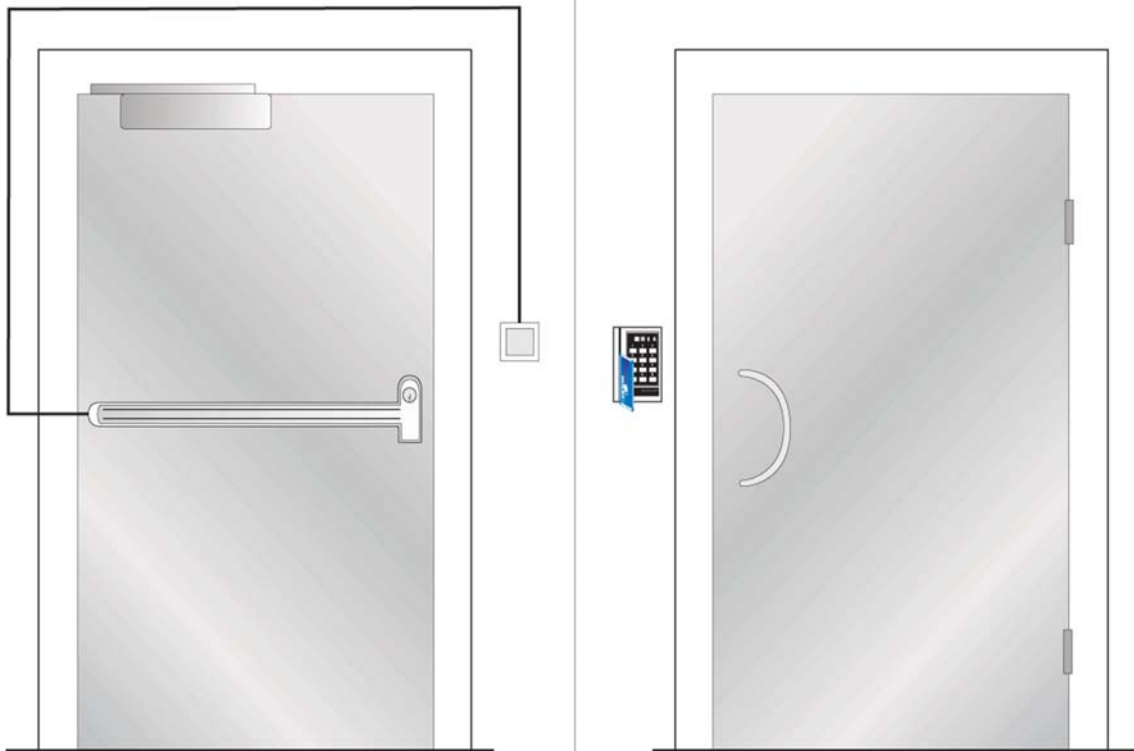
Option of authorised passage via pulse generator.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.

Note

The panic bolt shall not be electrically held open. It shall be electrically open only at the time of passage.



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1.11 DOOR P 6, Single fire door

Fittings on the inside

Panic bolt with electrical opening and micro switch.
Door holder magnet/electromechanical door bolt.
Pulse generator, e.g. card reader.
Door closer. Can be fitted with electromechanical hold-open device.

Functions on the inside

Panic bolt secures exit.
Micro switch secures opening of door holder magnet/electromechanical door bolt.
Option of authorised passage via pulse generator
Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

Fittings on the outside

Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

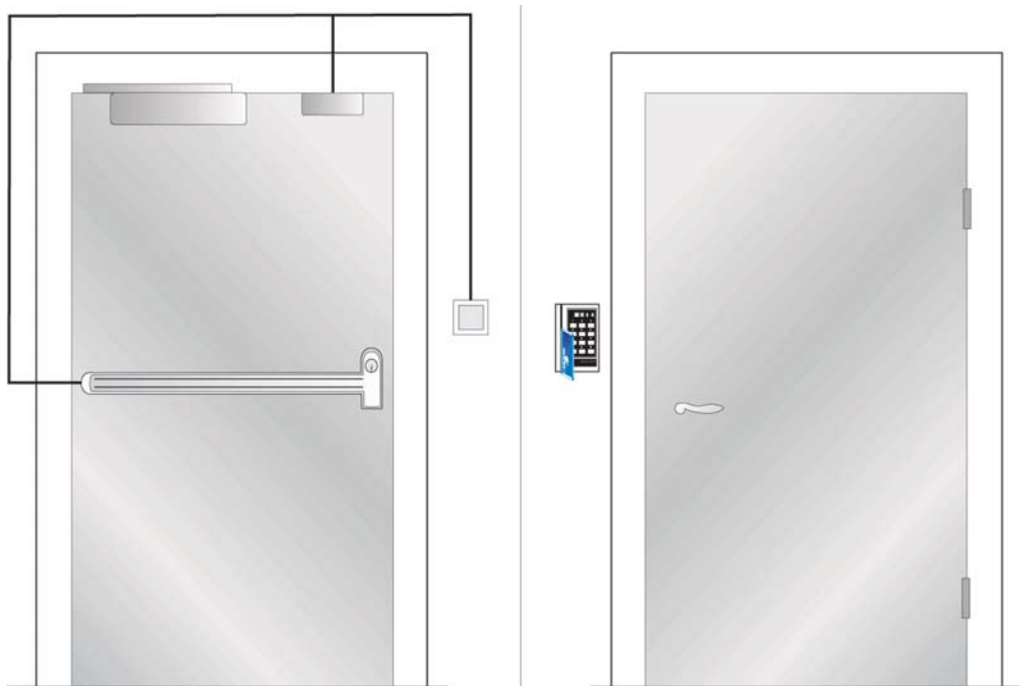
Lever handle secures return.
Option of authorised passage via pulse generator.
Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.

