Escape Hardware/by John Planck

JOHN PLANCK Ltd
architectural hardware

Escape Hardware

The correct specification of escape hardware is a critical part of a building's design as it involves 'life safety'.

Clause 6.11 of The Building Regulations, Approved Document B, states the following:

'Doors on escape routes (whether or not the doors are fire doors), should either not be fitted with lock, latch or bolt fastenings, or they should only be fitted with simple fastenings that can be readily operated from the side approached by people making an escape. The operation of these fastenings should be readily apparent and without the use of a key and without having to manipulate more than one mechanism.'

The following pages show a selection of products that meet the above criteria.

Information

Panic Exit Hardware BS EN 1125
Products that are classified as panic exit hardware offer a single operation of a push bar or touch bar to release the device. These are certified to EN 1125 and can be used on premises that do not require prior knowledge of its operation and where panic situations are foreseen, such as places of entertainment, public buildings and areas open to the public.

Emergency Exit Hardware BS EN 179
Products that are classified as emergency exit hardware offer a single operation of a lever or push pad to release the device. These are certified to EN 179 and can be used on premises that require prior knowledge of its operation and where panic situations are not foreseen, such as offices and areas that are not open to the public.

Actuator Unit
The actuator unit connects the panic or emergency exit hardware to a mortice night latch. When used with a micro switch, the actuator unit can be connected to an electrical circuit to operate products such as an electro-magnetic Lock.

Adjustable Shoots
To overcome the problem of bolts not fully engaging in the keeps due to the door or frame moving after a period of time, adjustable shoots are available on panic bolts.

Anti-thrust
A device built into a unit to prevent either a bolt or latch from being forced back when in the closed position, thus increasing the level of security.

Automatic Top Trip
Device used to hold the bolts in the withdrawn position when the door is open. When the door is closed, the automatic top trip releases the bolts to secure the door.

Dogging Facility
A feature built into some exit devices that allows the bolts or latches to be retained in the withdrawn position, when desired. Also available as a separate device for use with some panic bolts with vertical rods.

Mechanism Unit
This is the main unit that controls the travel of the bolts and latches.

Micro Switch
For situations that require the panic hardware to be linked to a monitoring or alarm system a micro switch can be fitted in the slave unit. The micro switch closes an electrical circuit when the cross bar is operated.

Outside Access Device
Knob or lever handle operated, it provides external key override to enable entry from the outside. The key will engage or disengage the knob or lever handle allowing the door to be accessible from the outside without use of a key, when desired. Digital keypad versions are also available.

Pullman Latch
A latch mechanism built into exit devices in lieu of a bolt mechanism to allow easy latching of an escape door. This option is often preferred in areas of high traffic or when self closing devices are used.

Push Bar
A horizontal bar projecting from the door face that, when pushed in a downward motion, will trigger the latching/bolting mechanism

Slave Unit
The slave unit supports the cross bar on any panic hardware.

Touch Bar
A horizontal bar affixed to the door face that, when pressed at any point across its length, will trigger the latching mechanism.

Finishes

BMA	Bronze Metal Antique	**PBZ**	Polished Bronze	**SSS**	Satin Stainless Steel
EPC	Epoxy Powder Coated	**PCP**	Polished Chrome Plated*	**SSSP**	Satin Stainless Steel Plated*
GE	Gold Enamelled	**PSS**	Polished Stainless Steel	* Not recommended for external use	
PB	Polished Brass	**PSSP**	Polished Stainless Steel Plated*	or in other harsh environments.	
PBP	Polished Brass Plated*	**SE**	Silver Enamelled		

Specification Notes

Standards & Certifications:
Every new build or replacement panic and emergency exit application is required to comply with European safety legislation, BS EN 1125 & BS EN 179

BS EN179: 2008:
For push pad and lever handle devices which can only be used in areas where occupants of the building are familiar with the layout and means of escape, and where members of the public do not have access.
Application examples: factory, warehouse, offices.

BS EN1125: 2008:
For push bar and touch bar devices which can be used in any situation, particularly areas open to members of the public.
Application examples: shopping centres, public buildings, cinemas.

Finishes:
Certain applied finishes are not suitable for external use or other harsh environments. Please refer to our technical department.

Standard Sizes:
Standard sized units are suitable for doors up to 2440mm high and 1220mm wide. Special sizes are available on request.

Fixing / Installation
Installation instructions are supplied with all panic and emergency exit hardware. In order to meet the CEN European standards the door and frame should be of good quality and suitable to support the hardware. Make sure that any weather strips or fixings on the door or frame do not interfere with the opening and closing of the door.

