

PHA 2500

Panic Hardware
for timber doors

PHA 2500 PANIC HARDWARE SYSTEM



PHA 2500 combined with Panic mortice lock for single- and double-leaf doors



PHA 2500 combined with Emergency escape motor lock with automatic locking action SVP 2000 for single-leaf doors

INNOVATIVE, ADVANCED HARDWARE SYSTEM FOR EMERGENCY EXITS

With its PHA 2500 system, DORMA is able to offer a high-quality panic exit device on the basis of an integrated emergency escape lock for single- and double-leaf timber doors. The system is certified according to EN 1125 and carries the CE mark and is ideal for narrow stile doors in emergency exits in which safety, security, reliability and aesthetic elegance are a must. This Panic Hardware system constitutes a further building block in the DORMA product portfolio for the safe control of emergency escape

routes. It satisfies in full the demands placed on emergency exit devices used in public facilities such as hospitals, universities and schools, concert halls, shopping malls, hotels and administrative buildings. With this series, moreover, the external fitting can be provided in form of a DORMA Premium project door furniture to EN 1906, EN 1634-1 and DIN 18273.

F Approval certification

The panic exit devices in the DORMA 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 check doors may be necessary – check local regulations.

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PRACTICAL PANIC HARDWARE

IDEAL EXIT DEVICES FOR TIMBER DOORS

With its series PHA 2500 (touch bar), the DORMA Premium project door furnitures and corresponding complementary accessories, DORMA is able to offer a high-performance panic hardware system ideal for both

internal and external timber doors. The integrated Panic mortice lock/Emergency escape motor lock enables the door to be engaged by both latch and bolt.

The benefits at a glance

For the trade

- Certified system in one complete pack.
- One actuation touch bar for all door widths.
- Suitable for use in conjunction with stock DORMA Premium project door furnitures.
- 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.
- All DORMA Premium project door furnitures compliant with EN 1906, EN 1634-1 and DIN 18273 can be used.

For the fabricator/installer

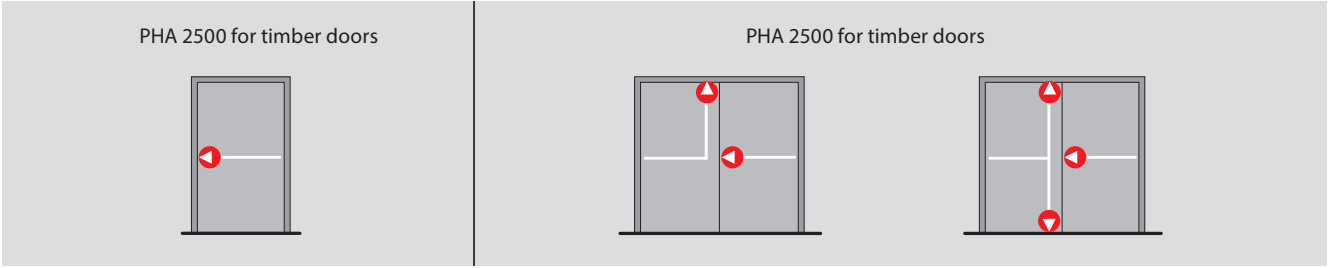
- Full range of expertise from a single source.
- Easy to install.
- Readily adaptable to different door widths and heights.
- Excellent range of accessories.

