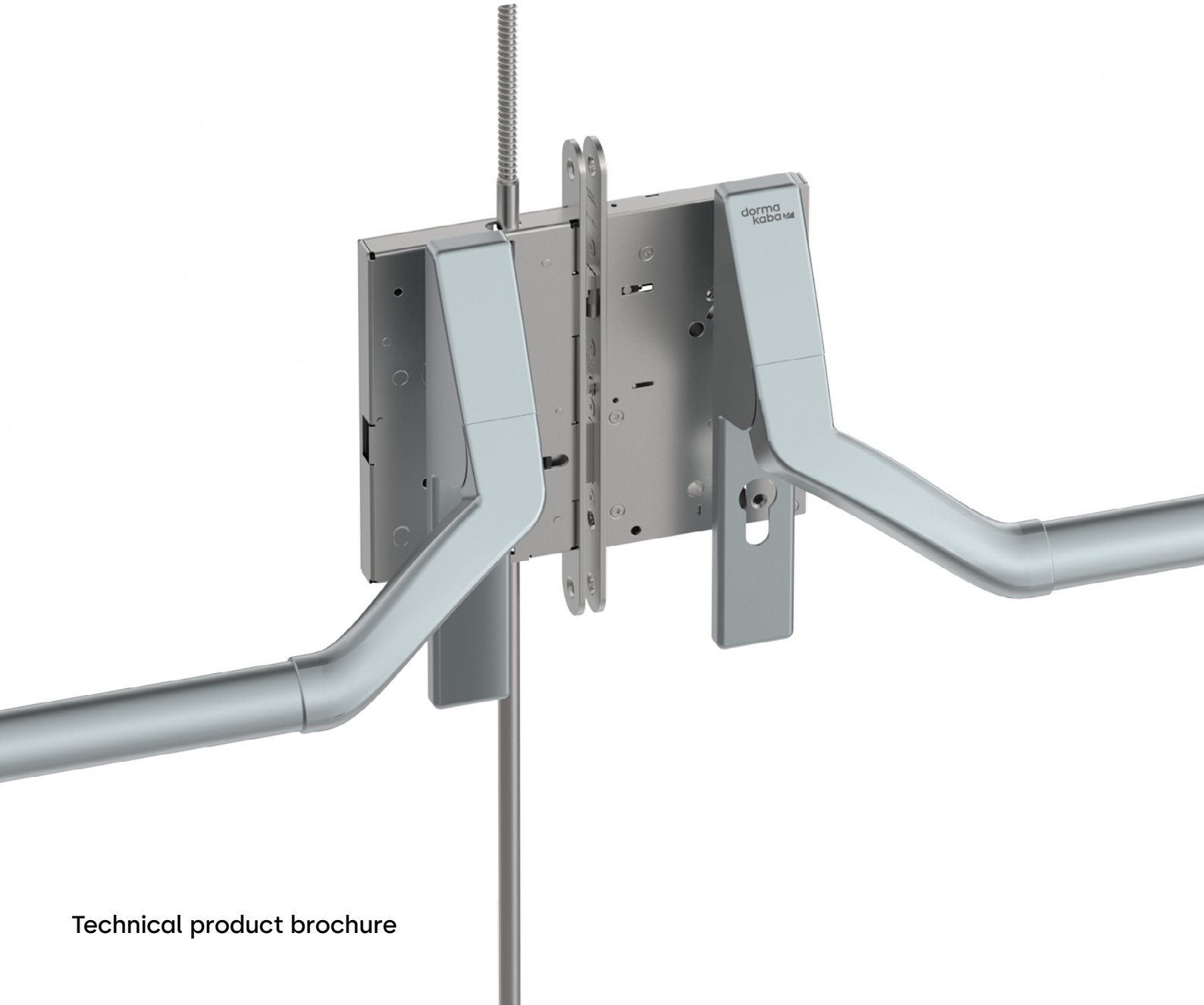
dormakaba

PHA 2500

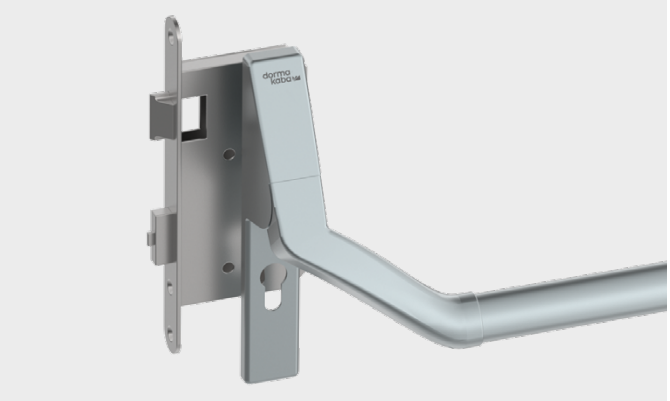
Panic hardware for timber doors



Technical product brochure

PHA 2500 Panic Hardware system

A suitable solution for every demand: Fitting system for single- and double-leaf timber doors in escape routes

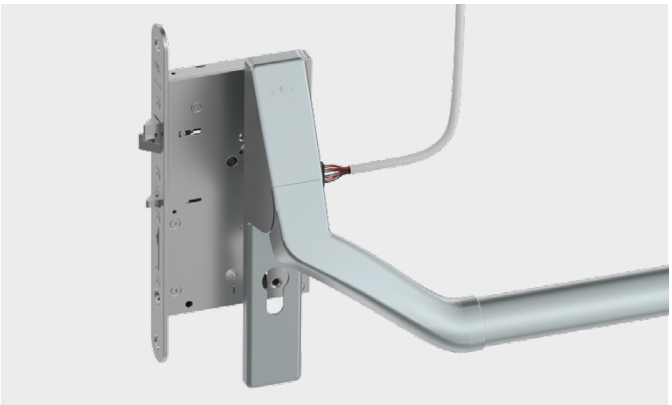


Easy and safe compliance with the regulatory requirements of EN 1125: Complete packages comprising panic fitting and mechanical lock variants E, D, B

- Coordinated components as complete packages
- Function E (transmission function): panic exit function inside, key operation required outside
- Function D (transit function): door can be permanently unlocked
- Function B (change-over function): panic exit function inside, lever operation on release outside
- Variants for 1-leaf and 2-leaf door systems

For more information, see chapter "Complete packages PHA 2500 Panic Hardware System" from page 4.

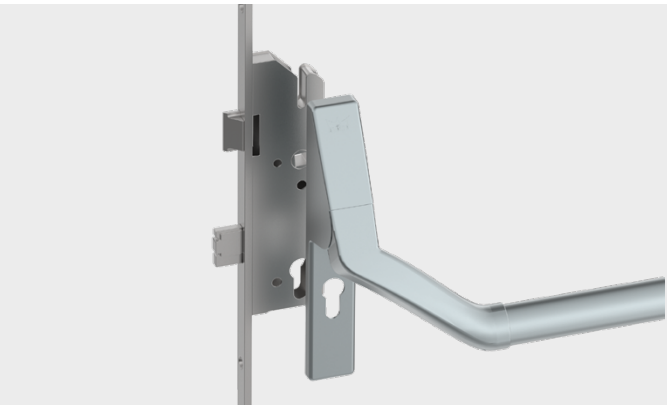
F Approval certification
The panic exit devices in the PHA 2500 series are tested and certified to EN 1125. All products comply with the requirements of Annex ZA to EN 1125 and thus qualify to carry the CE mark of conformity. Additional approval certification of the relevant fire and smoke doors may be necessary – check local regulations.



For more complex access requirements: Self-locking, mechanical, electronic or motorised lock and panic fitting

- Individual configuration of coordinated components
- Mechanical panic mortise locks for standard escape routes
- Electronic panic mortise locks for monitoring or electronic control in combination with an access control system
- Motorised locks, where automated locking and unlocking is required, e.g. for automatic doors
- One PHA 2500 panic fitting and a SVP lock are required for 1-leaf door systems
- Two PHA 2500 panic fittings and a combination of SVA lock for the active leaf and SVI lock for the inactive leaf are required for 2-leaf door systems

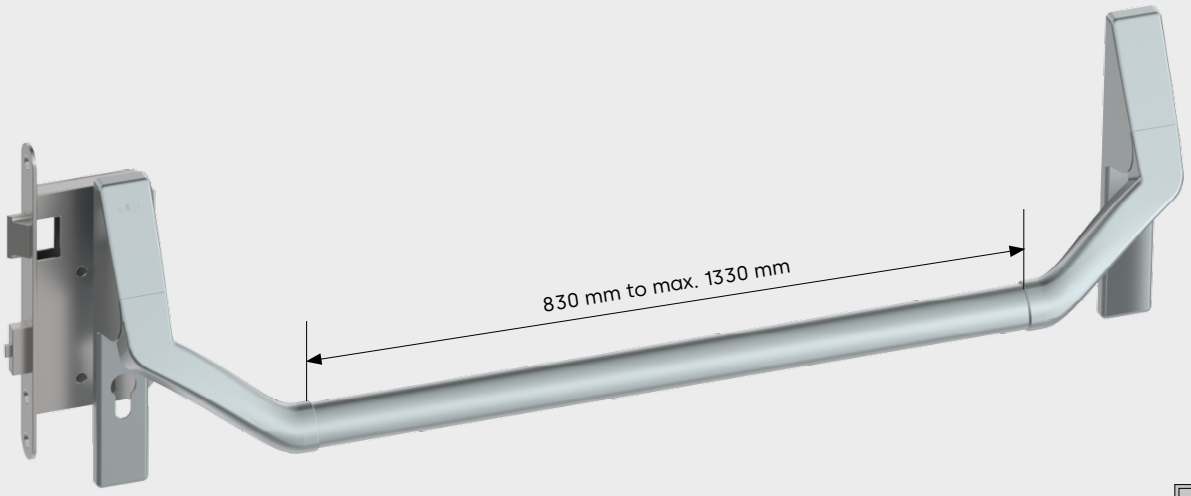
For more information, see chapter “Individual configuration” from page 19.



For maximum safety requirements: Multi-point locking system and panic fitting

- Individual configuration of coordinated components
- Multiple locking points for maximum resistance
- M-SVP lock available in mechanical, electronic or motorised versions
- One PHA 2500 panic fitting and a M-SVP lock are required for 1-leaf door systems
- Two PHA 2500 panic fittings and a M-SVP lock for 2-leaf door systems as well as a M-SVP-GK are required for 2-leaf door systems.

For more information, see chapter “Customised M-SVP combinations” from page 24.



Optional extension rod at top

Complete packages PHA 2500 Panic Hardware System
for 1-leaf and 2-leaf doors

The packages are configured with panic fittings, coordinated mortise lock and matching spindle. For 2-leaf door systems, the packages can be complemented with extension rods for multi-point locking systems. All door fittings certified as compliant with EN 1906-C1 and DIN 18273, e.g. from the four+ fitting series, are permitted for use as exterior fittings.

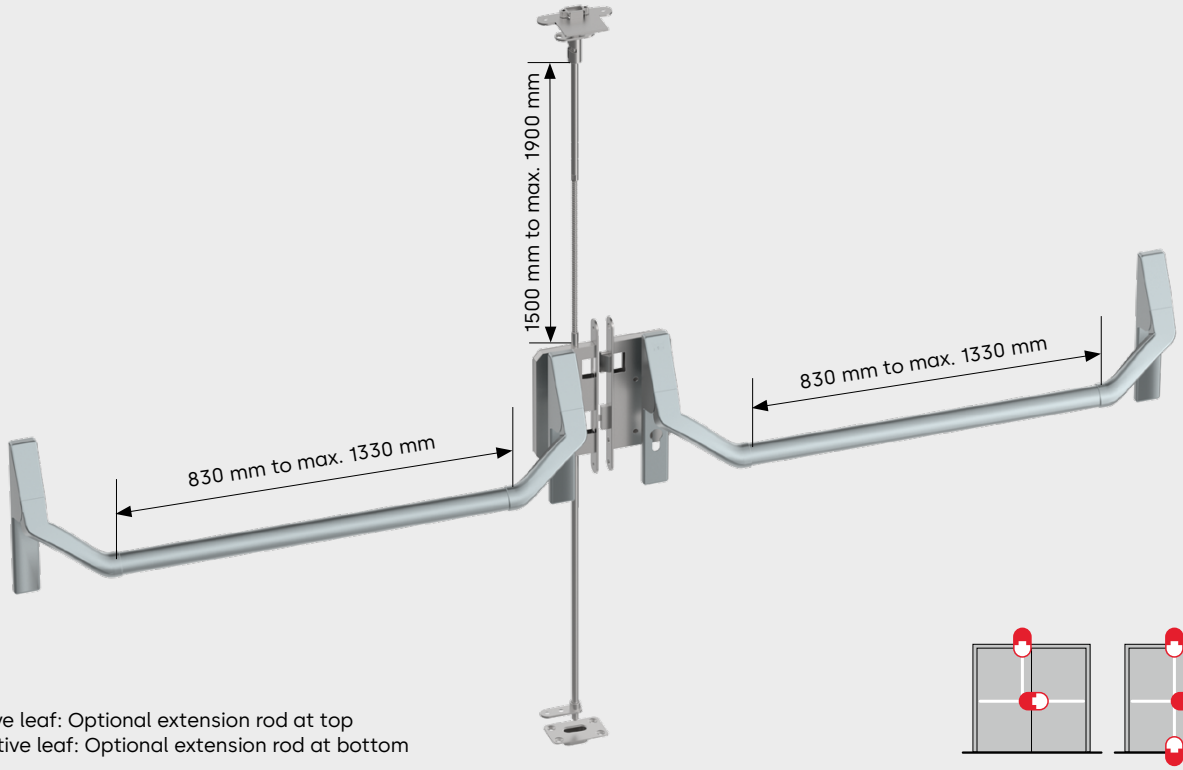
The benefits at a glance

For the trade
- Certified system in one complete pack.
- One actuation touch bar for all door widths.
- Further accessories available for individual applications.