Maintenance
It is important that all 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.

BS EN 1125 Compliant Solutions for Panic Situations	Pages 3 - 8
BS EN 1125 Compliant Solutions for Severe Duty Panic Situations	Page 9
BS EN 179 Compliant Solutions for Emergency Situations	Pages 10 - 11
BS EN 179 Compliant Solutions for Severe Duty Emergency Situations	Page 12
Outside Access Devices	Pages 13 - 15
Miscellaneous Accessories	Pages 15 - 17

EM5018
Heavy duty touchbar dead locking panic latch
To suit doors up to 1220mm wide.

Options:
/CD Cylinder dogging.
/ES Electric latchbolt retraction.
/MS Monitor switch.
/LM Latch monitor.
/LOD Lever outside access device.
/KOD Knob outside access device.

SSS PCP PB BMA

EM5019
Heavy duty touchbar 2 point dead locking panic bolt with vertical pullman latches
To suit doors up to 2430 x 1220mm wide.

Options:
/CD Cylinder dogging.
/ES Electric latchbolt retraction.
/ETR Extended rods for doors up to 3050mm high.
/MS Monitor switch.
/LM Latch monitor.
/LOD Lever outside access device.
/KOD Knob outside access device.

SSS PCP PB BMA

EM5018/EM5019/TGD
Conversion kit for toughened glass doors
To suit glass thicknesses of 10/12mm.

SSS

EM5005

Touchbar dead locking panic latch

/A to suit single doors up to 900mm wide.
/B to suit single doors up to 1200mm wide.
(Other sizes are available upon request)

79mm (bar) P 61mm

Options:

/AL Integral Alarm.
/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5010

Touchbar panic mortice latch actuator with lock case (cylinder not included)

/A to suit single doors up to 900mm wide.
/B to suit single doors up to 1200mm wide.
(Other sizes are available upon request)

79mm (bar) P 61mm

Options:

/AL Integral alarm.
/DF Dogging facility.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5006

Touchbar 2 point dead locking panic bolt with vertical pullman latches

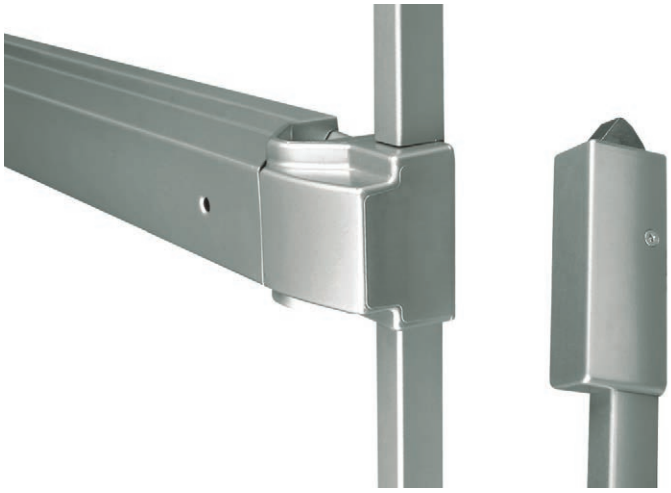
/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200.
(Other sizes are available upon request)

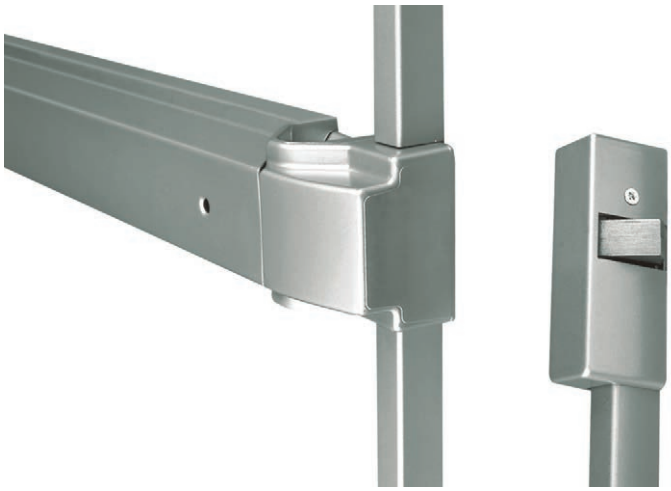
79mm (bar) P 61mm

Options:

/AL Integral alarm.
/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP





EM5007
Touchbar 2 point dead locking panic bolt with horizontal pullman latches
/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