Note

The panic bolt shall not be electrically held open. It shall be electrically open only at the time of passage.
Can be fitted with door automatics.



1.12 DOOR NP 1, Pair of fire doors

Fittings on the inside

Emergency exit devices, active leaf.

Automatic flush bolts, inactive leaf.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Exit handle, operated with one hand, secures exit via active leaf.

Option of authorised passage via key.

Door closer with coordinator closes the leaves in the right order.

Fittings on the outside

Lever handle.

Functions on the outside

Lever handle secures return.

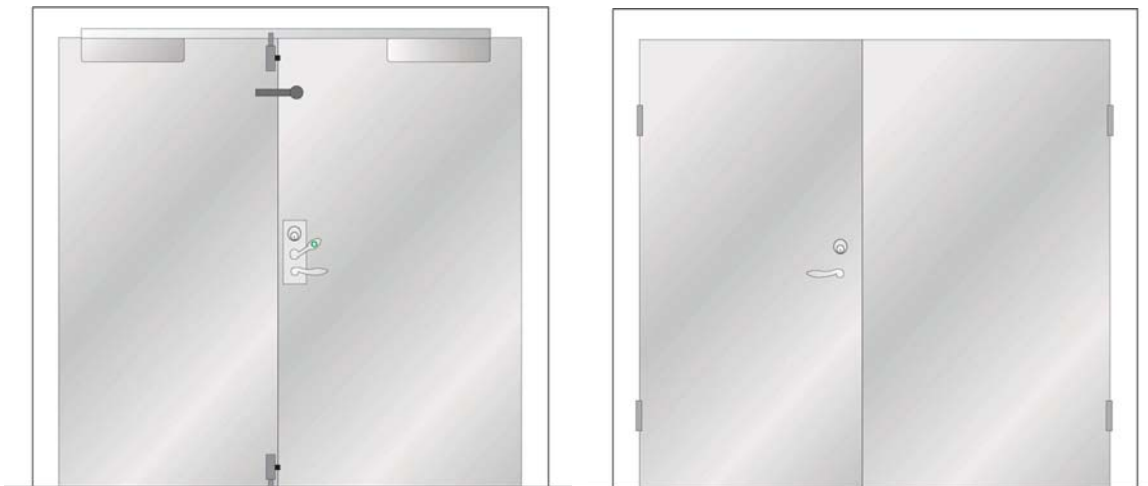
Option of authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.

Note

The inactive leaf shall not form part of the escape route.



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1.13 DOOR NP 2, Pair of doors with no fire separating function

Fittings on the inside

Emergency exit button.

Option 1: See figure. Doors rebated at the top fitted with door closer and coordinator, as well as door holder magnet/electromechanical door bolt with standby power.

Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Option 2: Doors not rebated at the top fitted with door closer and double door holder magnets/electromechanical door bolts with standby power. Coordinator not required. Can be fitted with electromechanical hold-open device.

Functions on the inside

Exit via emergency exit button.

Option of authorised passage via key switch.

Door closer with coordinator closes the leaves in the right order.

Option of automatic unlocking via fire alarm. (Not as the only function).

Fittings on the outside

Pull handle.

Pulse generator, e.g. card reader.