For the architect/specifier
- High-quality appearance with no visible fixing screws.
- Projection from face according to EN 1125.
- Certified system compliant with Euronorm standard.

For the fabricator/installer
- Full range of expertise from a single source.
- Easy to install.
- Readily adaptable to different door widths and heights.
- Excellent range of accessories.

For the user
- Optimum safety – even under preload, the door can be opened from anywhere across its full width.
- Single-source supply for a full range of customer services.



Active leaf: Optional extension rod at top
Inactive leaf: Optional extension rod at bottom

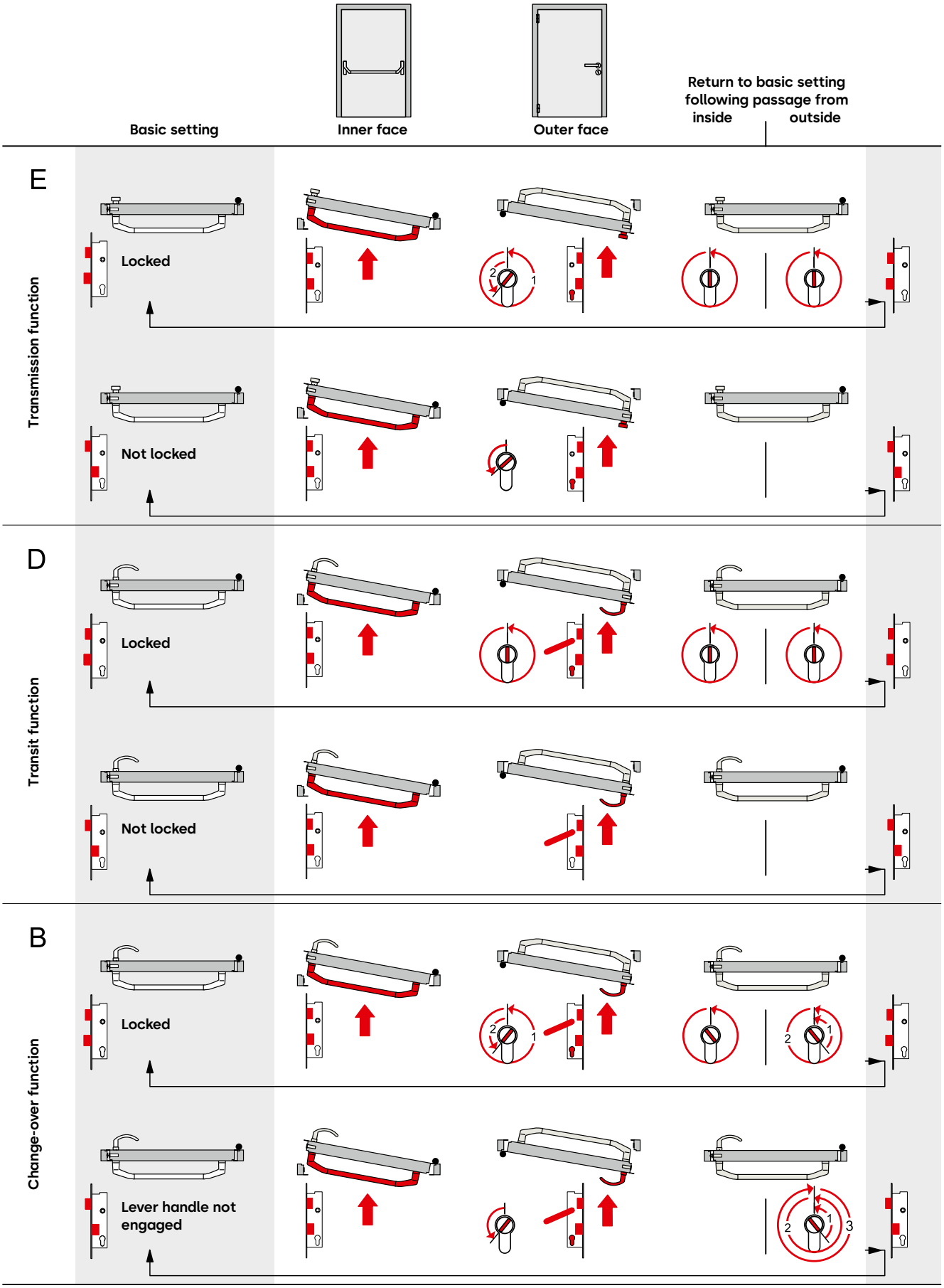
Data and features complete packages PHA 2500 series		single-leaf door	double-leaf door
Standard interior doors in emergency escape routes		●	●
Fire and smoke doors		●	●
Door width[1)]	1000 – 1500 mm	●	–
	2000 – 3000 mm	–	●
Door height[1)]	2500 – 2999 mm	●	●
Max. door leaf weight in kg[1)]		200	200
Handling	DIN-R	●	●
	DIN-L	●	●
Projection from face ≤ 100 mm		●	●
Anti-panic mortise lock		●	●
Spindle for door thicknesses 40 mm to 95 mm		●	●
Backset (mm)		55/65/80	55/65/80
Distance PC (mm)		72	72
Europrofile cylinder (PC) according to DIN 18252		●	●
Version for dia. 22 mm round locking cylinder[2)]		○	○
Usage of electronic knob cylinder, PC possible		○	○
Lock function: Transmission (E) / Transit (D) / Change-over (B)		●/●/●	●/●/●
Forend width (mm)		20/24	20/24
Extension rod with switch lock (inactive leaf)		–	●
Powder-coated silver		●	●
Stainless steel finish		●	●
External fitting from the four+ series or to EN 1125 certificate		○	○
Tested and certified to EN 1125		●	●
CE-mark for construction projects		●	●
ISO 9000		●	●

● Yes – No ○ Option

[1)] Data correspond to the maximum application scope of EN 1125.
[2)] For use only in combination with SVP and M-SVP

Complete packages PHA 2500 Panic Hardware System

Lock functions E, D, B



Transmission function E

For doors in which unauthorised opening from the outside must be reliably prevented. Opening of the door from the inside (danger side) is always possible.

In the event of a panic situation, the latch and the engaged bolt are retracted simultaneously by actuating the exit device from the inside. The bolt remains withdrawn and can be locked again using the key.

On the outside is a fixed dead knob. The door can be unlocked and the latch retracted using the key. Locking is always performed with the key.

Transit function D

For doors in which passage from the outside may occasionally be necessary. Opening of the door from the inside (danger side) is always possible. Following panic activation, access from the outside is also automatically enabled.

In the event of a panic situation, the latch and the engaged bolt are retracted simultaneously by actuating the exit device from the inside. After panic unlocking, the bolt remains withdrawn and can be locked again with the key.

A lever handle is fitted to the outside face. The door can be unlocked and the latch retracted using the lever handle.

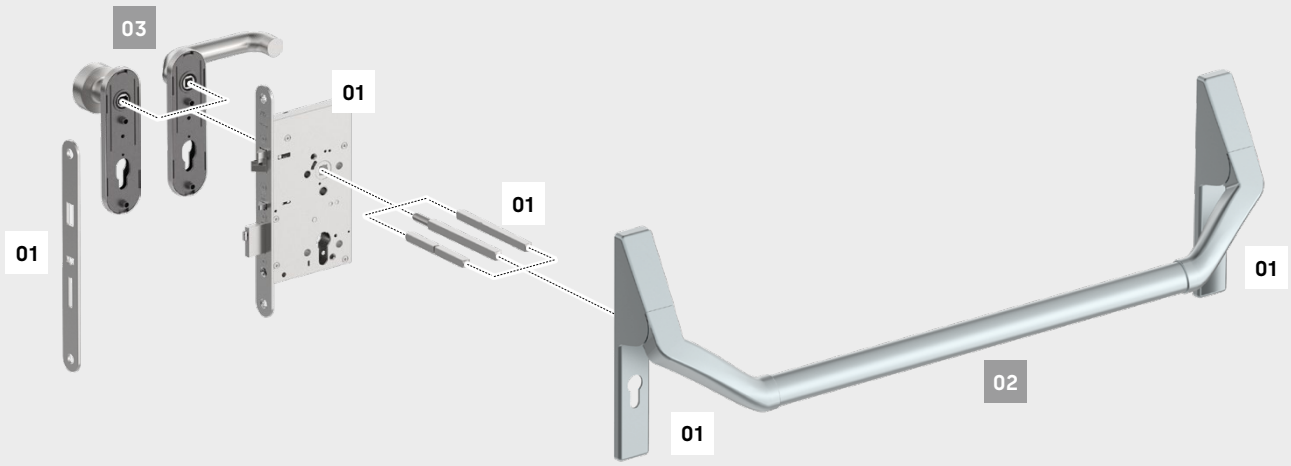
Change-over function B

For doors in which passage from the outside may occasionally be necessary. The lever handle on the outside face may be engaged and disengaged. Opening of the door from the inside (danger side) is always possible.

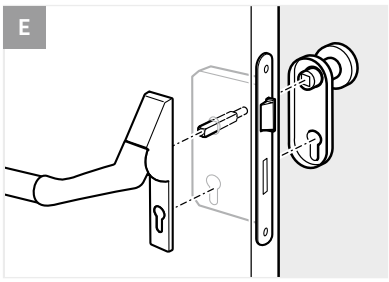
In the event of a panic situation, the latch and the engaged bolt are retracted simultaneously by actuating the exit device from the inside. After panic unlocking, the bolt remains withdrawn and can be locked again with the key.

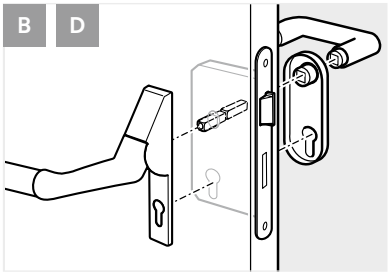
A lever handle is fitted to the outside face. The key can be used to retract the lock and engage the lever handle which can then be used to retract the latch. The lever handle remains engaged until the key is used to re-lock the door.

Complete packages PHA 2500 Panic Hardware System
1-leaf



01 Complete package PHA 2500 VB panic fitting incl. Mortise lock, Strike plate and spindle
02 PHA 2105 Connecting rod
03 four+ door fittings





Area of application
- Interior doors in emergency escape routes
- Fire and smoke doors, an additional approval certification of the relevant fire and smoke doors may be necessary – check local regulations

Permissible door leaf dimensions
- Widths up to 1,500 mm, max. weight 200 kg
- Door leaf thickness 46 mm to 76 mm with spindle included. Locks with functions D and B (split follower) require a centred lock position in the door leaf. Different door leaf thicknesses and off-centre lock positions are possible using optional spindles. See application notes on page 18.

Model variants
- Lock functions: Transmission (E), Transit (D) or Change-over (B)
- Handling: DIN-R or DIN-L
- Backset 55, 65 or 80 mm
- Forend width 20 or 24 mm
- Surface: powder-coated silver or stainless steel finish

Required accessories
- PHA 2105 Connecting rod
- External door fitting, e.g. from the four+ series, with lever handle for change-over function (B) or transit function (D), and door knob for transmission function (E). Door fittings in accordance with EN 1125 certification may be used as an alternative.
- Europrofile cylinder to DIN 18252

Specification text

PHA 2500 VB, single-leaf
Panic exit device for single-leaf timber doors, compliant with EN 1125, with touch bar (type A according to EN 1125), door widths up to 1500 mm/door weight up to 200 kg; projection from face per category 2 ≤ 100 mm, nip-free design, no visible fixing screws. With panic mortise lock with With transit, change-over or transmission function, backset of 55/65/80 mm, Prepared for installation of an electronic cylinder (Europrofile cylinder). Approved for use on fire and smoke doors. Additional approval certification of the relevant fire and smoke doors may be necessary – check local regulations. Suitable for use in combination with additional SafeRoute electrical escape route security system in accordance with EltVTR and EN 13637. All products of the PHA 2500 series carry the CE mark.