For the user

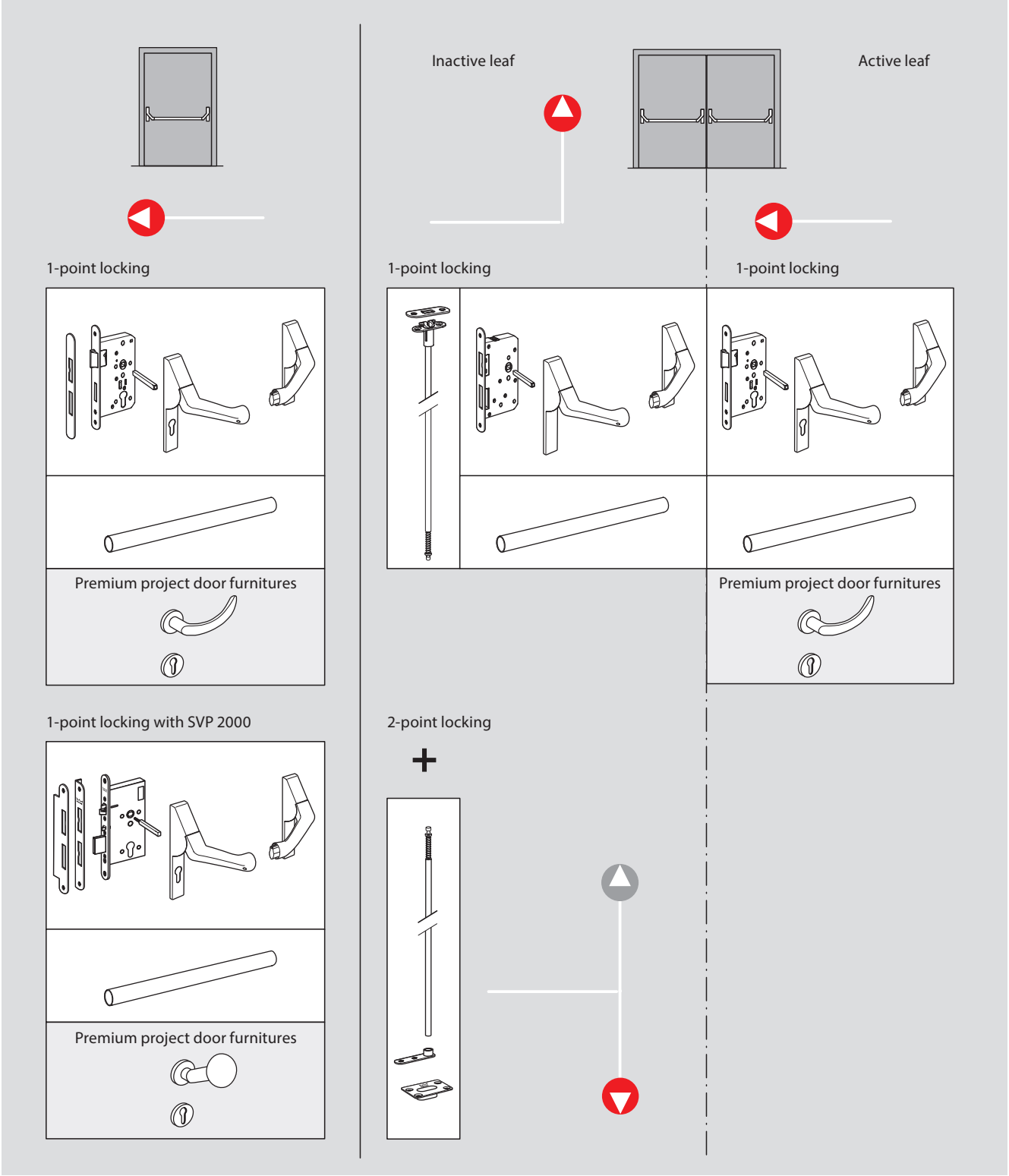
- Optimum safety – even under pre-load, the door can be opened from anywhere across its full width.
- Single-source supply for a full range of customer services.

Daten und Merkmale		PHA Serie 2500		
		single-leaf door	double-leaf door	single-leaf door automatic locking
Standard doors in emergency escape routes		3	3	3
Fire and smoke check doors		3	3	3
Door width ¹⁾	≤ 1300 mm	3	–	3
	≤ 2600 mm	–	3	–
Door height ¹⁾	≤ 2500 mm	3	3	3
Max. door leaf weight in kg ¹⁾		200	200	200
Handling	DIN-R	3	3	3
	DIN-L	3	3	3
Projection from face ≤ 100 mm		3	3	3
Panic mortice lock		3	3	–
Emergency escape motor lock with automatic locking action SVP 2000		–	–	3
Backset (mm)		65/80	65/80	55/60/65/80
Europrofile cylinder centres (mm)		72	72	72
Europrofile cylinder to DIN 18252		3	3	3
Suitability for use of an electronic EP cylinder		§	§	§
Lock functions: Transit (E) / Transmission(B) / Change-over (D)		3/3/3	3/3/3	3/–/–
Forend width (mm)		20/24	20/24	20/24
Locking rod with switching lock (inactive leaf)		–	3	–
Powder-coated silver		3	3	3
Stainless steel finish		3	3	3
External fitting (Premium project door furnitures)		§	§	§
Tested and certified to EN 1125		3	3	3
CE-mark for construction projects		3	3	3
ISO 9000		3	3	3