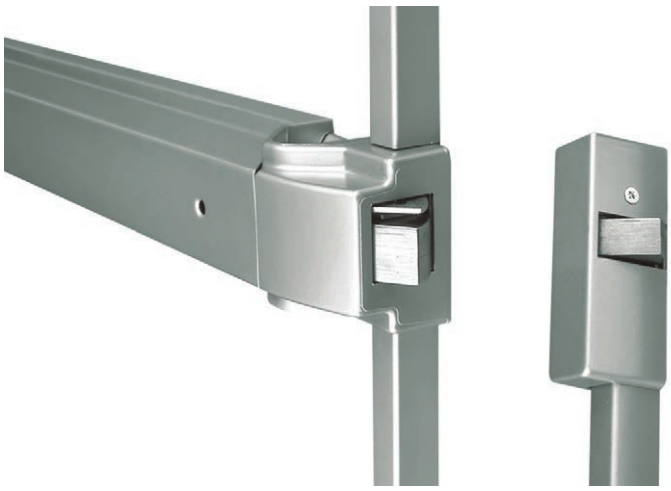
Options:
/AL Integral alarm.
/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5008
Touchbar 3 point dead locking panic bolt with vertical pullman latches
/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

Options:
/AL Integral alarm.
/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP



EM5009
Touchbar 3 point dead locking panic bolt with horizontal pullman latches
/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

Options:
/AL Integral alarm.
/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5101

Touchbar package

To suit pairs of doors with plain meeting stiles
Comprises: 2 No EM5006 Touchbar panic bolts.

/A to suit single doors up to 2440x900mm
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

Options:

/AL Integral alarm.

/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5102

Touchbar package

To suit pairs of doors with rebated meeting stiles
Comprises: 1 no EM5005 Touchbar panic latch,
1 no EM5006 Touchbar panic bolt
& 1 no EM---- Striker for Touchbar panic latch.

/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

Options:

/AL Integral alarm.

/DF Dogging facility.
/ES Electric latchbolt retraction.
/MS Microswitch.

SE GE EPC PBP SSSP PSSP

EM5103

Touchbar package

To suit pairs of doors with plain meeting stiles
Comprising: 1 no EM5010 Touchbar panic
mortice latch actuator with lock case (cylinder not
included) & 1 no EM5006 Touchbar panic bolt.

/A to suit single doors up to 2440x900mm.
/B to suit single doors up to 2440x1200mm.
(Other sizes are available upon request)

Options:

/AL Integral alarm.

/DF Dogging facility
/MS Microswitch.

12, 19, and 25mm latch rebate sets available.

SE GE EPC PBP SSSP PSSP

EM5000
Single bar operated panic bolt with standard top trip
To suit single doors up to 2440 x 1220mm.
(Other sizes are available upon request)

P 100mm

Options:
/AS Adjustable shoots.
/MS Microwitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

EM5003
Single bar operated panic bolt with pullman latches
/H Horizontal pullman latches.
/V Vertical pullman latches.

To suit single doors up to 2440 x 1220mm.
(Other sizes are available upon request)

P 100mm

Options:
/MS Microswitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

EM5001
Reversible panic latch
To suit single doors up to 1220mm wide.
(Other sizes are available upon request)

P 100mm

Options:
/MS Microswitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

EM5002
Reversible panic mortice latch actuator with lock case (cylinder not included)
To suit single doors up to 1220mm wide.
(Other sizes are available upon request)

P 100mm

Options:
/MS Microswitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5104
Push bar package
To suit pairs of doors with plain meeting stiles
Comprising: 2 no Single bar operated panic bolt with standard top trip.

To suit door leaves up to 2440 x 1220mm.
(Other sizes are available upon request)

P 100mm

Options:
/AS Adjustable shoots.
/MS Microswitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5105
Push bar package
To suit pairs of doors with rebated meeting stiles
Comprising: 1no Reversible panic latch, 1no Single bar operated panic bolt with standard top trip.
Box keeper for use with bar operated panic latch or push pad on double doors.

To suit door leaves up to 2440 x 1220mm.
(Other sizes are available upon request)

P 100mm

Options:
/AS Adjustable shoots.
/MS Microswitch.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5106
Severe duty two point single bar operated panic bolt with automatic top trip and anti-thrust bottom shoot
To suit single doors up to 2440 x 1220mm.
(Other sizes are available upon request)

Ⓟ 133mm

Options:
/SD Steel door fixings.
/MS Microswitch.
/LB Mechanical locking box (handed) with visual red/white indicator*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

EM5107
Severe duty three point single bar operated panic bolt with automatic top trip and anti-thrust bottom shoot
To suit single doors up to 2440 x 1220mm.
(Other sizes are available upon request)