Product	DIN	Backset	Lock function	Forend width 24 Order No.	Forend width 20 Order No.
01 **PHA 2500 for timber doors** single-leaf, 1-point-locking	L	55	**D** Transit	35014 2621**01**xx	35014 2621**10**xx
			E Transmission	35014 2621**02**xx	35014 2621**11**xx
			B Change-over	35014 2621**03**xx	35014 2621**12**xx
		65	**D** Transit	–	35014 2621**13**xx
			E Transmission	35014 2621**05**xx	35014 2621**14**xx
			B Change-over	35014 2621**06**xx	35014 2621**15**xx
		80	**D** Transit	35014 2621**07**xx	35014 2621**16**xx
			E Transmission	35014 2621**08**xx	–
			B Change-over	35014 2621**09**xx	–
	R	55	**D** Transit	35014 2621**19**xx	35014 2621**28**xx
			E Transmission	35014 2621**20**xx	35014 2621**29**xx
			B Change-over	35014 2621**21**xx	35014 2621**30**xx
		65	**D** Transit	–	35014 2621**31**xx
			E Transmission	35014 2621**23**xx	35014 2621**32**xx
			B Change-over	35014 2621**24**xx	35014 2621**33**xx
		80	**D** Transit	35014 2621**25**xx	–
			E Transmission	35014 2622**26**xx	35014 2622**35**xx
			B Change-over	35014 2622**27**xx	35014 2622**36**xx

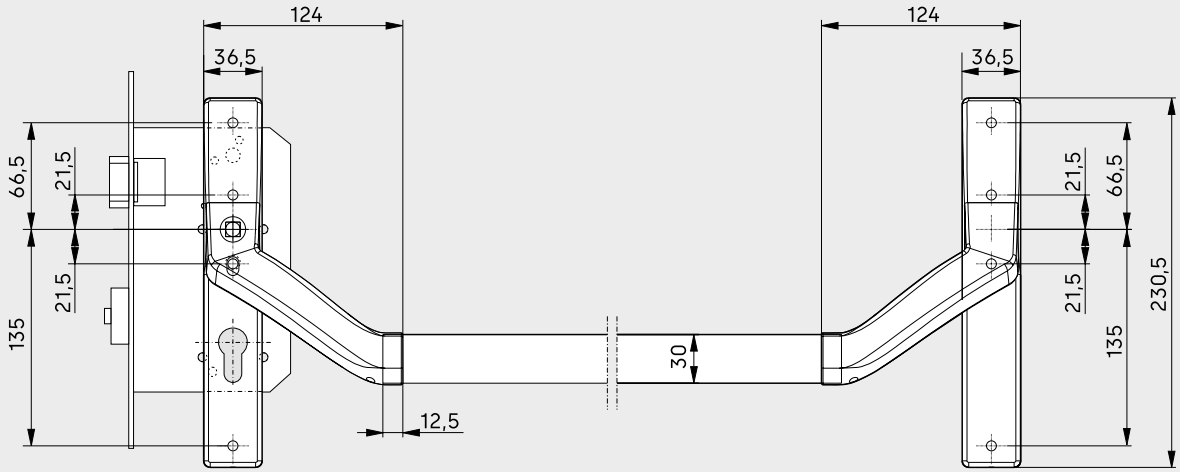
Required accessories		Order No.
02 **PHA Connecting rod** for PHA 2500	**PHA 2104, Length 830 mm** for door widths up to 1,000 mm	35014 210400**xx**
	PHA 2105, Length 1130 mm for door widths up to 1300 mm	35014 210500**xx**
	PHA 2106, Length 1330 mm for door widths up to 1500 mm	35014 210600**xx**
03 **four+ door fittings for timber doors NEW** Suitable for fire doors in accordance with EN 1906-C1 and DIN 18273, L/R universal, matt stainless steel finish	**four+ 104 Lever handle on short plate** PC punching, 9 mm, threaded side, without spindle	71000120
	four+ 204 Knob on short plate PC punching, 9 mm, threaded side, without handle/knob spindle	71000130
	four+ 104 Lever handle on round rosette for VB 9 mm, EN 179, non-threaded side, without spindle	71000105
	four+ 104 Knob on round rosette for VB Non-threaded side, without handle/knob spindle	71000110
	PC Key rosette, punched Non-threaded side	71000100

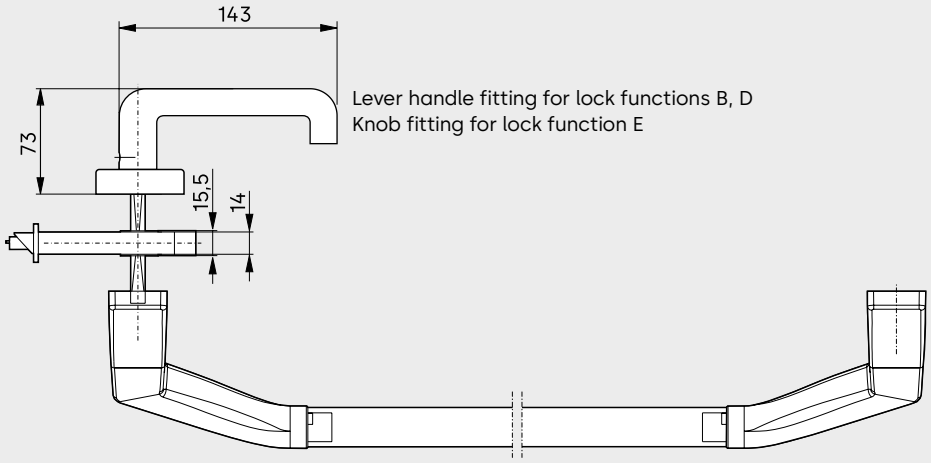
For description of lock functions see pages 6, 7

Spindles: Note advisory on page 18.

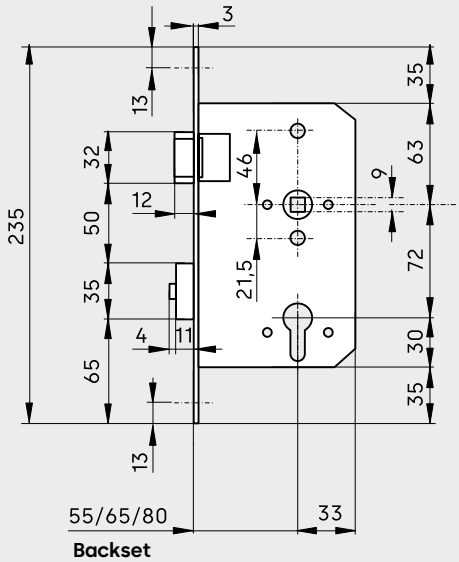
xx = Colour
01 = Silver
04 = Stainless steel finish

Complete packages PHA 2500 Panic Hardware System
Dimensional drawings 1-leaf

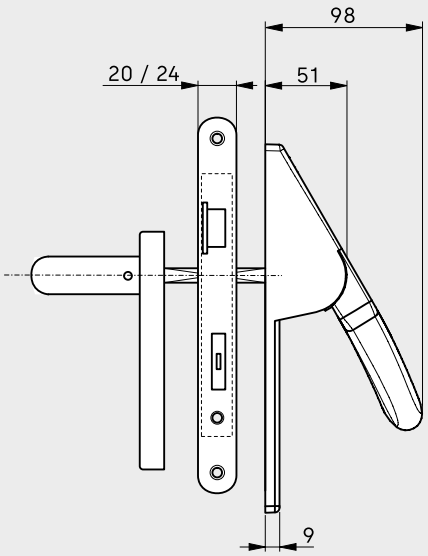


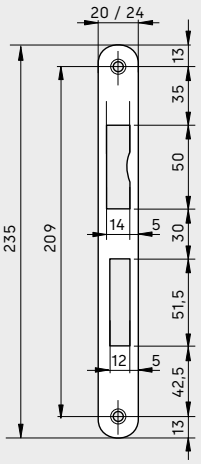


Lever handle fitting for lock functions B, D
Knob fitting for lock function E

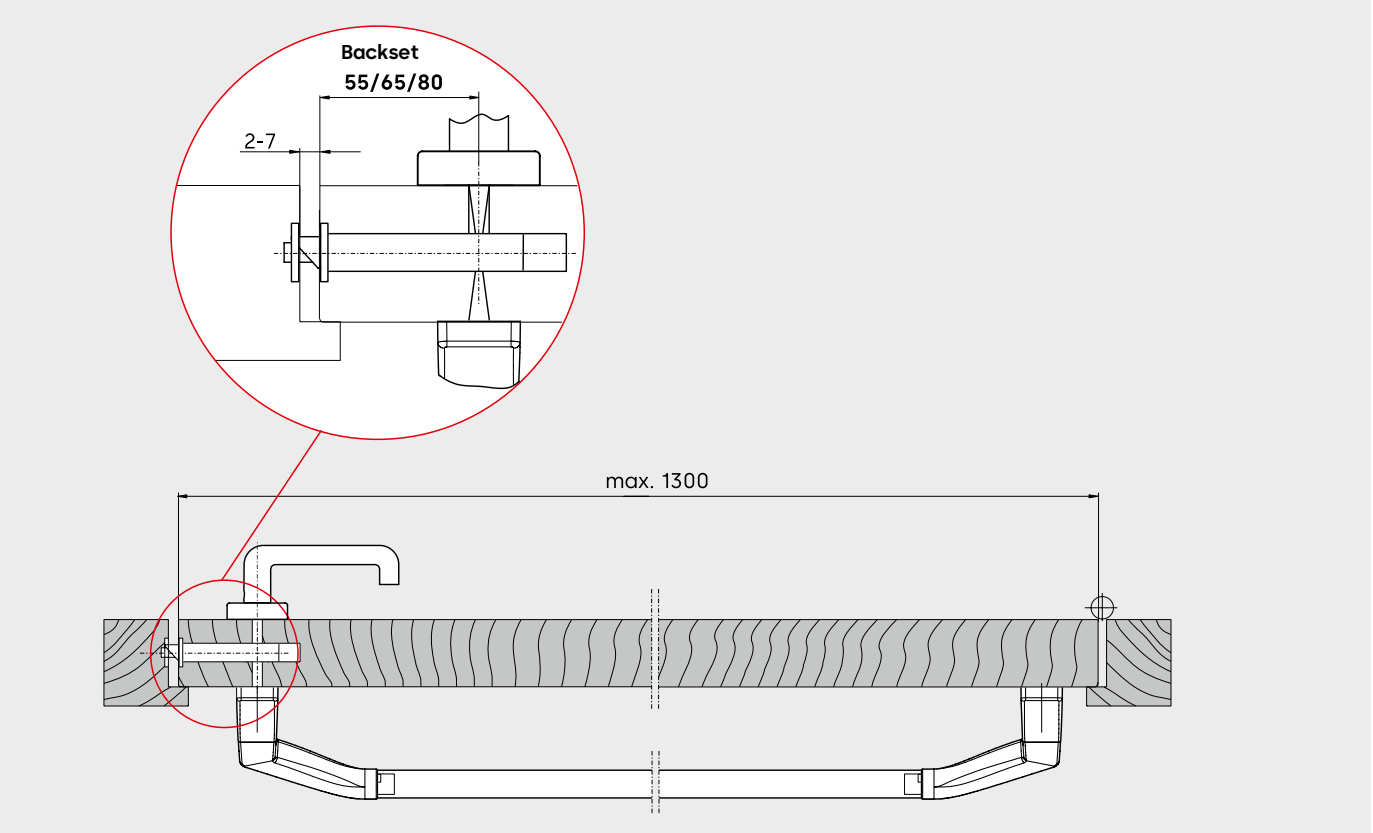


Backset

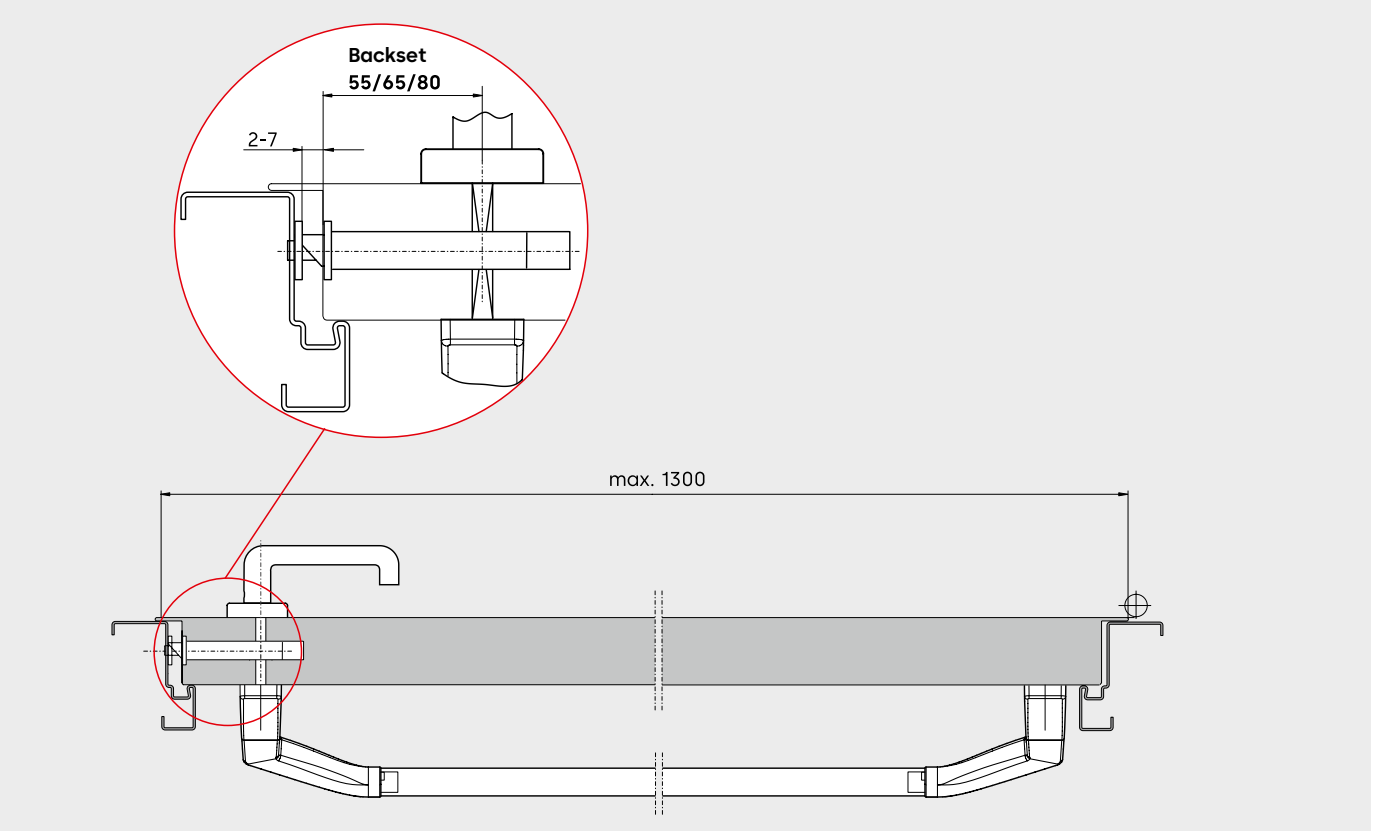




Complete packages PHA 2500 Panic Hardware System
Installation drawings 1-leaf



Horizontal locking, wooden door (Note advisory on page 18)