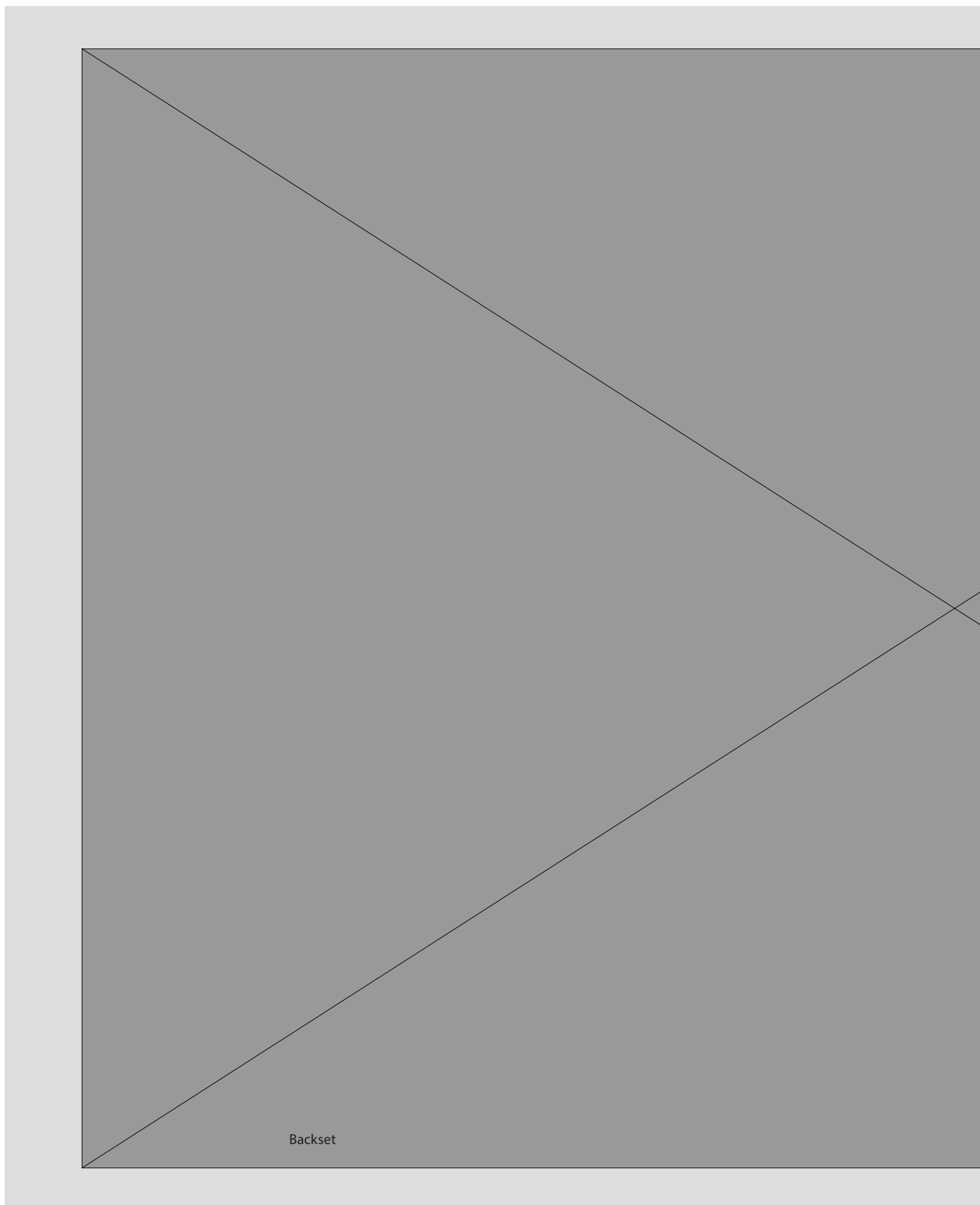
3 = yes – = no § = option ¹⁾Data correspond to the maximum application scope of EN 1125.