Functions on the outside

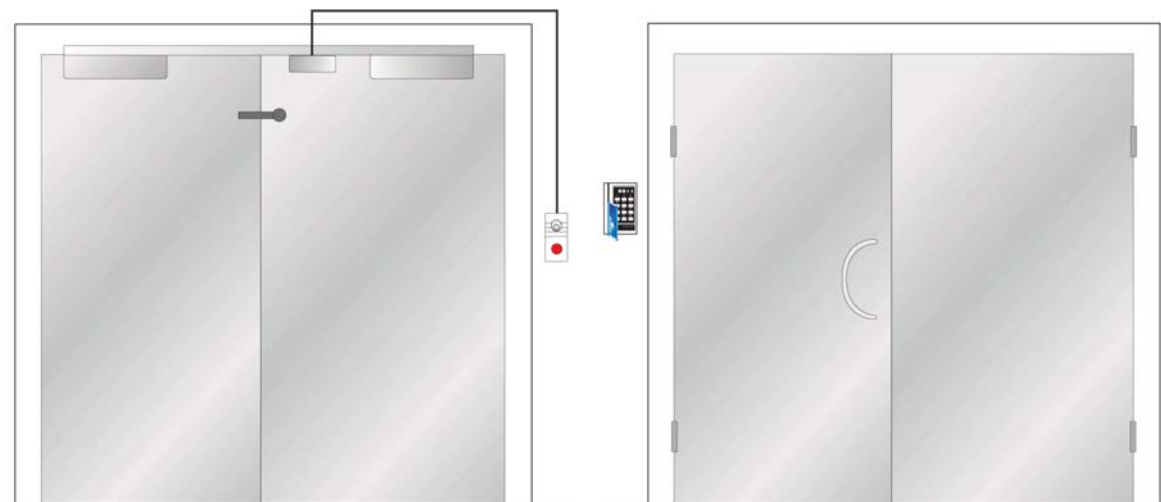
Return via pull handle after exit or activation of fire alarm.

Option of authorised passage via pulse generator.

Option of automatic unlocking via fire alarm. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity.



Option 1 of 2

1.14 DOOR NP 3, Pair of doors with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Emergency exit device.
Electric striking plate in inactive leaf.
Pulse generator, e.g. card reader.
Automatic flush bolts in inactive leaf.
Door closer with coordinator.
Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Exit handle secures exit via active leaf.
Option of authorised passage via pulse generator/key.
Door closer with coordinator closes the leaves in the right order.
Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

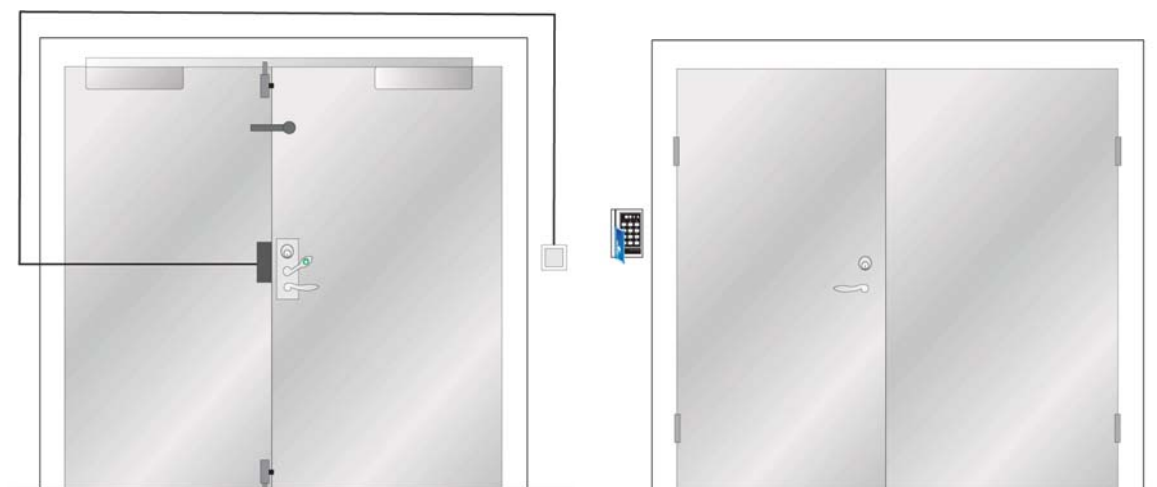
Lever handle secures return.
Option of authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Inactive leaf shall not form part of the escape route.



1.15 DOOR NP 4, Pair of fire doors

Fittings on the inside

Emergency exit devices, as push pad.

Door closer. Can be fitted with electromechanical hold-open device.

Automatic flush bolts, inactive leaf.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Push pad secures exit via active leaf.

Option of authorised passage via key.

Door closer with coordinator closes the leaves in the right order.

Fittings on the outside

Option 1: See figure. Plain outside face.

Option 2: Cylinder + pull handle.

Functions on the outside

Option 1: See figure. No return.