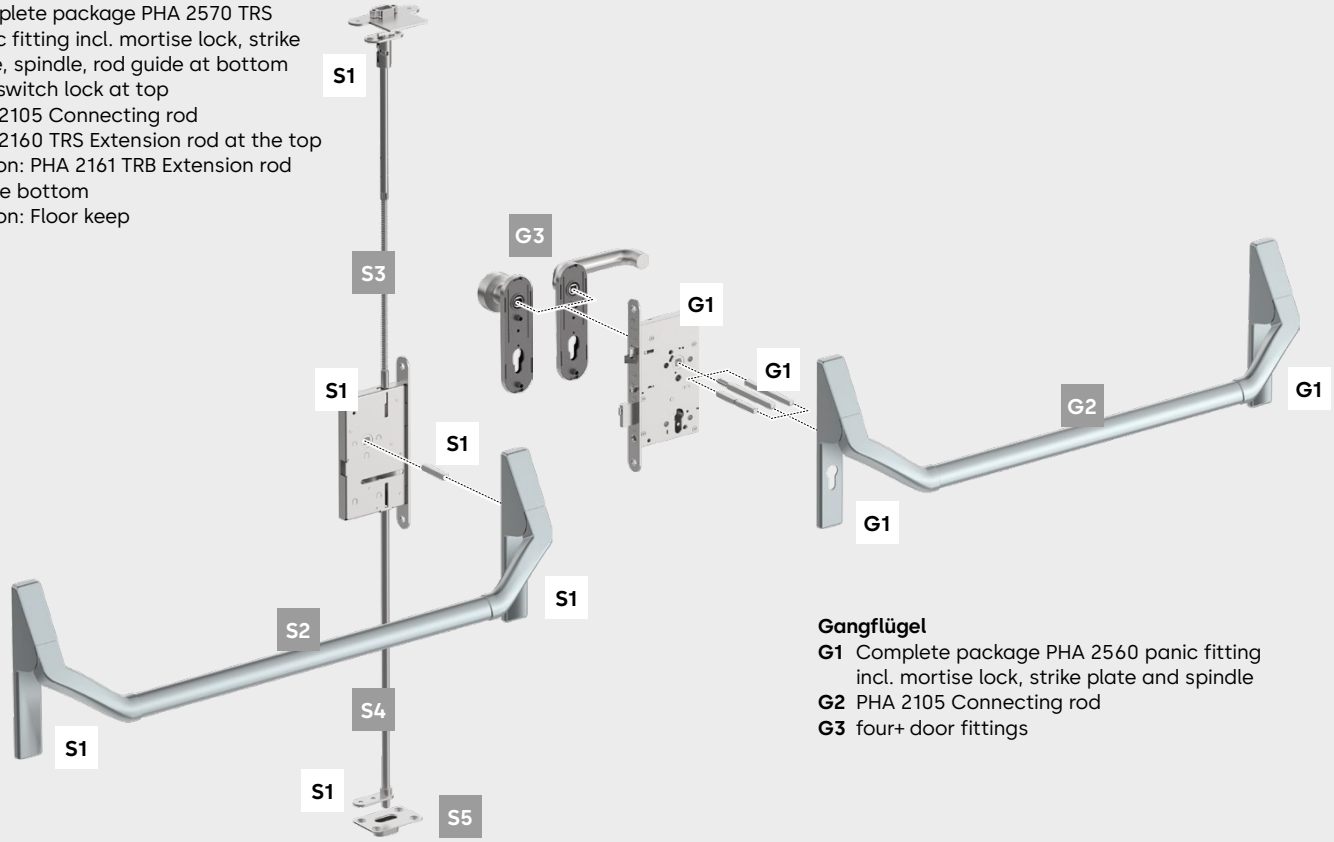
Horizontal locking, sheet steel door (Note advisory on page 18)

Complete packages PHA 2500 Panic Hardware System

2-leaf with or without TRB extension rod at the bottom of the inactive leaf

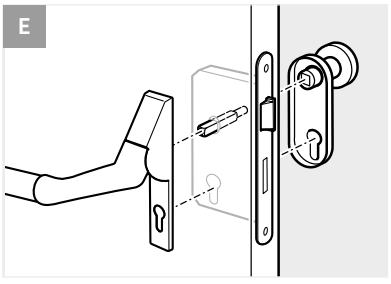
Standflügel

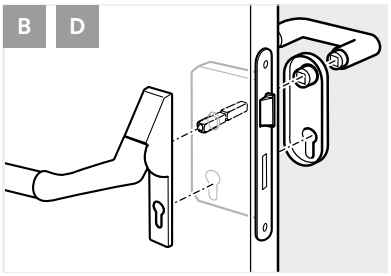
S1 Complete package PHA 2570 TRS panic fitting incl. mortise lock, strike plate, spindle, rod guide at bottom and switch lock at top
S2 PHA 2105 Connecting rod
S3 PHA 2160 TRS Extension rod at the top
S4 Option: PHA 2161 TRB Extension rod at the bottom
S5 Option: Floor keep



Gangflügel

G1 Complete package PHA 2560 panic fitting incl. mortise lock, strike plate and spindle
G2 PHA 2105 Connecting rod
G3 four+ door fittings





Area of application

- Interior doors in emergency escape routes
- Fire and smoke doors, an additional approval certification of the relevant fire and smoke doors may be necessary – check local regulations

Permissible door leaf dimensions

- Widths up to 1,500 mm, active leaf heights up to 2500 mm and inactive leaf heights up to 2999 mm, max. Gewicht 200 kg
- Door leaf thickness 46 mm to 76 mm with spindle included. Locks with functions D and B (split follower) require a centred lock position in the door leaf. Different door leaf thicknesses and off-centre lock positions are possible using optional spindles. See application notes on page 18.

Model variants

- Lock functions: Transmission (E), Transit (D) or Change-over (B)
- Handling DIN-R or DIN-L
- Backset 65 or 80 mm
- Forend width 20 or 24 mm
- Surface: powder-coated silver or stainless steel finish

Required accessories on the active leaf

- PHA 2105 Connecting rod
- External door fitting, e.g. from the four+ series, with lever handle for change-over function (B) or transit function (D), and door knob for transmission function (E). Door fittings in accordance with EN 1125 certification may be used as an alternative.
- Europrofile cylinder to DIN 18252

Required accessories for inactive leaf

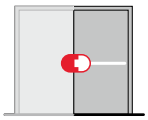
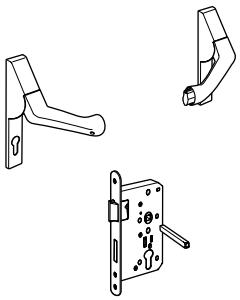
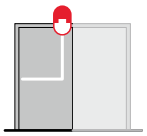
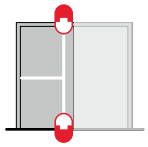
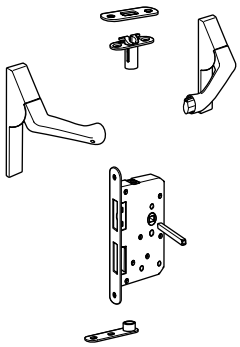
- External door fitting, e.g. from the four+ series with blind rose

Optional accessories for inactive leaf

- PHA 2161 TRB Extension rod at bottom and floor keep

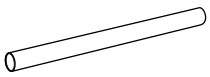
Specification text

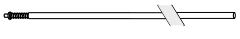
PHA 2500 VB TRS (extension rod at the top), double-leaf
Inactive leaf with TRS extension rod at the top and extension rod at the bottom TRB. Panic exit device compliant with EN 1125, with touch bar (type A according to EN 1125), for double-leaf timber doors, door leaf widths up to 1,500 mm, active leaf height up to 2500 mm and inactive leaf height up to 2,999 mm, door weight up to 200 kg, projection from face per category 2 ≤ 100 mm, DIN-L and DIN-R usable, nip-free design, no visible fixing screws. Panic mortise lock at the active-leaf with With transit, change-over or transmission function, backset of 65/80 mm and prepared for installation of an electronic cylinder (Europrofile cylinder). Lock case at the inactive leaf, backset of 65/80 mm, incl. switch lock and rod guide. Approved for use on Fire and smoke doors. Additional approval certification of the relevant Fire and smoke doors may be necessary – check local regulations. Suitable for use in combination with additional SafeRoute electrical escape route security system in accordance with EltVTR and EN 13637. All products of the PHA 2500 series carry the CE mark.

Product	DIN	Backset	Lock function	Forend width 24 Order No.	Forend width 20 Order No.
G1 **PHA 2560** double-leaf, Active leaf 1-point-locking  	L	65	**D** Transit	35014 2622**04**xx	35014 2622**13**xx
			E Transmission	35014 2622**05**xx	35014 2622**14**xx
			B Change-over	35014 2622**06**xx	35014 2622**15**xx
		80	**D** Transit	35014 2622**07**xx	–
			E Transmission	–	35014 2622**17**xx
			B Change-over	35014 2622**09**xx	–
	R	65	**D** Transit	35014 2622**22**xx	35014 2622**31**xx
			E Transmission	35014 2622**23**xx	35014 2622**32**xx
			B Change-over	35014 2622**24**xx	35014 2622**33**xx
		80	**D** Transit	35014 2622**25**xx	35014 2622**34**xx
			E Transmission	35014 2622**26**xx	–
			B Change-over	35014 2622**27**xx	35014 2622**36**xx
S1 **PHA 2570 TRS** double-leaf, Inactive leaf 1-/2-Point locking   	L	65	–	35014 2624**01**xx	35014 2624**03**xx
		80	–	35014 2624**02**xx	35014 2624**04**xx
	R	65	–	35014 2624**05**xx	35014 2624**07**xx
		80	–	35014 2624**06**xx	35014 2624**08**xx

Lock case with angle plate

DIN	Backset	Lock function	Order No. Forend width 20, angle width 12
L	65	–	35014262**409**xx
R	65	–	35014262**410**xx

Required accessories		Order No.
G2/ S2 **PHA Connecting rods** for PHA 2560 and PHA 2570 TRS 	**PHA 2104, Length 830 mm** for door widths up to 1,000 mm	35014 210400**xx**
	PHA 2105, Length 1130 mm for door widths up to 1300 mm	35014 210500**xx**
	PHA 2106, Length 1330 mm for door widths up to 1500 mm	35014 210600**xx**
G3 **four+ door fittings for timber doors** NEW Suitable for fire doors in accordance with EN 1906-C1 and DIN 18273, L/R universal, matt stainless steel finish 		see page 9
S3 **PHA 2160 TRS Extension rod at the top** for PHA 2570 TRS (inactive leaf), tube Ø 10 mm 	for door heights up to 2500 mm	35014 21600000

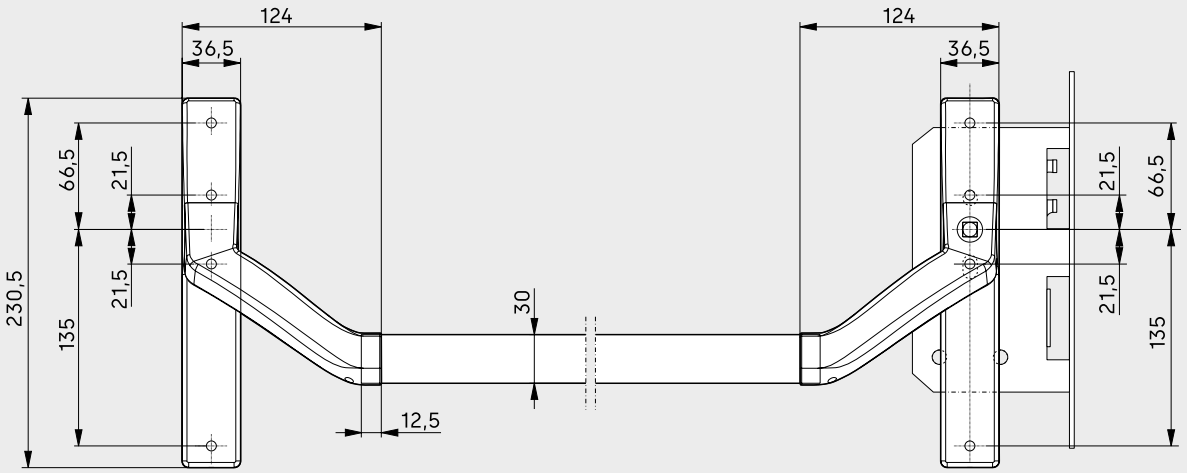
Optional accessories		Order No.
S3 **PHA 2160 TRS Extension rod at the top** for PHA 2570 TRS (inactive leaf), tube Ø 10 mm 	for door heights 2500 mm to 2999 mm	35014 000041
S4 **PHA 2161 TRB Extension rod at the bottom** for PHA 2570 TRB (inactive leaf), tube Ø 10 mm 	for lever handle height 1050 mm	35014 21610000
S5 **Floor keep** for locking the bottom extension rod on the inactive door leaf. 	Required for panic exit devices according to EN 1125.	see page 27

For description of lock functions see pages 6, 7

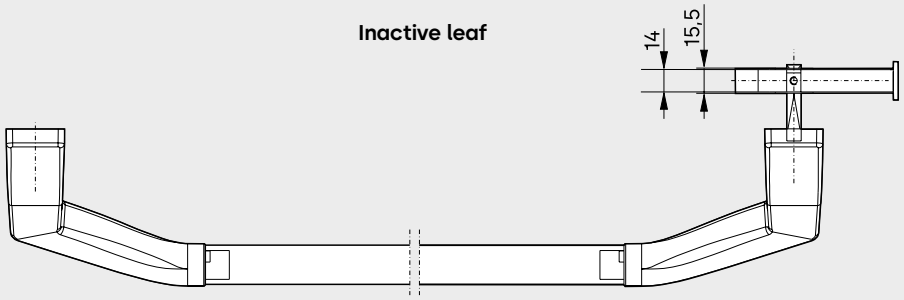
Spindles: Note advisory on page 18.