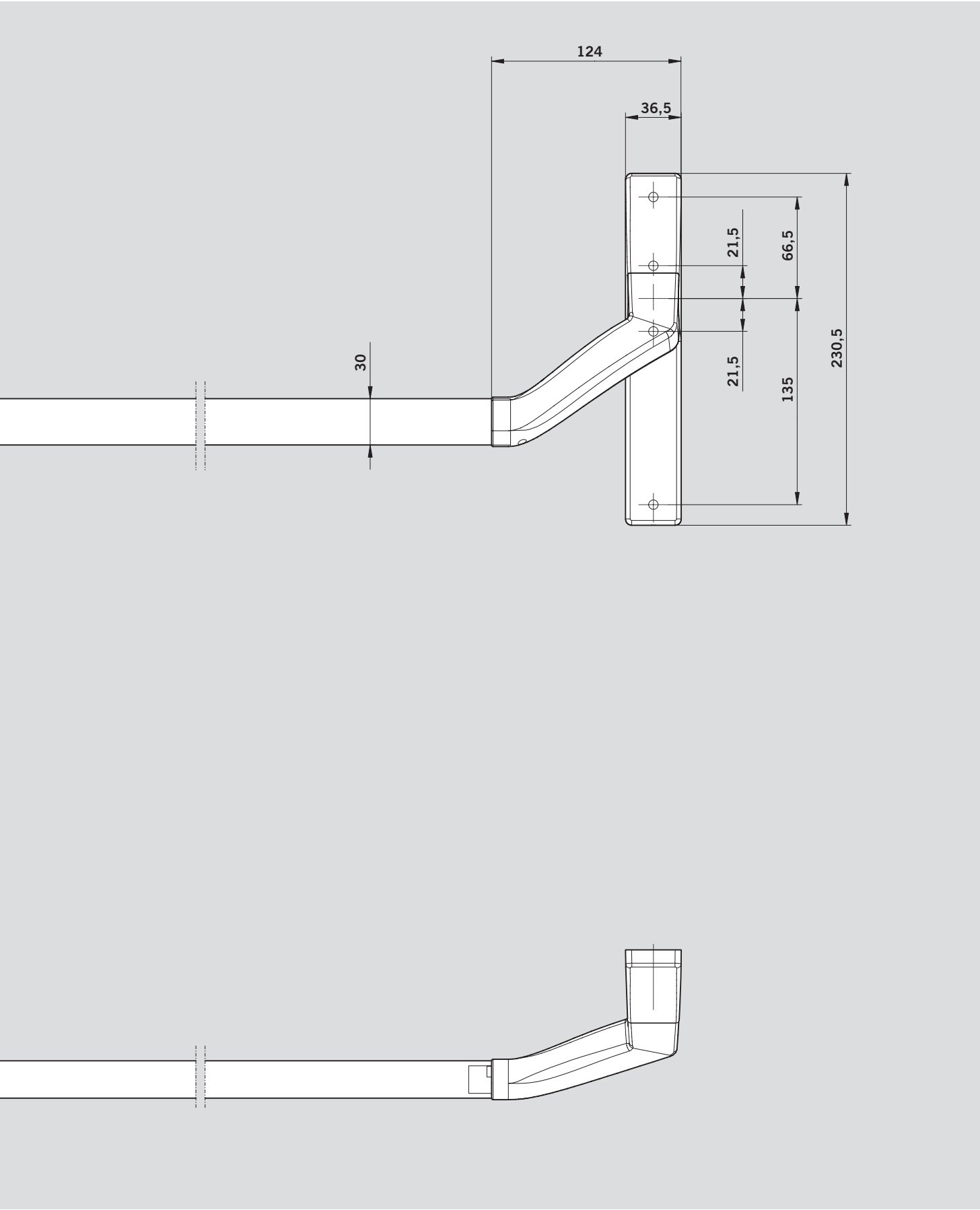


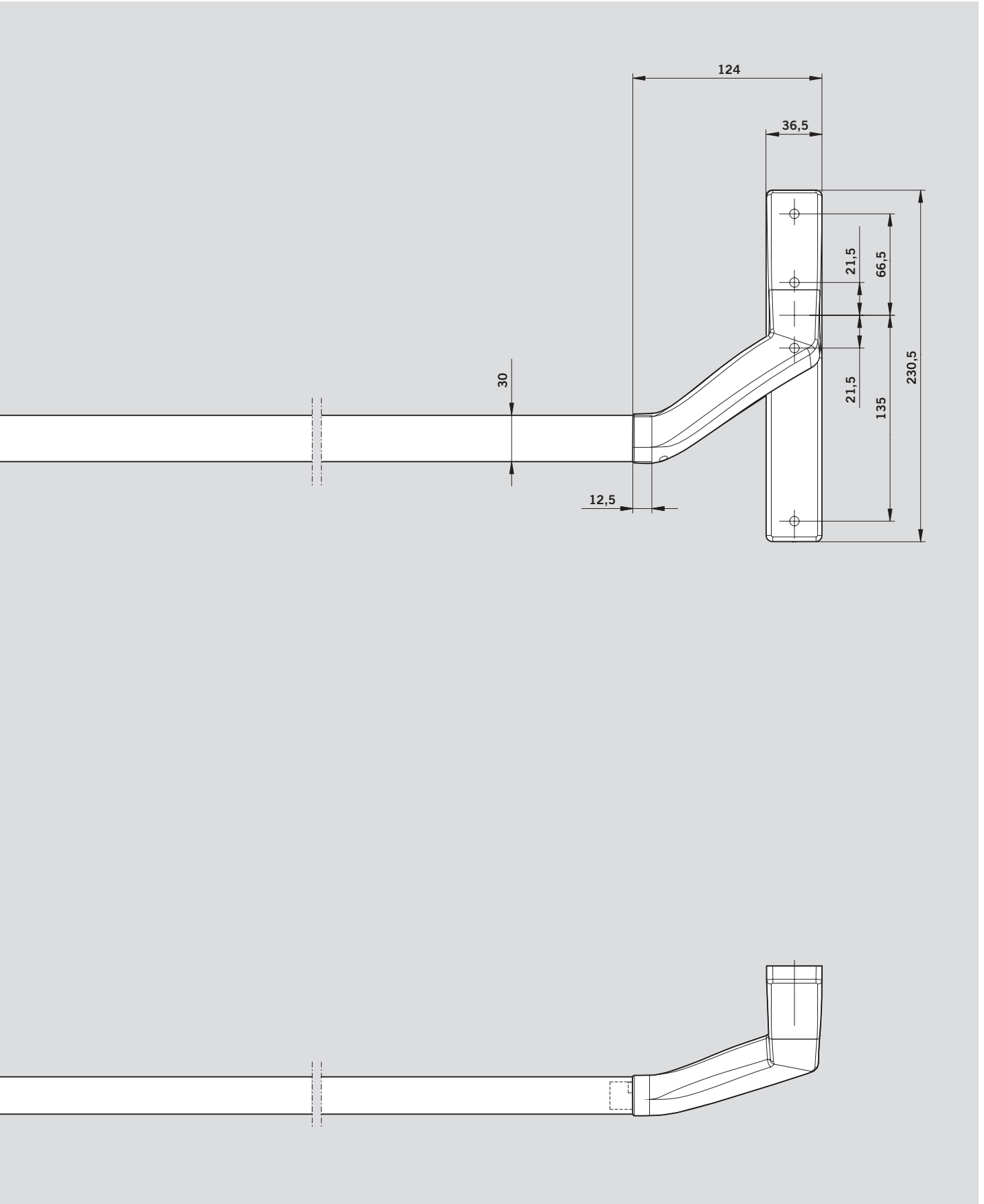
Panic Hardware system PHA 2500 for timber doors