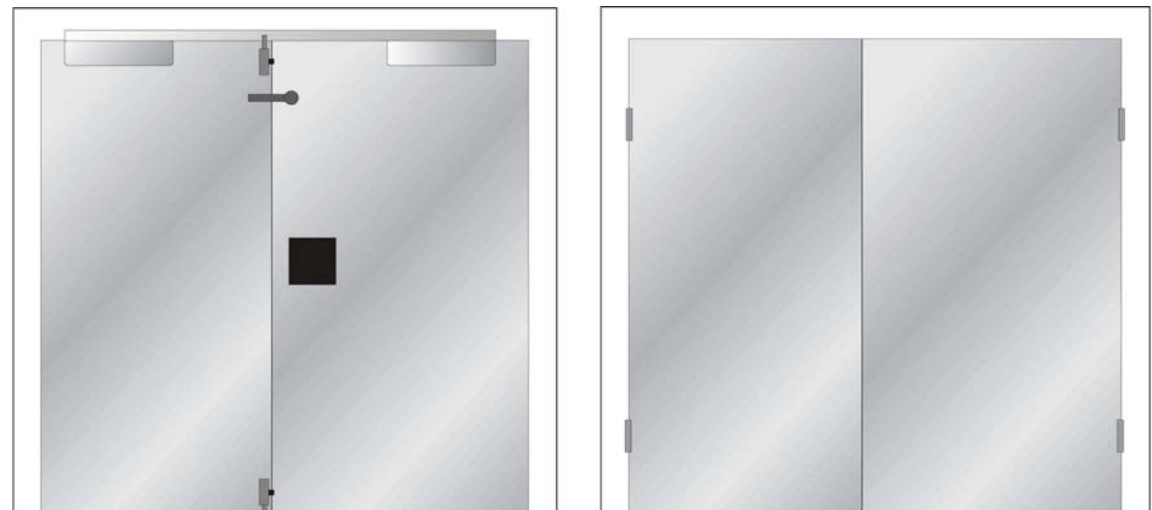
Option 2: No return but authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Inactive leaf shall not form part of the escape route.



1.16 DOOR NP 5, Pair of doors with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Emergency exit device, as push pad
Electric striking plate in inactive leaf.
Pulse generator, e.g. card reader.
Automatic flush bolts in inactive leaf.
Door closer with coordinator.
Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

The push pad secures exit via active leaf.
Option of authorised passage via pulse generator/key.
Door closer with coordinator closes the leaves in the right order.
Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

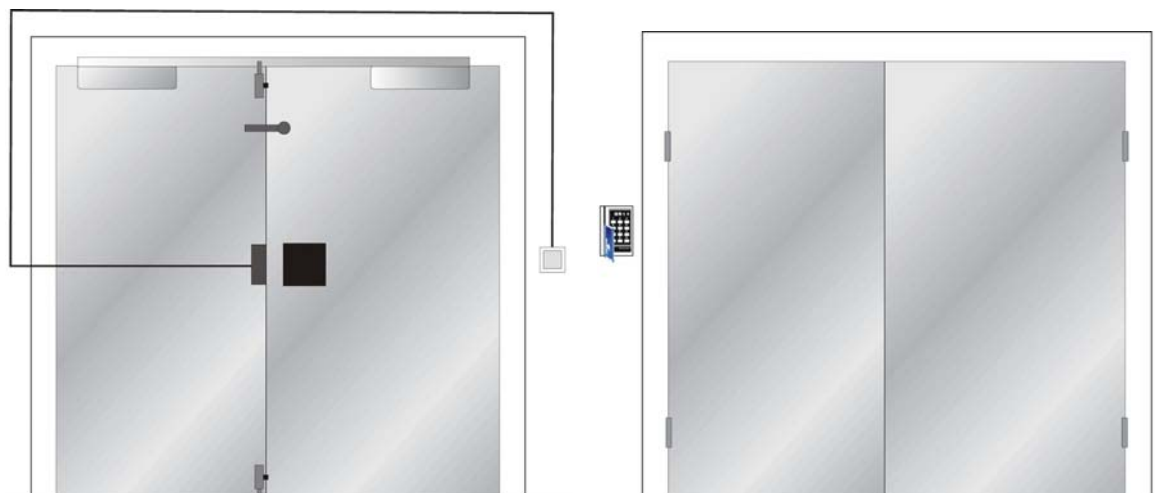
No return but authorised passage via pulse generator/key.
Option of automatic unlocking via fire alarm, with fire separating function retained depending on choice of electric striking plate.

Extra lock

When intruder protection locking is needed, this can be connected to the function essential for the activity.

Note

Inactive leaf shall not form part of the escape route.



1.17 DOOR PP 1, Pair of fire doors

Fittings on the inside

Panic bolts.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolt secures exit.

Option of authorised passage via key.

Door closer with coordinator closes the leaves in the right order.

Fittings on the outside

Lever handle.

Functions on the outside

No return.