Ⓟ 133mm

Options:
/SD Steel door fixings.
/MS Microswitch.
/LB Mechanical locking box (handed) with visual red/white indicator*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

EM5108
Severe duty four point single bar operated panic bolt with automatic top trip and anti-thrust bottom shoot
To suit single doors up to 2440 x 1220mm.
(Other sizes are available upon request)

Ⓟ 133mm

Options:
/SD Steel door fixings.
/MS Microswitch.
/LB Mechanical locking box (handed) with visual red/white indicator*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

EM5021
Single push pad operated panic bolt with standard top trip
To suit single doors up to 2440mm high.
(Other sizes are available upon request)

P 80mm

Options:
/AS Adjustable shoots.
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5024
Single push pad operated panic bolt with verticle pullman latches
To suit single doors up to 2440mm high.
(Other sizes are available upon request)

P 80mm

Options:
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5025
Single push pad operated panic bolt with horizontal pullman latches
To suit single doors up to 2440mm high.
(Other sizes are available upon request)

P 80mm

Options:
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CE certifire

EM5022
Reversible push pad panic latch
P 133mm

Options:
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

EM5023
Reversible push pad panic mortice latch actuator with lock case (cylinder not included)
P 133mm

Options:
/SD Steel door fixings.

SE GE EPC PBP SSSP PSSP

CM3058
Europrofile mortice escape sash lock case
Outside lever handle withdraws latchbolt only, inside lever handle retracts both latchbolt and deadbolt.
60mm backset.
Conforms to BSEN179 when used with specific accessories. Details available on application.

SSS PSS PB BMA

EM5109

Severe duty two point single handle operated panic bolt with automatic top trip and anti-thrust bottom shoot

To suit single doors up to 2440mm high.
(Other sizes are available upon request)

Ⓟ 123mm

Options:

/SD Steel door fixings.
/MS Microswitch.
/IN to suit inward opening doors.
/LB Mechanical locking box (handed) with visual red/white indicator*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

CE certifire

EM5110

Severe duty three point single handle operated panic bolt with automatic top trip and anti-thrust bottom shoot

To suit single doors up to 2440mm high
(Other sizes are available upon request)

Ⓟ 123mm

Options:

/SD Steel door fixings.
/MS Microswitch.
/IN to suit inward opening doors.
/LB Mechanical locking box (handed) with visual red/white indicator*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

CE certifire

EM5111

Severe duty four point single handle operated panic bolt with automatic top trip and anti-thrust bottom shoot.

To suit single doors up to 2440mm high.
(Other sizes are available upon request)

Ⓟ 123mm

Options:

/SD Steel door fixings
/MS Microswitch
/IN to suit inward opening doors
/LB Mechanical locking box (handed) with visual red/white indicator.*
*Requires euro-profile cylinder, specify separately.
When the locking box is locked, the CE marking of the product becomes invalid.

EPC SSSP SSS

CE certifire

EM5014

Lever handle operated outside access device for use with touchbar panic hardware

Only available with euro profile cylinder.

Options:

/EP c/w euro profile cylinder (NOT master keyed).
/OP c/w oval profile cylinder (NOT master keyed).
/EPMK to suit a master keyed euro profile cylinder.
/OPMK to suit a master keyed oval profile cylinder.
/TB T-bar knob operation.

(Master keyed cylinders to be specified separately)

SE GE EPC

EM5011

Knob handle operated outside access device for use with bar operated panic hardware and push pads with standard differ cylinder

58mm 100mm P 68mm

Also available keyed alike.

Not available master keyed.

SE GE EPC

EM5012

Knob handle and cylinder operated outside access device for use with push bar and push pad operated panic hardware

60mm 178mm P 70mm

Options:

/EP c/w euro profile cylinder (NOT master keyed).
/OP c/w oval profile cylinder (NOT master keyed).
/EPMK to take a master keyed euro profile cylinder.
/OPMK to take a master keyed oval profile cylinder.
/L/EP lever handle version c/w euro profile cylinder (NOT Master keyed).
/L/EPMK lever handle version to take a master keyed euro profile cylinder.

(Master keyed cylinders to be specified separately)

SE GE EPC

EM5112
Knob handle and cylinder operated outside access device
For use with severe duty bar and lever handle operated panic hardware.

Options:
/EP c/w euro profile cylinder (NOT master keyed).
/EPMK to take a master keyed euro profile cylinder.
(Master keyed cylinders to be specified separately)

EPC SSSP SSS

EM5113
Outside access device with lever handle
For use with severe duty bar and lever handle operated panic hardware.