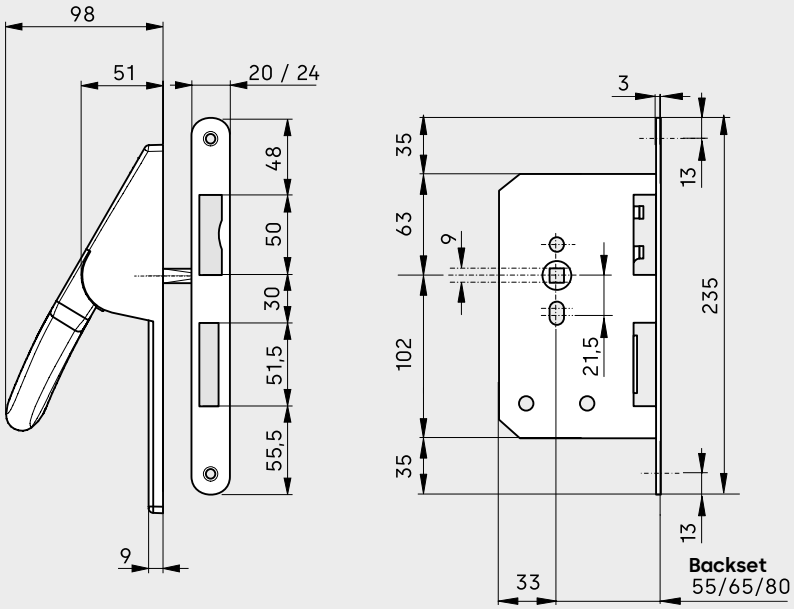
xx = Colour
01 = Silver
04 = Stainless steel finish

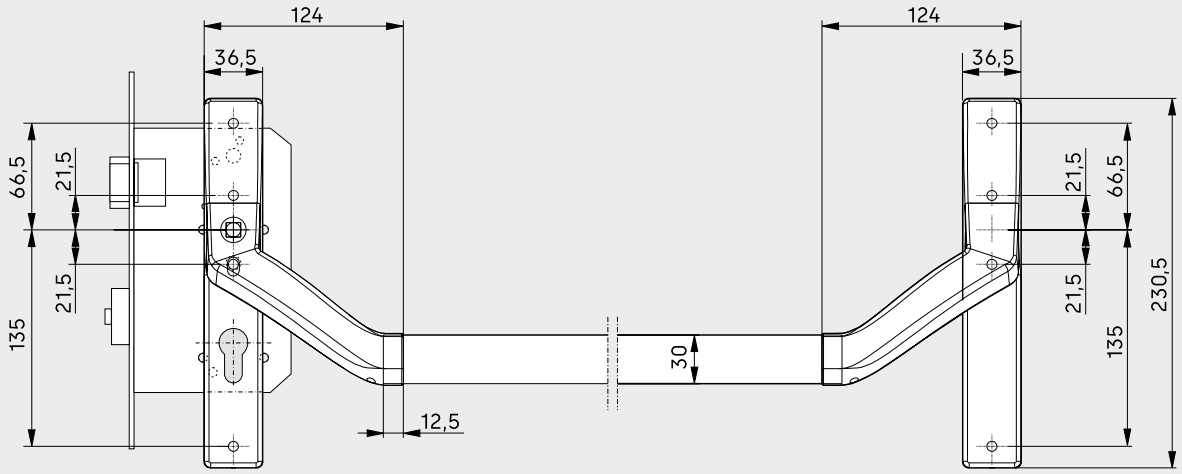
Complete packages PHA 2500 Panic Hardware System
Dimensional drawings 2-leaf

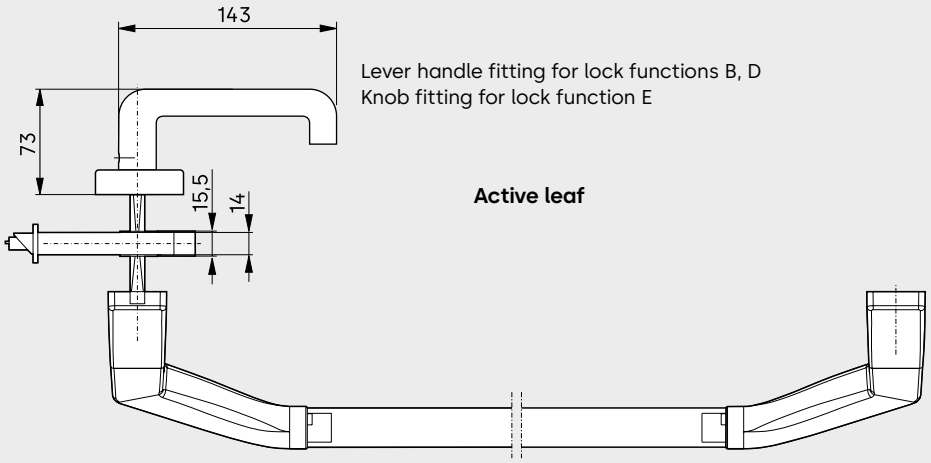


Inactive leaf



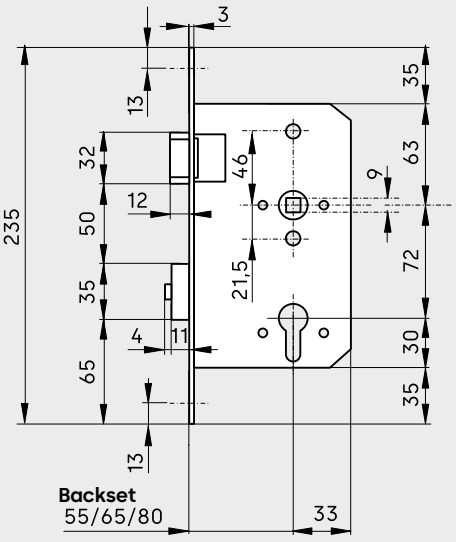


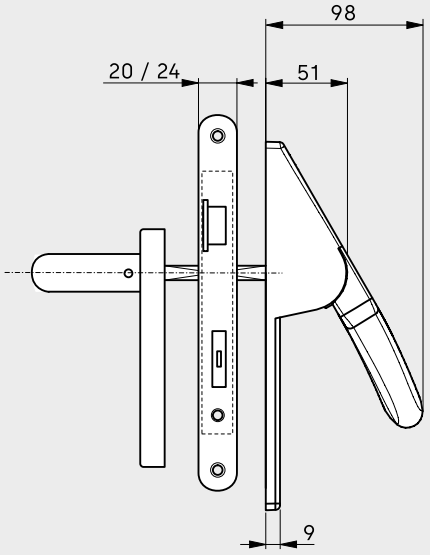




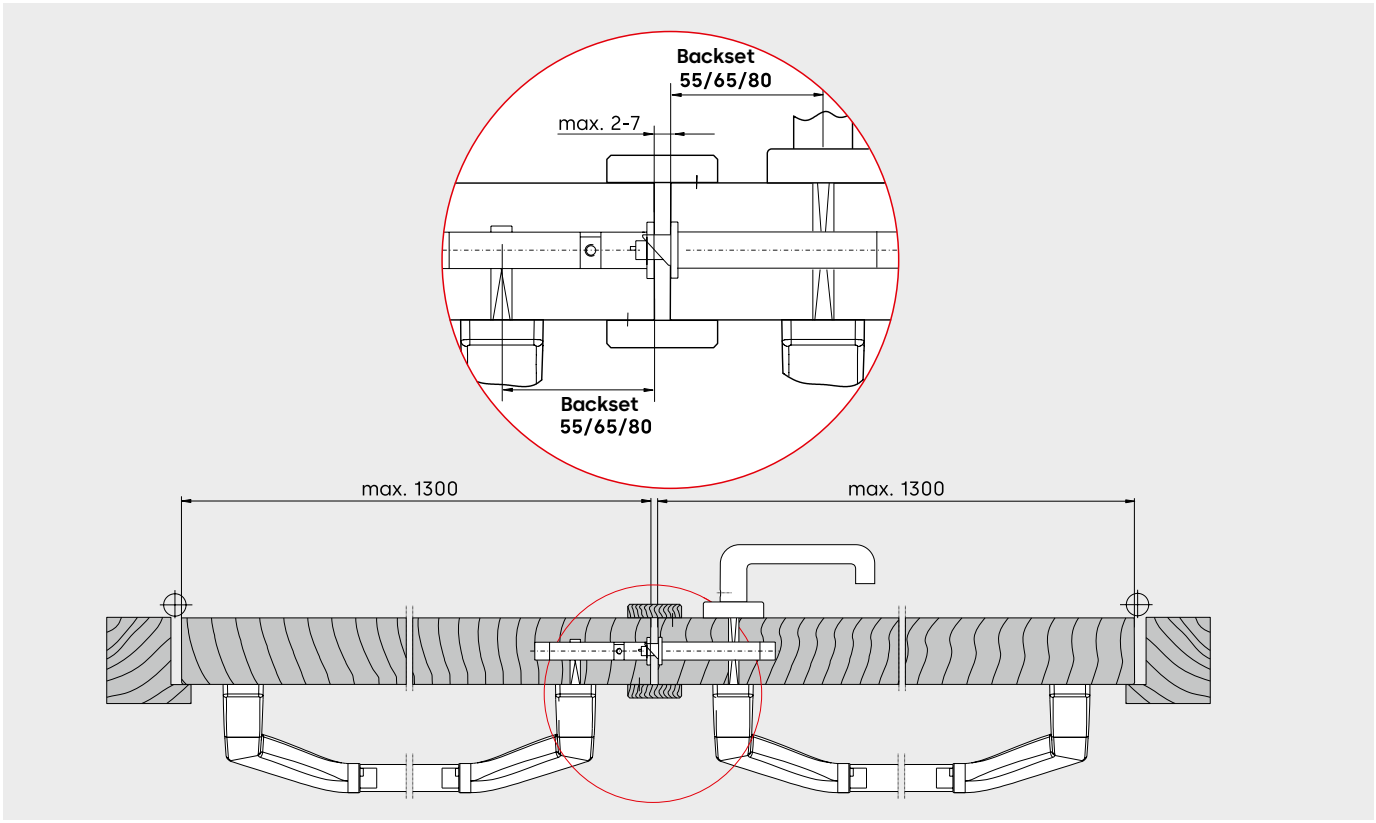
Lever handle fitting for lock functions B, D
Knob fitting for lock function E