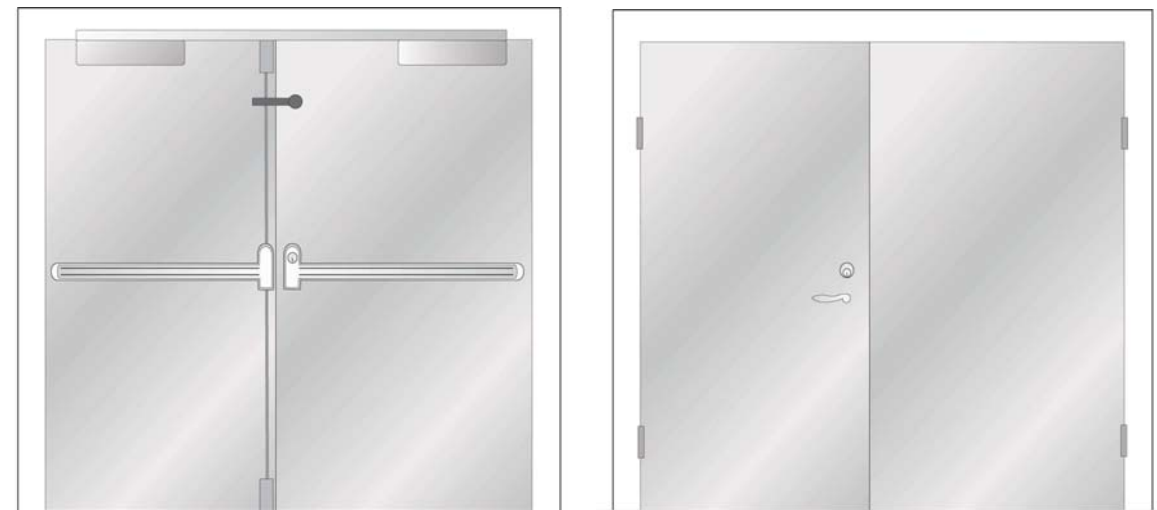
Option of authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm.



1.18 DOOR PP 2, Pair of fire doors

Fittings on the inside

Panic bolts.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolt secures exit.

Option of authorised passage via key.

Door closer with coordinator closes the leaves in the right order.

Fittings on the outside

Option 1: See figure. Plain outside face.

Option 2: Cylinder + pull handle.

Functions on the outside

Option 1: See figure. No return.

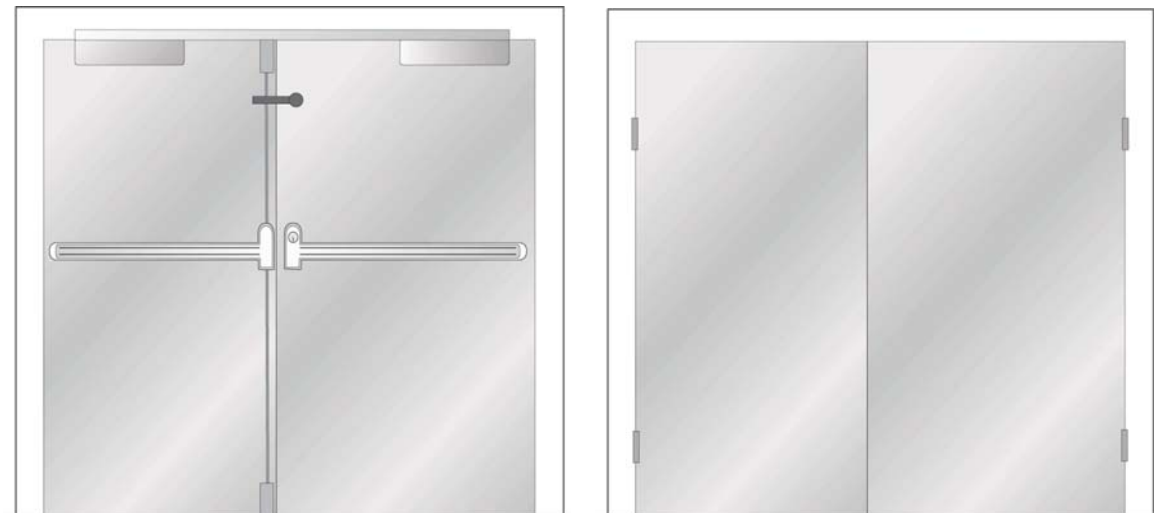
Option 2: No return but authorised passage via key.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm.



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1.19 DOOR PP 3, Pair of fire doors

Fittings on the inside

Panic bolts with micro switches.

Door holder magnet/electromechanical door bolt in active leaf.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolts secure exit.

Micro switches secure opening of door holder magnet/electromechanical door bolt.

Door closer with coordinator closes the leaves in the right order.

Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

Option 1: Lever handle.

Option 2: See figure. Lever handle + pulse generator, e.g. card reader.

Functions on the outside

Option 1: Lever handle secures return.

Option 2: See figure. Lever handle secures return.

Option of authorised passage via pulse generator/key.