Options:
/EP c/w euro profile cylinder (NOT master keyed).
/EPMK to take a master keyed euro profile cylinder.
(Master keyed cylinders to be specified separately)

EPC SSSP SSS

EM5114
Mechanical digital keypad outside access device for use with push bar and push pad operated panic hardware
Works with most exit devices that have an 8mm square follower.

Options:
/PF Passage function.
/QC Quick code change (code can be changed without removing the unit).
/QCPF Quick code change unit with passage function.

SSS PB

EM5117

Electronic digital keypad outside access device for use with push bar and push pad operated panic hardware

Works with most exit devices that have an 8mm square follower.

Door thicknesses 35mm to 65mm.

Up to 80 user codes.

Up to 10 one-time user codes.

Over 200,000 operations from 4 x AA batteries (supplied).

Tamper time out and low battery warning.

Code free function and key override.

On door programming via master codes.

SSS PB

EM5015

Dogging device

For use with push bar and push pad operated panic bolts.

Enables the bolts to be held in the withdrawn position.

SE GE EPC

EM5026

Alarm

Battery operated for use with push bar and push pad operated panic bolts.

Emits an audible warning when panic bolt is operated or when an attempt is made to remove the cover.

Powered by PP3 9v battery.

SE GE EPC

EM5116
Microswitched pushbar
Length 840mm

For use as part of an access control system.

Touch sensitive version also available.

SAA EPC

EM5115
Egress Alarm

Incorporating a high powered adjustable sounder, keypad or keyswitch control, door open too long delay (DOTL), timed reset and alarm.

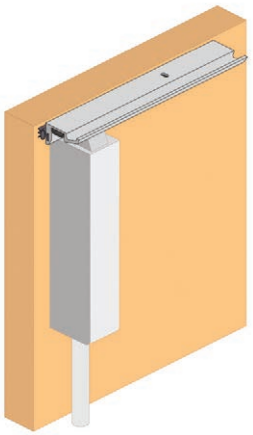
Available battery or mains powered.

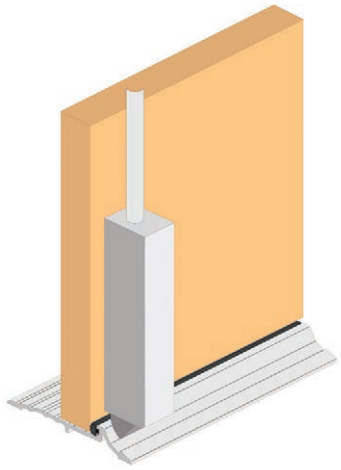
EM5118
Weather proof header seal

For outward opening doors with pullman catch panic exit devices.

Seal lengths: 1000mm, 2000mm

SAA

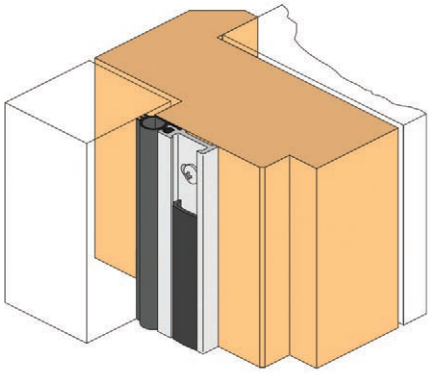




EM5119
Weather proof threshold plate seal
For outward opening doors with pullman catch panic exit devices

Seal lengths: 1000mm, 2000mm

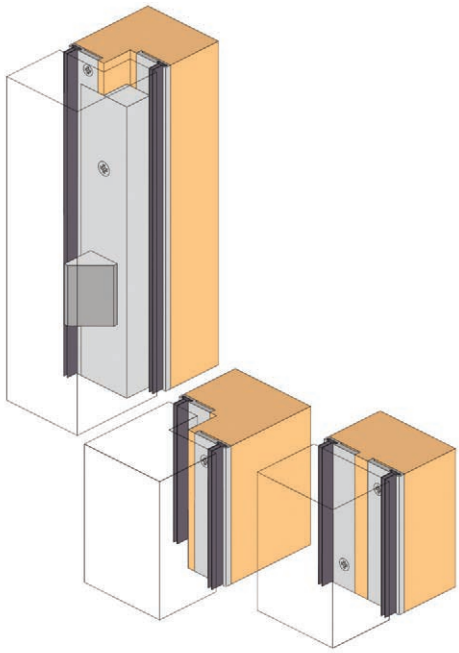
SAA



EM5120
Weather proof side frame seal
For outward opening doors.

Seal length: 2500mm

SAA



EM5121
Weather proof centre door seal
For pairs of plain or rebated outward opening doors.

Seal length: 2500mm

SAA

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