Active leaf

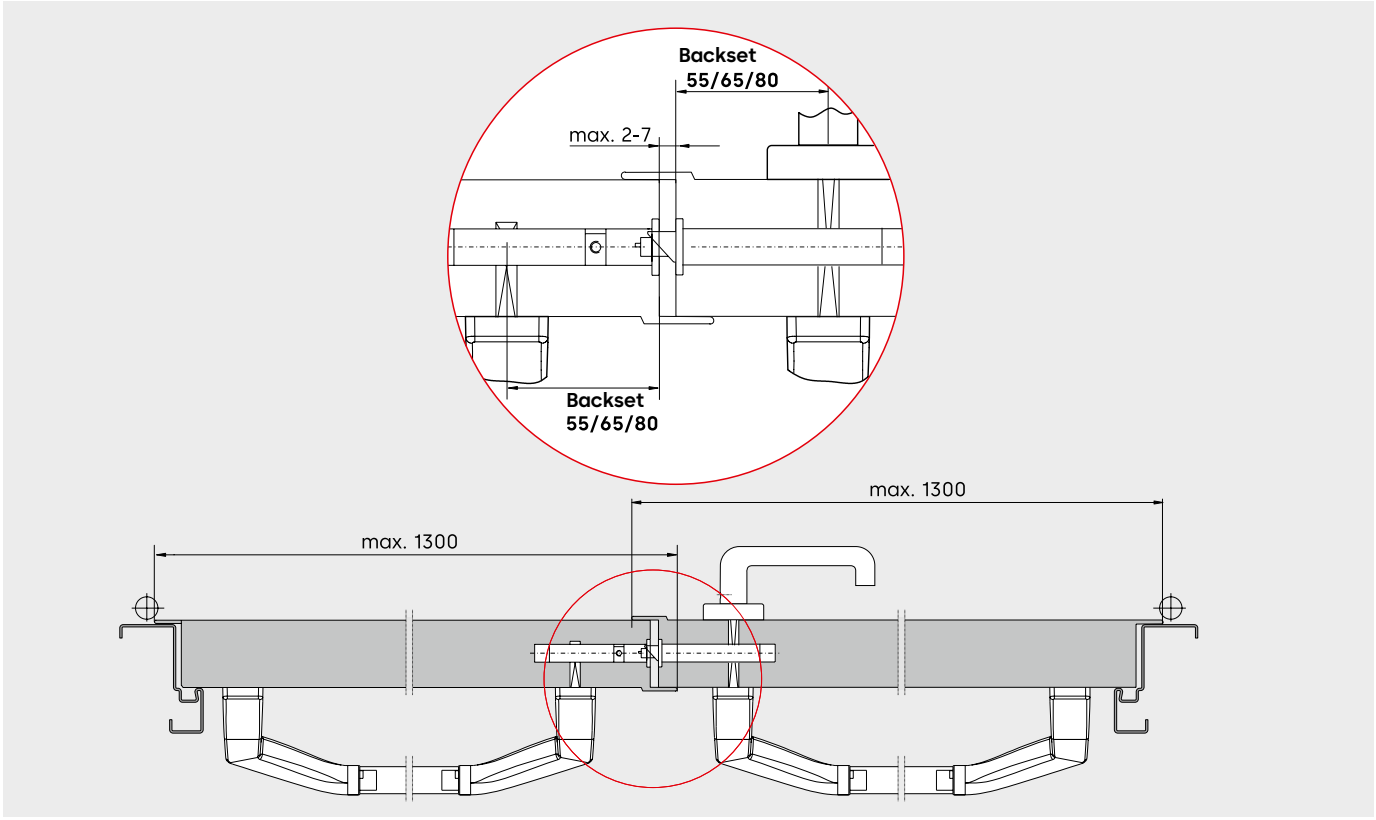




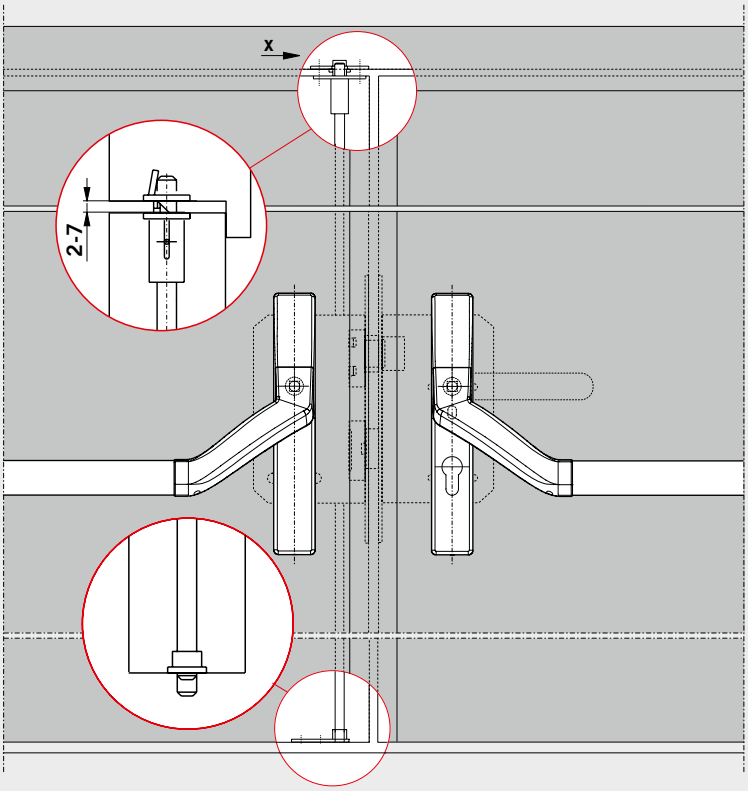
Complete packages PHA 2500 Panic Hardware System
Installation drawings 2-leaf with or without TRB extension rod at the bottom of the inactive leaf



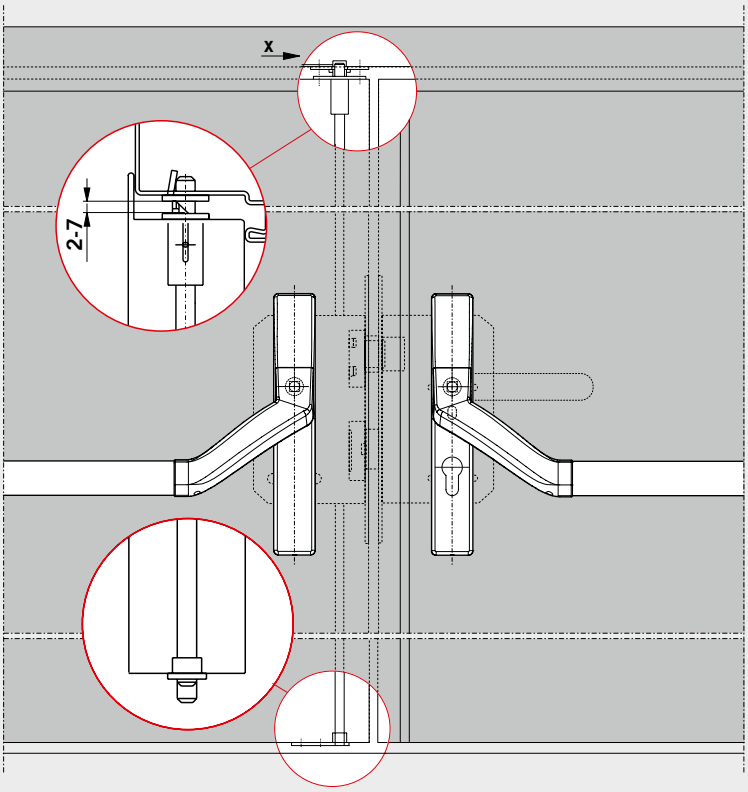
Horizontal locking, wooden door (Note advisory on page 18)



Horizontal locking, sheet steel door (Note advisory on page 18)



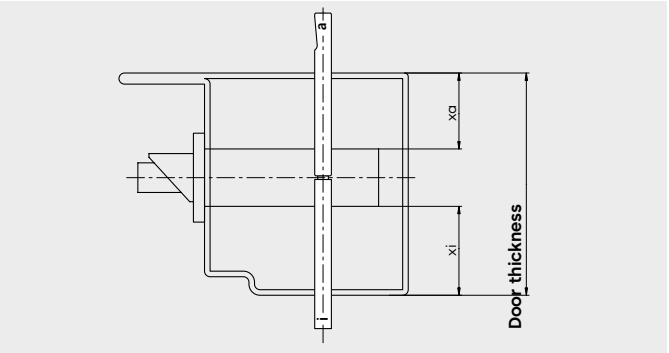
Vertical locking, wooden door – For panic exit devices according to EN 1125 a floor keep is necessary (see page 27)



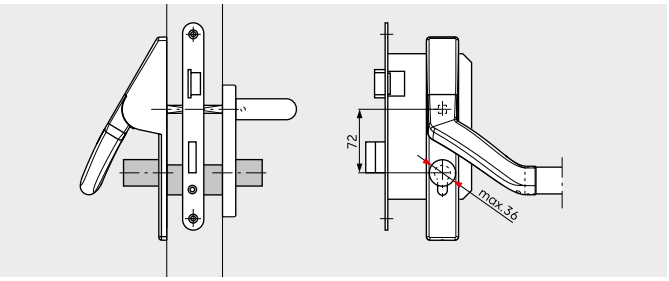
Vertical locking, sheet steel door – For panic exit devices according to EN 1125 a floor keep is necessary (see page 27)

Application notes

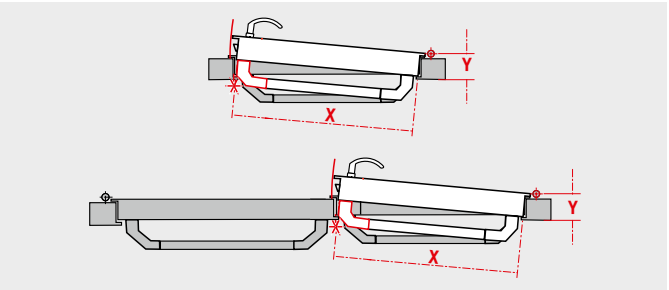
Spindles
The spindles included in the scope of supply of the PHA 2500 system are designed for door thicknesses of 40–95 mm. In the case of locks with functions D and B (split follower), a central lock fit is necessary for these spindles. In the case of door leaf thicknesses outside the given ranges and/or an asymmetric lock fit, the corresponding spindle will need to be separately ordered. Please ensure that all the relevant drawing dimensions are indicated.



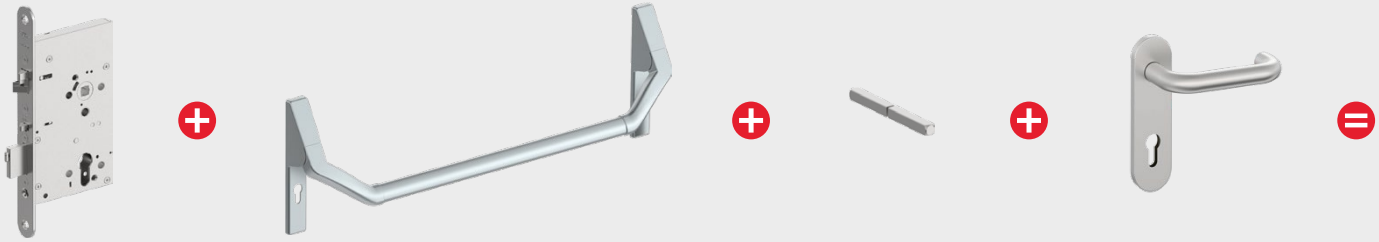
PHA 2500 with an electronical knob cylinder
Use of an electronical knob cylinder according to certificate of conformity 0432-BPR-0066 PHA 2500.



Door situation
It may be the case that the panic fitting cannot be installed on extreme door situations according to standard measurements (door width X smaller than 1000 mm in connection with the distance of the hinge Y bigger than 90 mm). On request dormakaba will gladly give you installation suggestions.



Configuration of panic fitting to individual requirements



Self-locking panic mortise lock

PHA panic fitting and touch bar

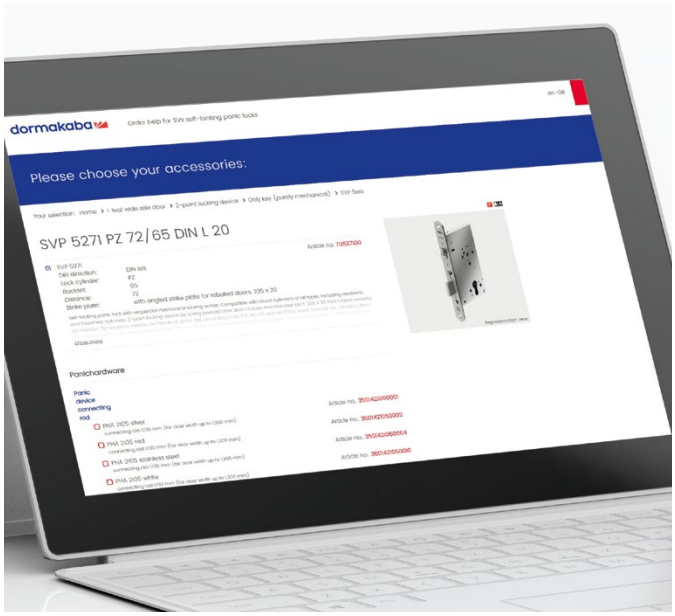
Spindle

four+ door fitting

EN 1125 compliant

The dormakaba door lock range offers comprehensive solutions for single-leaf and double-leaf doors. In combination with a PHA 2500 panic fitting, not only are the requirements of EN 1125 met, but complex door requirements can also be realised.

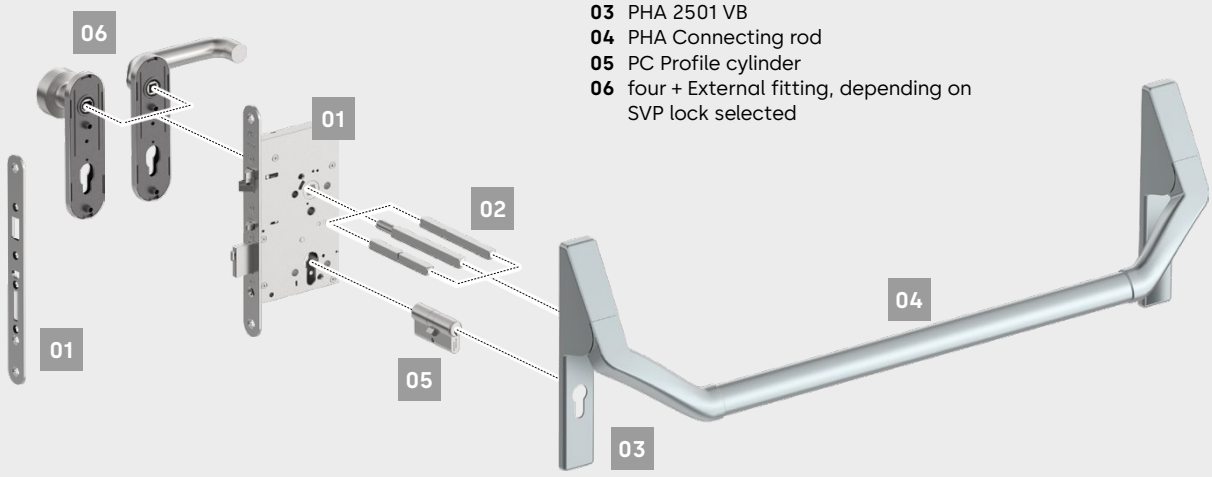
- Insurance-proof lock with two-point locking via bolt and cross latch (SVP and SVA lock combinations)
- Increased security thanks to multi-point locking systems (M-SVP locks)
- Fully mechanical locks, e.g. for retrofitting existing door systems
- Electronic switch locks, e.g. for monitored doors in connection with access control systems
- Motorised locks, e.g. for barrier-free automatic doors
- All locks are available in various designs, backsets and lock cylinder types.



Simply online: Buying guide

svpassist.dormakaba-tools.de/en-GB

Individual configuration
Selection of SVP lock for 1-leaf doors



01 SVP lock incl. strike plate
02 Spindle depending on SVP lock selected
03 PHA 2501 VB
04 PHA Connecting rod
05 PC Profile cylinder
06 four + External fitting, depending on SVP lock selected

Essential requirement: The door can always be opened from the inside (emergency escape function) and locks automatically after each closure (insurance-compliant lock).