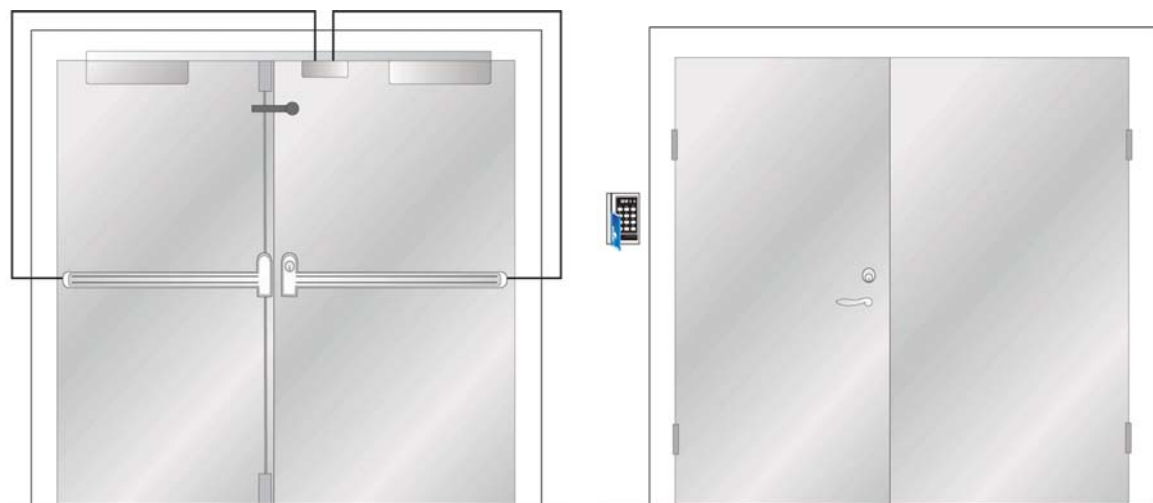
Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm.



Option 2 of 2

1.20 DOOR PP 4, Pair of doors with/without fire separating function depending on choice of electric striking plate

Fittings on the inside

Panic bolts with micro switches.
Electric striking plate in inactive leaf.
Pulse generator, e.g. card reader.
Door closer with coordinator.
Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolts secure exit.
Option of authorised passage via pulse generator.
Door closer with coordinator closes the leaves in the right order.
Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

Lever handle.
Pulse generator, e.g. card reader.

Functions on the outside

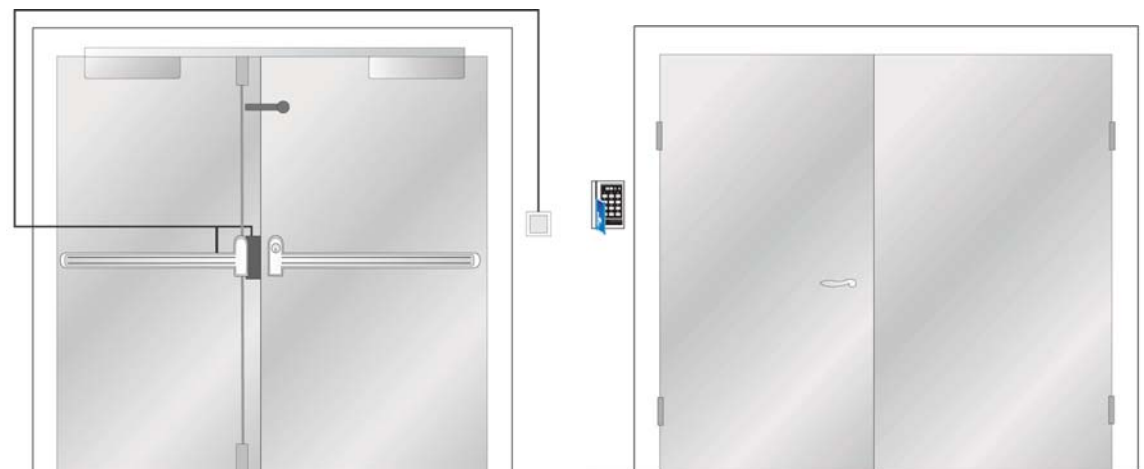
Lever handle secures return. (Depending on choice of electric striking plate).
Option of authorised passage via pulse generator.
Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate . (Not as the only function).

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm.



1.21 DOOR PP 5, Pair of fire doors

Fittings on the inside

Panic bolts with electrical opening.

Pulse generator, e.g. card reader.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolts secure exit.

Option of authorised passage via pulse generator.

Door closer with coordinator closes the leaves in the right order.

Fittings on the outside

Pull handle.

Pulse generator, e.g. card reader.

Functions on the outside

No return.