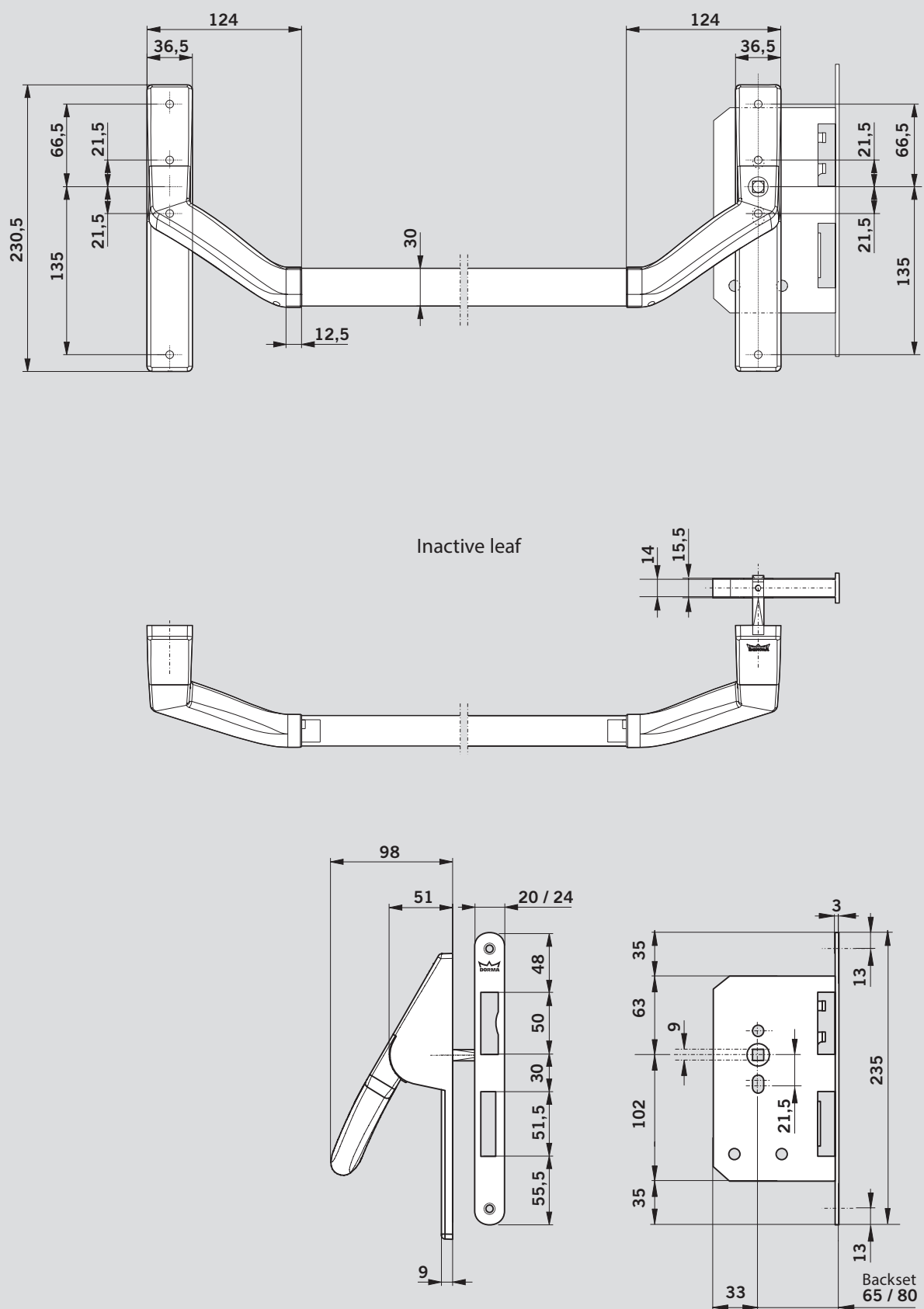
SINGLE-LEAF DOORS WITH PANIC MORTICE LOCK