Access from outside only with a key ...		... and using a lever handle and/or electric access control systems		... and/or electric access control systems or automation
Without wiring (mechanical solution)	Electrically monitored emergency-escape lock	Without wiring (battery-powered emergency-escape lock)	Electrically activated monitored external lever handle	Motor lock, can be electrically unlocked and monitored e.g. in bus system (DCW®/CAN), SafeRoute or ED 100/250
SVP 5xxx + four+ 912 Handle/Knob spindle + four+ 204 Knob + Round rosette PC + PHA 2501 VB + PHA Connecting rod	**SVP 4xxx** + four+ 912 Handle/Knob spindle + four+ 204 Knob + Round rosette PC + PHA 2501 VB + PHA Connecting rod	**SVP 7xxx Air** + PHS 5S Spindle + four+ 104 Lever handle + Round rosette PC + PHA 2501 VB + PHA Connecting rod	**SVP 6xxx** + PHS 5S Spindle + four+ 104 Lever handle + Round rosette PC + PHA 2501 VB + PHA Connecting rod	**SVP 2xxx** **oder SVP 2xxx F** + four+ 912 Handle/Knob spindle + four+ 204 Knob + Round rosette PC + PHA 2501 VB + PHA Connecting rod

		SVP 5000	SVP 4000	SVP 6000	SVP 2000	SVP 2000 F	SVP 7000 Air
Approvals	Fire and smoke doors	●	●	●	●[2]	●	●
	DIN EN 179/DIN EN 1125	●	●	●	●	●	●
Emergency escape functions	Door opening from inside via lever handle/pushbar	●	●	●	●	●	●
	Forced closure function (C)	–	–	●	–	–	●
	Panic function (E) with lever handle/knob set	●	●	–	●	●	–
Unlock	From outside with key	●	●	●	●	●	●
	From outside via lever handle after electrical release (integration in access control systems)	–	–	●	–	–	●
	– Automatic reset of the release when the door fails to open	–	–	●	●	●	●
	– Adjustable unlock or relock time	–	–	–	●	●	–
	– Permanent door release	–	–	–	●[3]	●[5]	–
	Permanent access possible[1]	–	–	●	–	–	●
	Motor lock (suitable for automatic doors)	–	–	–	●	●	–
	Automatic switching off of permanent open/permanent door release if there is a power failure	–	–	●	○[3]	○[3] [5]	–
	Suitable for electronic cylinders	●	●	●	●	●	●
Monitoring	Message "Door open/closed"	–	●	●	●	●	–
	Message "Door locked/unlocked"	–	●	●	●	●	–
	Message "Lever handle operation/emergency escape function"	–	●	●	●	●	–
	Message "Cylinder locking"	–	●	●	●	●	–
	Sabotage line	–	●	●	●	●	–
	DCW®/CAN bus interface	–	–	–	●	●	–
	Enabled SafeRoute® components	●	●	●	●	●	●
Break-in protection	Insurance compliant locking (dual-point locking device)	●	●	●	●	●	●
	Latch bolts	–	–	–	–	–	●
	Mechanical self-locking	●	●	●	●	●	●
Mode of operation	Mechanical (without wiring)	●	–	–	–	–	–
	battery-operated	–	–	–	–	–	●
	Mechanical with electrical monitoring	–	●	●	●	●	●
	Motorized unlocking	–	–	–	●	●	–
	Outside and inside lever handle simultaneously electric engageable/disengageable	–	–	–	–	–	–
	Outside handle electrically engageable/disengageable	–	–	●	–	–	●
Miscellaneous	Mechanical process control	●	●	●	●	●	●
	Electronic sequential control	–	–	–	●	●	–

● Yes – No ○ Optional

[1] PERMANENT OPEN function also permissible on fire and smoke doors, as the doors have a tumbler in case of a fire.
[2] For fire and smoke doors in conjunction with the PR module (emergency power storage).
[3] In fire and smoke doors not approved for permanent door release, as tumbler is not guaranteed in the event of a fire.
[4] In combination with SVP-S Air or via handset.
[5] Only in combination with the ED 100/250, the SVP-S 4x control unit (firmware 4.7 and higher) or SafeRoute (firmware 1.9).

For detailed information on lock variants, dimensional drawings and order numbers, please refer to the 'Self-locking panic mortise locks SVP, SVA/SVI, M-SVP' brochure.

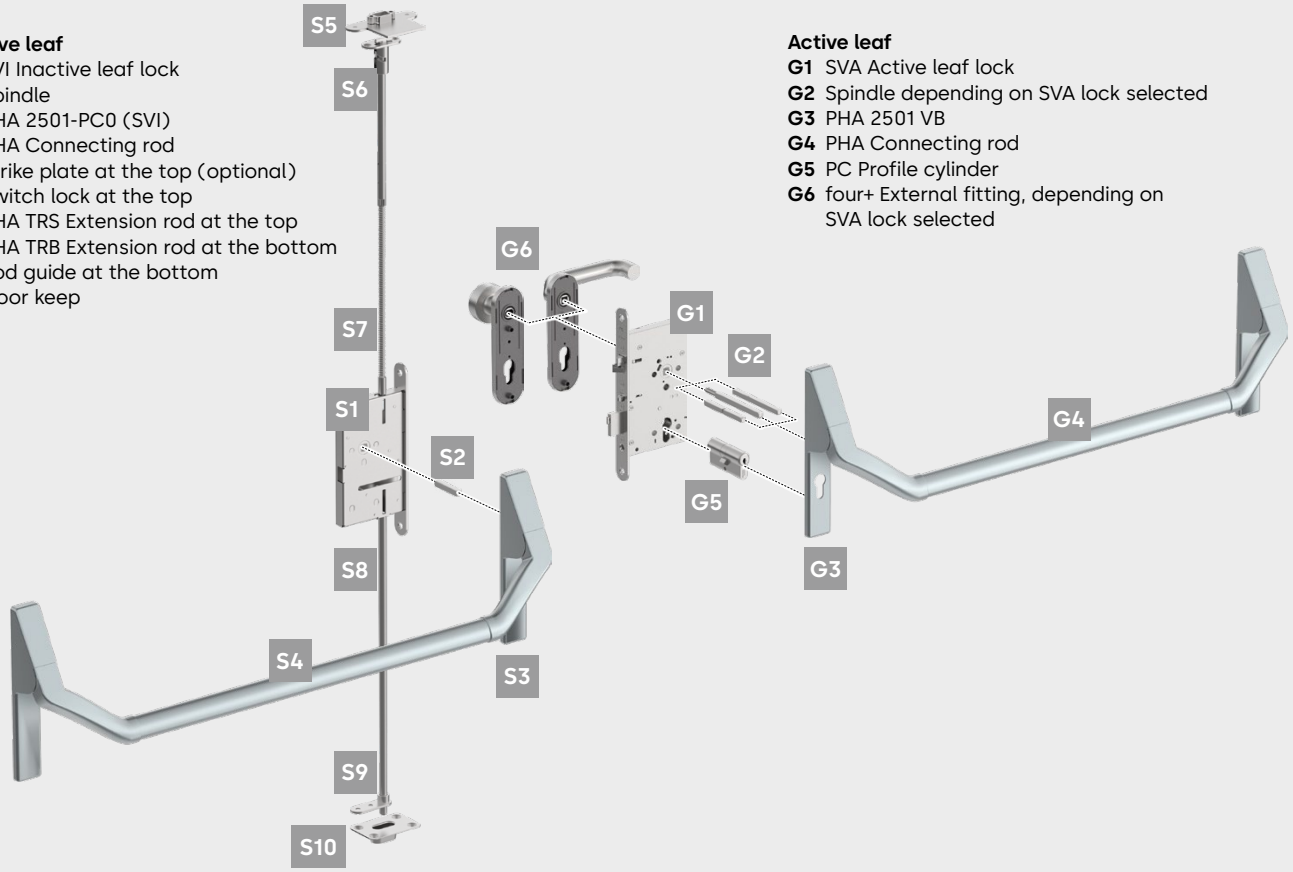
F Certificate of suitability
The SVP locks with automatic locking action have been approved and quality-tested by the notified body MPA in Dortmund. An approval or verification of suitability in conjunction with the respective fire and smoke door may be required.

The SVP locks in combination with lever handles and panic bars from various manufacturers have been certified according to EN 179 "Emergency exit devices operated by a lever handle or push pad" and EN 1125 "Panic exit devices operated by a horizontal bar", and therefore carry the CE mark of conformity CE.

Individual configuration
Selection of SVA/SVI lock for 2-leaf doors

Inactive leaf
S1 SVI Inactive leaf lock
S2 Spindle
S3 PHA 2501-PC0 (SVI)
S4 PHA Connecting rod
S5 Strike plate at the top (optional)
S6 Switch lock at the top
S7 PHA TRS Extension rod at the top
S8 PHA TRB Extension rod at the bottom
S9 Rod guide at the bottom
S10 Floor keep

Active leaf
G1 SVA Active leaf lock
G2 Spindle depending on SVA lock selected
G3 PHA 2501 VB
G4 PHA Connecting rod
G5 PC Profile cylinder
G6 four+ External fitting, depending on SVA lock selected



Essential requirement: The door can always be opened from the inside (emergency escape function) and locks automatically after each closure (insurance-compliant lock).

G1: Determine the lock for the active door leaf

Access from outside only with a key ...	... and using a lever handle and/or electric access control systems	... and/or electric access control systems or automation
Without wiring (mechanical solution)	Electrically monitored emergency-escape lock	Electrically unlockable monitored external lever handle	Motor lock, can be electrically unlocked and monitored e.g. in bus system (DCW®/CAN), SafeRoute or ED 100/250
SVA 5xxx Components, see SVP 5xxx	**SVA 4xxx** Components, see SVP 4xxx	**SVA 6xxx** Components, see SVP 6xxx	**SVA 2xxx / SVA 2xxx F** Components, see SVP 2xxx

S1: Select the lock for the passive door leaf depending on the active leaf lock

Possible combinations SVA active door leaf locks/SVI passive door leaf locks

	SVI 5xxx Without wiring (mechanical solution)	**SVI 4xxx** Electrically monitored emergency-escape lock	**SVI 2xxx F** Motor lock, can be electrically unlocked and monitored e.g. in bus system (DCW®/CAN), SafeRoute or ED 100/250
SVA 5xxx	●	○	–
SVA 4xxx / SVA 6xxx	●	●	–
SVA 2xxx / SVA 2xxx F	●	●	●

● Compatible ○ Optional – Not possible

		SVA active door leaf					SVI passive door leaf		
		SVA 5000	SVA 4000	SVA 6000	SVA 2000	SVA 2000 F	SVI 5000	SVI 4000	SVI 2000 F
Approvals	Fire and smoke doors	●	●	●	●[2]	●	●	●	●
	DIN EN 179/DIN EN 1125	●	●	●	●	●	●	●	●
Emergency escape functions	Door opening from inside via lever handle/pushbar	●	●	●	●	●	●	●	●
	Forced closure function (C)	–	–	●	–	–	–	–	–
	Panic function (E) with lever handle/knob set	●	●	–	●	●	–	–	–
Unlock	From outside with key	●	●	●	●	●	–	–	–
	From outside via lever handle after electrical release (integration in access control systems)	–	–	●	–	–	–	–	–
	– Automatic reset of the release when the door fails to open	–	–	●	●	●	–	–	●
	– Adjustable unlock or relock time	–	–	–	●	●	–	–	–
	– Permanent door release [3]	–	–	–	●	●[5]	–	–	●[4]
	Permanent access possible[1]	–	–	●	–	–	–	–	–
	Motor lock (suitable for automatic doors)	–	–	–	●	●	–	–	●
	Automatic switching off of permanent open/ permanent door release if there is a power failure	–	–	●	○[3]	○[3] [5]	–	–	–
	Suitable for electronic cylinders	●	●	●	●	●	–	–	–
Surveillance	Message "Door open/closed"	–	●	●	●	●	–	–	–
	Message "Door locked/unlocked"	–	●	●	●	●	–	●	●
	Message "Lever handle operation/ emergency escape function"	–	●	●	●	●	–	●	●
	Message "Cylinder locking"	–	●	●	●	●	–	–	–
	Message "Extension rod"	–	–	–	–	–	–	●	●
	Sabotage line	–	●	●	●	●	–	–	–
	DCW®/CAN bus interface	–	–	–	●	●			●
Break-in protection	Insurance compliant locking (dual-point locking device)	●	●	●	●	●	●	●	●
	Mechanical self-locking	●	●	●	●	●	●	●	●
Mode of operation	Mechanical (without wiring)	●	–	–	–	–	●	–	–
	Mechanical with electrical monitoring	–	●	●	–	–	–	●	–
	Motorized unlocking	–	–	–	●	●	–	–	●
	Outside and inside lever handle simultaneously electric engageable / disengageable	–	–	●	–	–	–	–	–
Miscellaneous	Mechanical process control	●	●	●	●	●	●	●	●
	Electronic sequential control	–	–	–	●	●	–	–	●