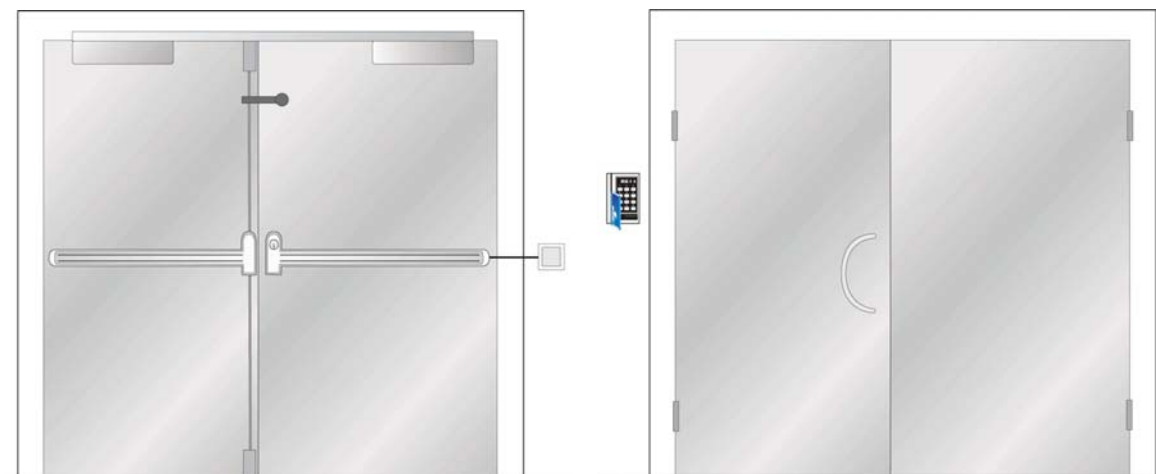
Option of authorised passage via pulse generator.

Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm.
Panic bolt shall not be electrically held open. It shall be electrically open only at the time of passage.



1.22 DOOR PP 6, Pair of fire doors

Fittings on the inside

Panic bolts with electrical opening and micro switches.

Door holder magnet/electromechanical door bolt in active leaf.

Pulse generator, e.g. card reader.

Door closer with coordinator. Can be fitted with electromechanical hold-open device.

Inactive leaf fitted with tailpiece for the door coordinator function.

Functions on the inside

Panic bolts secure exit.

Micro switch secures opening of door holder magnet/electromechanical door bolt.

Option of authorised passage via pulse generator.

Door closer with coordinator closes the leaves in the right order.

Option of automatic unlocking via fire alarm, with fire separating function retained, depending on choice of electric striking plate. (Not as the only function).

Fittings on the outside

Lever handle.

Pulse generator, e.g. card reader.

Functions on the outside

Lever handle secures return.

Option of authorised passage via pulse generator.

Option of automatic unlocking via fire alarm, with fire separating function retained. (Not as the only function).

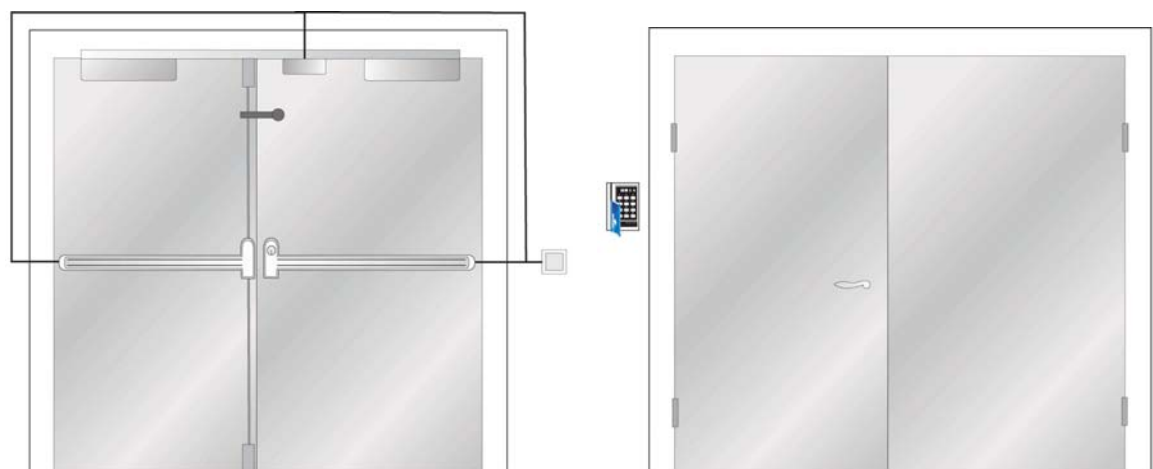
Extra lock

When intruder protection locking is needed, this shall be connected to the function essential for the activity

Note

Where the inactive leaf forms part of the escape route, its width shall not be less than 500 mm. Panic bolt shall not be electrically held open. It shall be electrically open only at the time of passage.

Can be fitted with door automatics.



2 EXAMPLES OF OPERATING AND MAINTENANCE INSTRUCTIONS

These instructions are to be seen as an example. The responsible person in the firm shall decide whether they shall be used, and appoint a suitable person to implement them. This is to be regarded as part of the internal systematic fire protection work.