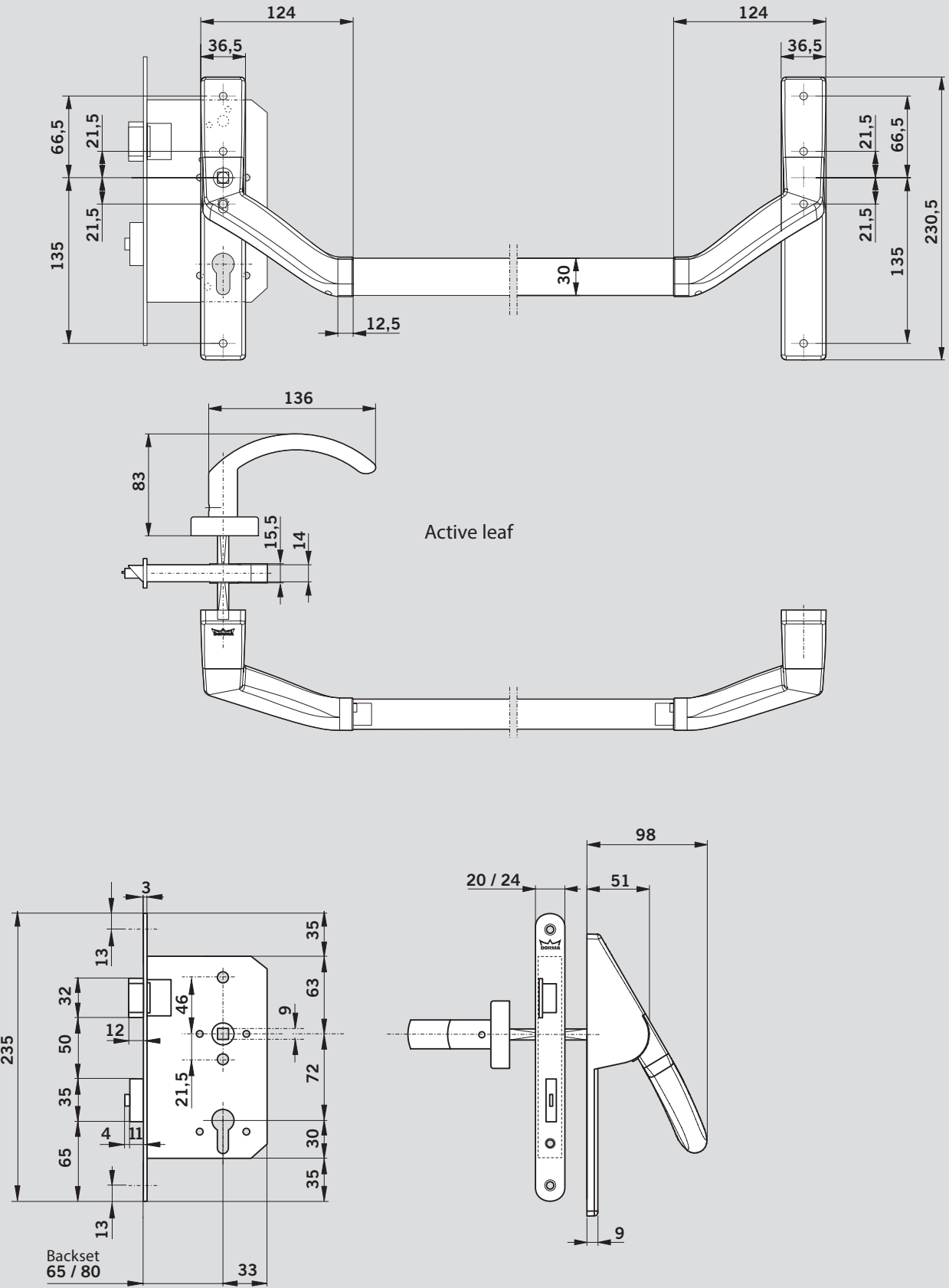




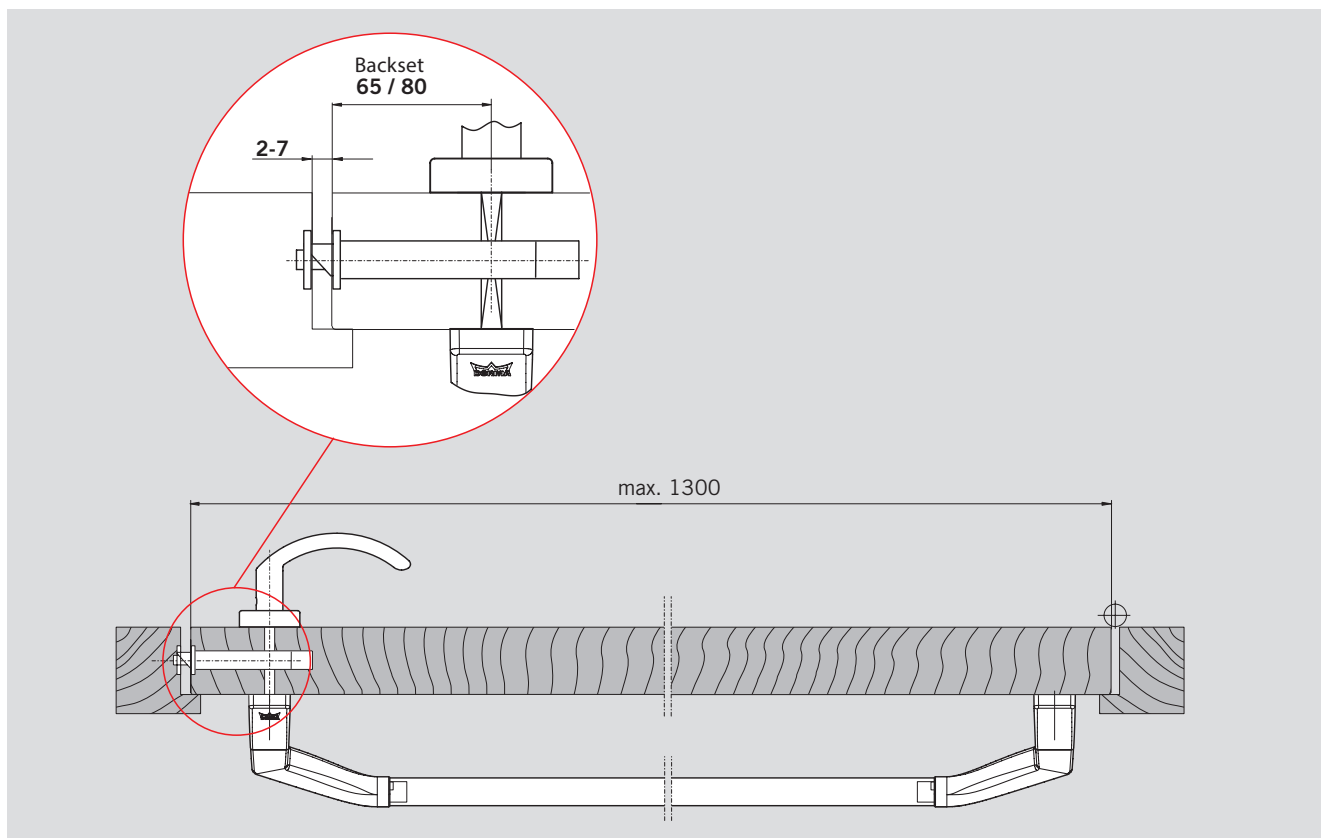


DOUBLE-LEAF DOORS