● Yes – No ○ Optional

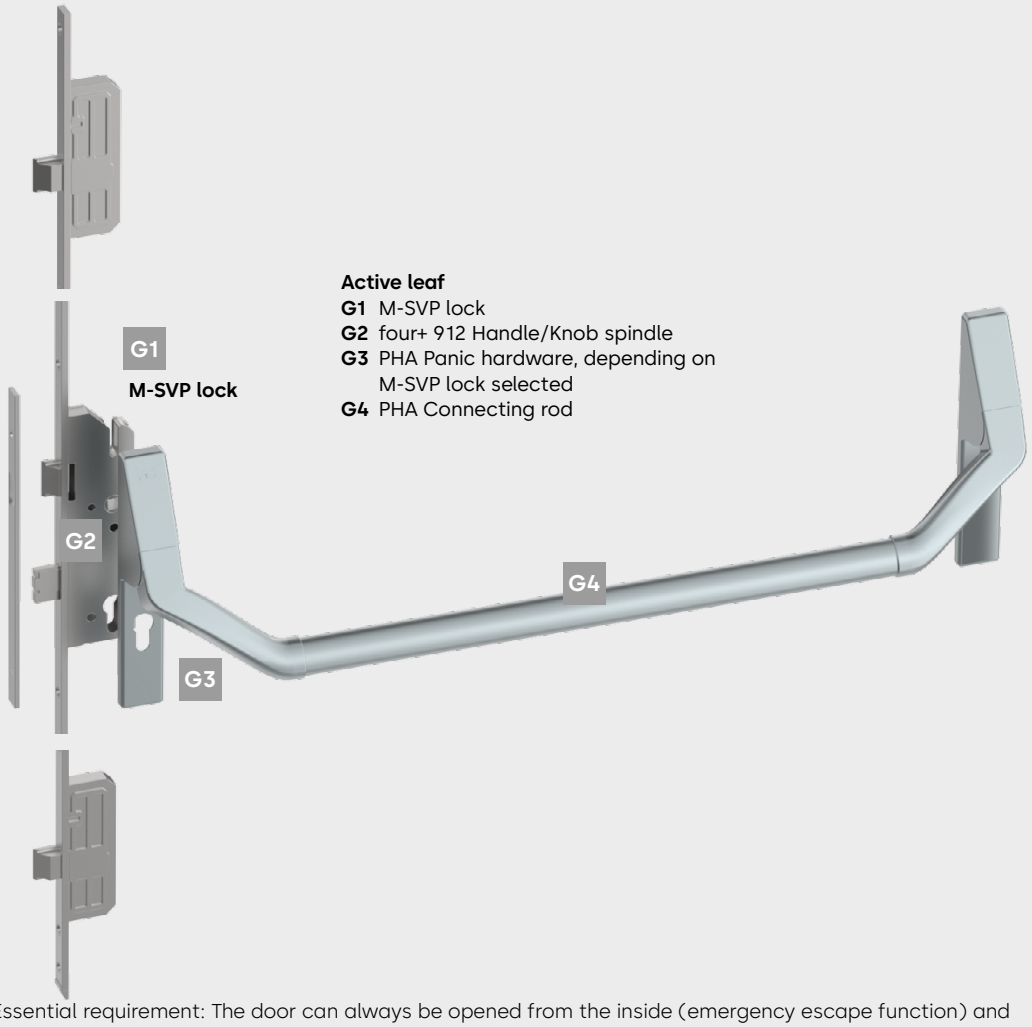
[1] PERMANENT OPEN function also permissible on fire and smoke doors, as the doors have a tumbler in case of a fire.
[2] For fire and smoke doors in conjunction with the PR module (emergency power buffer).
[3] In fire and smoke doors not approved for permanent door release, as approval is not guaranteed in the event of a fire.
[4] Depending on the SVA lock used on the active leaf.
[5] Only in combination with ED 100/250, SVP S3x / S4x / S5x or SafeRoute.

For detailed information on lock variants, dimensional drawings and order numbers, please refer to the 'Self-locking panic mortise locks SVP, SVA/SVI, M-SVP' brochure.

F Certificate of suitability
The SVP/SVI locks with automatic locking action have been approved and quality-tested by the notified body MPA in Dortmund. An approval or verification of suitability in conjunction with the respective fire and smoke door may be required.

The SVA/SVI locks in combination with lever handles and panic bars from various manufacturers have been certified according to EN 179 "Emergency exit devices operated by a lever handle or push pad for escape route doors" and EN 1125 "Panic exit devices operated by a horizontal bar", and therefore carry the CE mark of conformity CE.

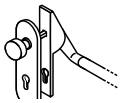
Individual multi-point locking system configuration
Selection of M-SVP lock for 1-leaf doors



Active leaf
G1 M-SVP lock
G2 four+ 912 Handle/Knob spindle
G3 PHA Panic hardware, depending on M-SVP lock selected
G4 PHA Connecting rod

Essential requirement: The door can always be opened from the inside (emergency escape function) and locks automatically after each closure (insurance-compliant lock).

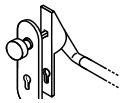
Access from outside only with a key ...



Without wiring (mechanical solution)

M-SVP 5xxx
+ PHA 2501 VB
+ PHA Connecting rod
+ four+ 912 Handle/Knob spindle
+ four+ 204 Knob

... and/or electric access control systems or automation



Motor lock, can be electrically unlocked and monitored

M-SVP 3xxx without bus system
+ PHA 2501 VB
+ PHA Connecting rod
+ four+ 912 Handle/Knob spindle
+ four+ 204 Knob
+ M-SVP 3000 control and dormakaba KÜ/KS cable loop

M-SVP 22xx with bus system (DCW®/CAN), SafeRoute or ED 100/250
+ PHA 2540 VB
+ PHA Connecting rod
+ four+ 912 Handle/Knob spindle
+ four+ 204 Knob
+ dormakaba KÜ/KS cable loop

	M-SVP 5000 with PHA 2501 VB	M-SVP 3000 with PHA 2501 VB	M-SVP 2200 DCW® with PHA 2540 VB
3-point locking	●	●	●
Rotating bolts and sliding bolts	–	–	●
Latch bolts	●	●	–
Motorised automatic locking action	–	–	●
Mechanical locking	●	●	–
Motorised unlocking via access control	–	●	●
Mechanical unlocking via the lever handle (emergency escape function)	●	●	●
Mechanical unlocking via profile cylinder	●	●	●
Suitable for electronic cylinders	●	●	●
Free wheel cam cylinders (forced disengagement required)	–	–	●
Integration in access control systems	–	●	●
Permanent door release (lock latch and all deadbolts retracted)	–	●	●
Day latch function (deadbolt retracted, lock latch deployed)	–	–	●
Message "Door open/closed"	–	●	●
Message "Door locked/unlocked"	–	–	●
Message "Handle operation/panic function"	–	–	●
DCW® interface, can be directly integrated in ED	–	–	●
Adjustment range Relocking time	–	–	●
Automatic reset of the enabling when the door fails to open	–	●	●
Approval in accordance with DIN EN 179	●	●	●
Approval in accordance with DIN EN 1125	●	●	●
Approved for fire and smoke doors	●	●	●

● Yes – No

For detailed information on lock variants, dimensional drawings and order numbers, please refer to the 'Self-locking panic mortise locks SVP, SVA/SVI, M-SVP' brochure.

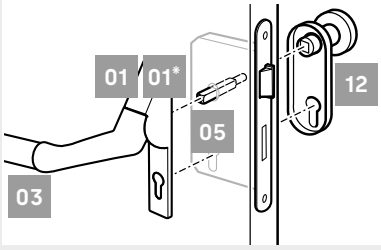
F Certificate of suitability
The M-SVP locks with automatic locking function are tested and quality-monitored by the notified body MPA in Dortmund. An approval or verification of suitability in conjunction with the respective fire and smoke door may be required.

The M-SVP locks are certified in conjunction with lever handles and panic bars from various manufacturers in accordance with EN 179 "Emergency exit devices operated by a lever handle or push pad" and EN 1125 "Panic exit devices operated by a horizontal bar", and therefore carry the conformity mark CE.

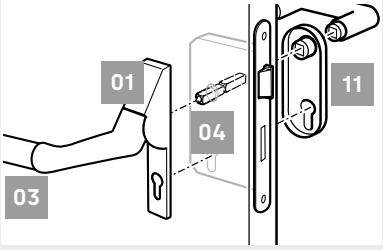
Custom Selection
Individual Items

Individual door or active door leaf lock

SVP-/ SVA 5xxx
SVP-/ SVA 4xxx
SVP-/ SVA 2xxx
SVP-/ SVA 2xxx F
M-SVP* xxxx

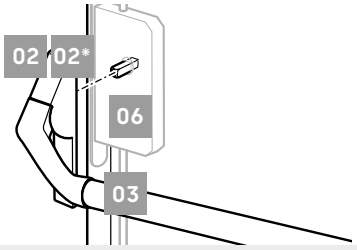


SVP-/ SVA 6xxx
SVP 7xxx Air



Passive door leaf lock

SVI 5xxx, SVI 4xxx, SVI 2xxx F
M-SVP-GK



PHA 2501
Tested according to EN 1125 with dormakaba emergency-escape locks. Door widths up to 1,500 mm, door height up to 2,999 mm, standard bar projection <= 100 mm according to EN 1125 grade 1, jam-free, no visible mounting screws. Suitable for the use of europrofile cylinders (PC) and knob cylinders up to a diameter of 36 mm. Silver-coloured.

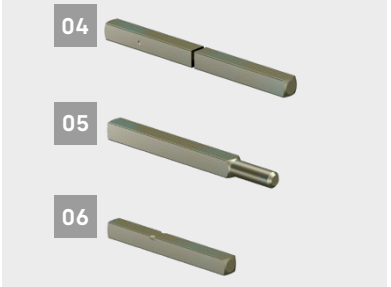
		Order no.
01	**PHA 2501 VB** Panic door fitting without connecting rod, can be used on narrow stile doors with SVP, SVA and M-SVP locks, distance 72 mm.	3501446230101
01*	**PHA 2540 VB** Panic door fitting without connecting rod, can be used on narrow stile doors with M-SVP 2200 locks, distance 72 mm.	3501446234001
02	**PHA 2501-PC0 (SVI)** Panic door fitting without connecting rod, can be used on inactive door leaf of double-leaf timber or narrow stile doors with SVI lock. With blind cover, for use without cylinder, silver-coloured.	3501445150101
02*	**PHA 2525** Panic door fitting without connecting rod, can be used on inactive leaf with M-SVP-GK inactive leaf locks.	3501445140101

* Recommendations apply to locks with profile cylinder PC and a distance A of 72 mm for timber doors.

PHA connecting rods
for PHA 2500, door widths up to 1500 mm, silver.

		Order no.
03	**PHA 2104, Length 830 mm** for door widths up to 1000 mm	35014 21040001
	PHA 2105, Length 1130 mm for door widths up to 1300 mm	35014 21050001
	PHA 2106, Length 1330 mm for door widths up to 1500 mm	35014 21060001

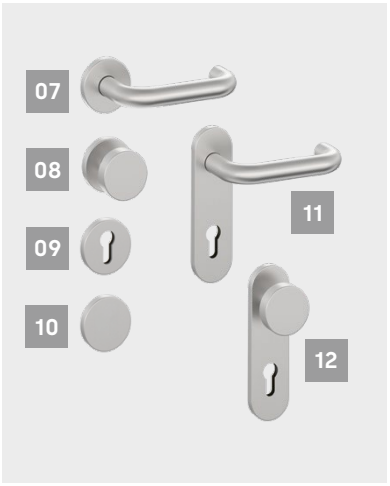
FP spindles 9 x 9 mm		**Order no.**
04	**PHS 5S** Split spindle, 9 mm square, consisting of inside part 9 x 9 x 38.5 mm and a set of outside parts 9 x 9 x 46 mm, 9 x 9 x 53 mm, 9 x 9 x 56.5 mm and 9 x 9 x 60 mm, for use with locks with split follower (SVA 6xxx, SVP 6xxx, SVP 7xxx Air) and PHA 2501	3501478630501
05	**four+ 912 Handle/Knob spindle VB, 9 x 9 x 105 mm** for 64–72 mm door thickness in combination with four+ 104/204 lever handle/knob set(EN 179)	71000616
06	**114FS spindle, 9 x 9 mm** For inactive leaf sets, 105 mm (individually cut to length)	90050052907



four+ door fittings for timber doors NEW
Door fittings to EN 179, ER matt stainless steel finish

		Order No.
07[1]	**four+ 104 Lever handle on round rosette** 9 mm, EN 179, non-threaded side, without spindle	71000105
08[1]	**four+ 204 Knob on round rosette** Non-threaded side, without handle/knob spindle	71000110
09[1]	**Key rosette, round** with PC punching, non-threaded side	71000100
10[1]	**Blind rosette, round** Rosette for doors without locking function, non-threaded side	71000101
11[2]	**four+ 104 Lever handle on short plate** PC punching, 9 mm, threaded side, without spindle	71000120
12[2]	**four+ 204 Knob on short plate** PC punching, 9 mm, threaded side, without handle/knob spindle	71000130

[1] Door fittings are screwed directly into the door leaf from the outside.
[2] Door fittings are screwed through from the inside (panic side).



Rod lock system for SVI locks

SVI set
Accessories required for installing SVI locks and extension rods. Contains: bottom deadbolt guide plate, mounting aid lock/drive deadbolt, dormakaba torque tool, switch lock and top frame strike plate.

		Article no.
13	**SVI set 20mm** Installation on rebate doors with angle strike plate. 20 mm top frame strike plate.	70010291
	SVI set 24mm Installation on non-rebated or narrow stile doors with lipped or flat strike plates. 24 mm top frame strike plate	70010290

Extension rod set
Extension rod set consisting of top and bottom extension rods. Used in connection with SVI locks.

		Article no.
14	**SVI TRS 25** Extension rod set for doors up to 2.5 m	70932305
	SVI TRS 35 Extension rod set for doors up to 3.5 m	70932306

Floor keep
Floor keep for locking device of the bottom extension rod on the passive door leaf. Required for emergency exit devices according to EN 1125.

		Article no.
15	**PHA 2122-0 (0 mm)**	3501421220000
	PHA 2122-2 (-2 mm)	3501421222000
	PHA 2122-4 (-4 mm)	3501421224000
16	**PHA 2121 +/-2** Flexible floor keep. Flexibly adjustable (+/- 2 mm)	3501421210000

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations.

At dormakaba, we are dedicated to find sustainable solutions that reduce the environmental impact of both our operations and our products. To ensure transparency regarding our products' environmental impacts, we offer credentials such as Environmental Product Declarations (EPD), Health Product Declarations (HPD), and Recycled Content Certificates. These sustainability-related credentials provide insights into energy efficiency, material composition, recyclability, and compliance, empowering our customers to make informed choices and support their own sustainability objectives.

Download our sustainability-related product declarations and certifications here: https://www.dormakabagroup.com/en/sustainability/product-declarations

Our offering

Access Automation Solutions

Entrance Automation
Entrance Security

Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems

Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems

Services

Technical Support
Installation and commissioning
Maintenance and Repair

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Subject to technical modifications.

dormakaba.com

dormakaba
International Holding AG
Hofwisenstrasse 24
CH-8153 Rümlang
T +41 44 818 90 11
info@dormakaba.com
dormakaba.com