These instructions comprise the following parts:

- Purpose of door function
- Function – the way the door operates
- Test method
- Test intervals

This Appendix contains the following examples:

- Door in and to escape route
- Door in fire compartment boundary
- Door in fire compartment boundary with door closer
- Door in fire compartment boundary with electromechanical closing device

2.1 Door in and to escape route

Purpose:

A door that is mounted in an escape route shall not hinder exit.

- it shall be kept free of objects which block the exit, flowers, chairs, rubbish or other obstacles.
- it shall be easy to open in the exit direction without a key.

A door can also be mounted to prevent the spread of fire.

- it shall be fitted with a door closer which always closes the door.
- it shall be undamaged and shall close so that there are no major gaps.
- the closing device of the door shall engage with the **striking plate** in the door frame when the door is closed and shall not have a hold-open function.
- no wooden wedges or similar devices shall be used to keep the door open.

Function: (The way the door operates)

The door shall open outwards.

It shall be easy to open the door by actuating the exit device.

If the door is positioned in the fire compartment boundary, it shall after passage be closed automatically via the door closer. The term closed door implies that the dead bolt engages with the striking plate.

Pairs of doors in the fire compartment boundary shall be fitted with closing coordinator and tailpiece.

The door may be electromechanically held open in such a way that it is released on receiving alarm from a smoke detector.

Test method:

Check that the door can be opened without a key, code, card or other code carrier, and that it can be opened at least 90°.

A door fitted with a door closer shall be opened ca 10 cm and shall close fully and the dead bolt shall engage with the striking plate when the door is released.

A check that the door is closed can be made by pulling it without depressing the lever handle/ hand hold; the door shall remain in the closed position.

When the door is opened, make a visual inspection of hinges, locks, lever handle, frame, attachment of panes of glass, if any, other damage, marks, the function of the lever handle, etc.

Pairs of doors with a closing coordinator shall be opened via the inactive leaf to 90°, and a check made that the leaves close in the right order.

Doors that are electromechanically held open shall be tested by switching off the power, e.g. through a test button.

Test intervals:

At least every three months.

Note that, in addition to this, it may be necessary to inspect function daily, a check being made of at least the opening function and accessibility.

2.2 Door in fire compartment boundary

Purpose:

To prevent the spread of fire and products of combustion via the door opening in the fire compartment boundary.

Function: (The way the door operates)

The door is normally closed and is again closed manually after it has been opened.

Test method:

Close the door.

- The door shall close fully.
- The bolt of the lock shall engage with the striking plate.
- The door shall be undamaged and shall close so that there are no gaps. In certain cases there are exceptions in contact with the doorstep.
- When the door is opened, make a visual inspection of hinges, locks, lever handle, frame, attachment of panes of glass, if any, other damage, marks, the function of the lever handle, etc.

Test intervals:

At least every three months.

2.3 Door in fire compartment boundary with door closer

Purpose:

To prevent the spread of fire and products of combustion via the door opening in the fire compartment boundary.

Function (The way the door operates)

The door is normally closed, and again closes automatically after it has been opened.

Test method:

A door fitted with a door closer shall be opened ca 10 cm and shall close fully, and the bolt of the lock shall engage with the striking plate when the door is released.

- The door closer shall be able to close the door fully. A check that the door is closed can be made by pulling it without depressing the lever handle/ hand hold; the door shall remain in the closed position.
- The bolt of the lock shall engage with the striking plate.
- When the door is opened, make a visual inspection of hinges, locks, lever handle, frame, attachment of panes of glass, if any, other damage, marks, the function of the lever handle, etc.
- The door shall be undamaged and shall close so that there are no gaps. In certain cases there are exceptions in contact with the doorstep.

Test intervals:

At least every three months.

2.4 Door in fire compartment boundary with electromechanical closing device

Purpose:

To prevent the spread of fire and products of combustion via the door opening in the fire compartment boundary.

Function: (The way the door operates)

The door closes when the detector senses smoke. The detector can either be fitted separately on each side of the door, or it may be integral with the door closer device.

Test method:

Test A: Press the test button for closure or some other test device.

Test B: Apply test gas to the smoke detector (not required if the detectors form part of the fire alarm installation).

- The door closer shall be able to close the door fully. A check that the door is closed can be made by pulling it without depressing the lever handle/hand hold; the door shall remain in the closed position.
- The bolt of the lock shall engage with the striking plate.
- When the door is opened, make a visual inspection of hinges, locks, lever handle, frame, attachment of panes of glass, if any, other damage, marks, the function of the lever handle, etc.
- The door shall be undamaged and shall close so that there are no gaps. In certain cases there are exceptions in contact with the doorstep.

Test intervals:

At least every three months.