WITH PANIC MORTICE LOCK

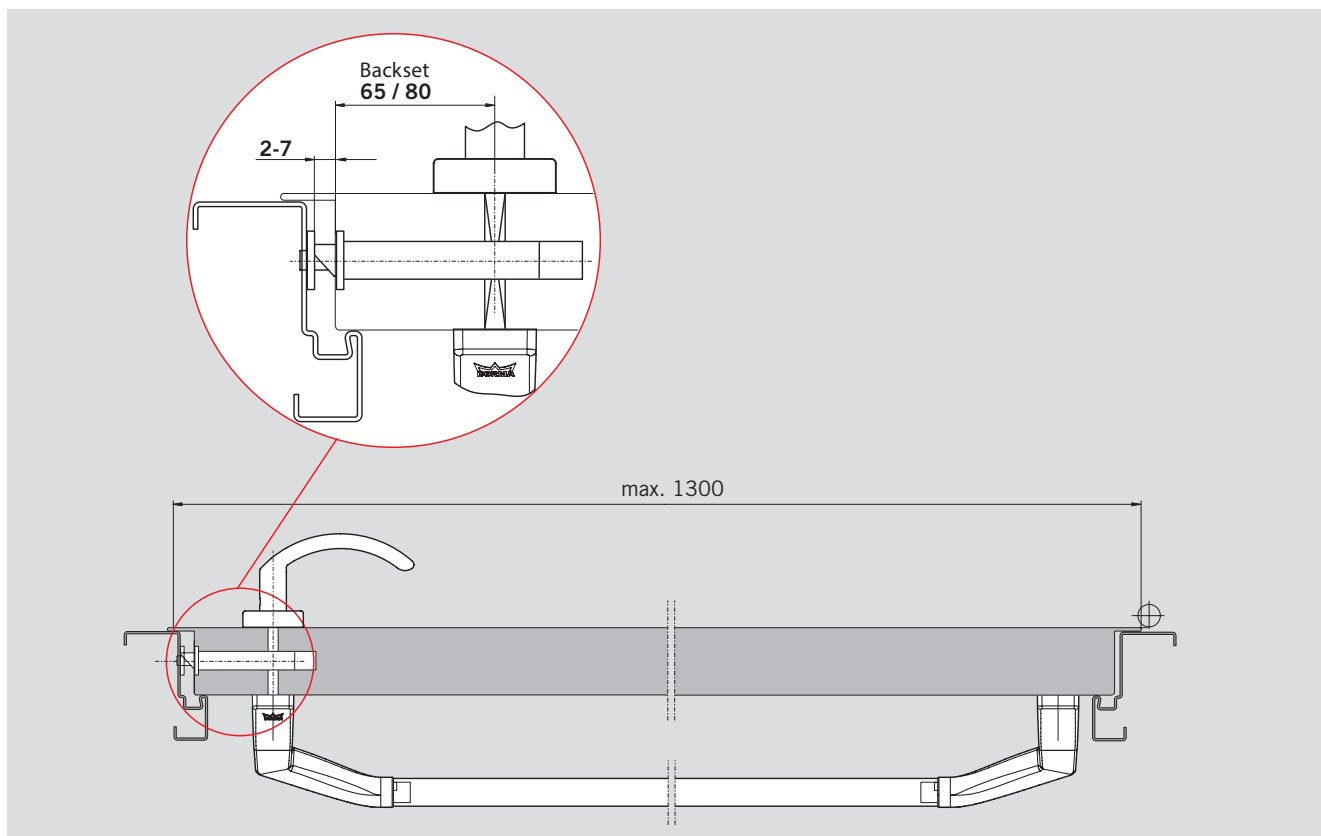




SINGLE-LEAF DOORS WITH PANIC MORTICE LOCK

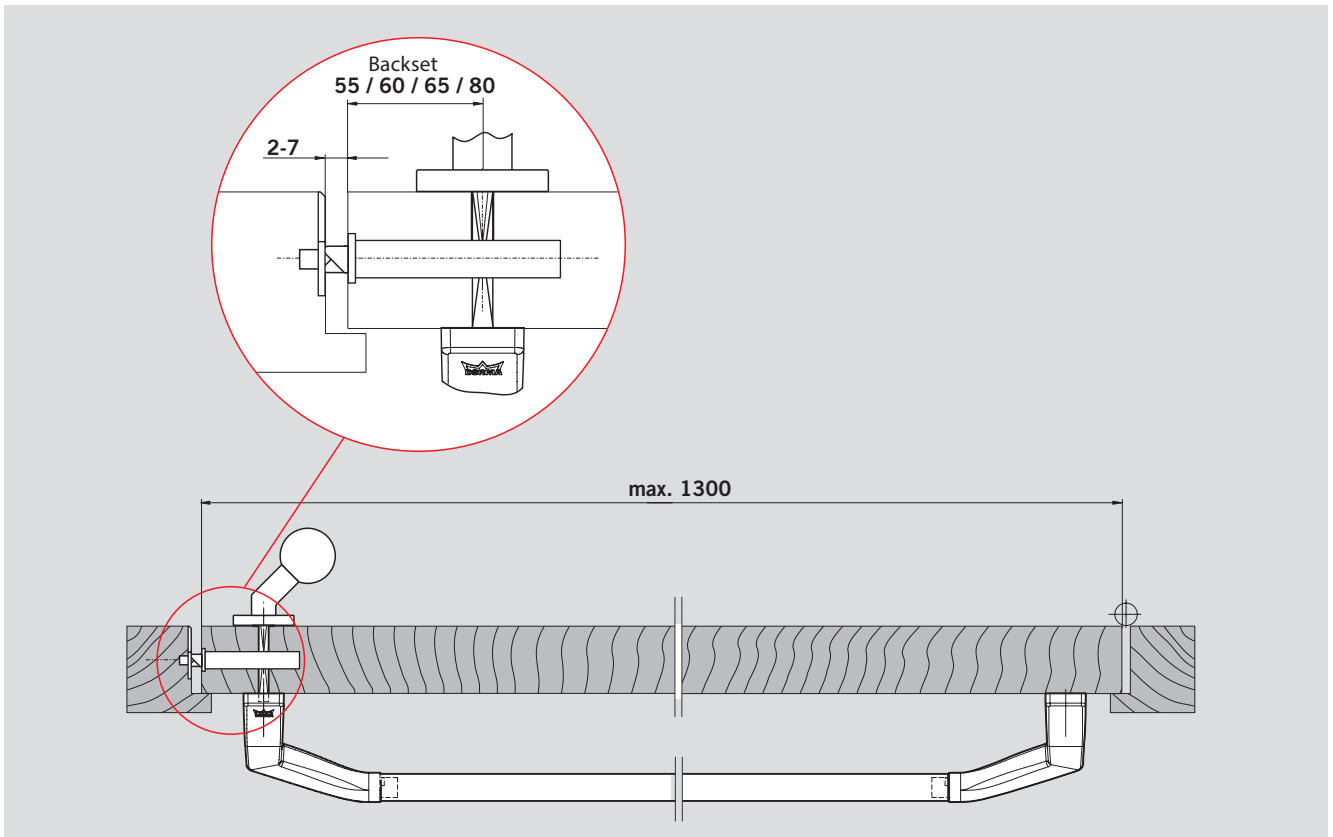


Horizontal locking, wooden door (Note advisory on page 22)



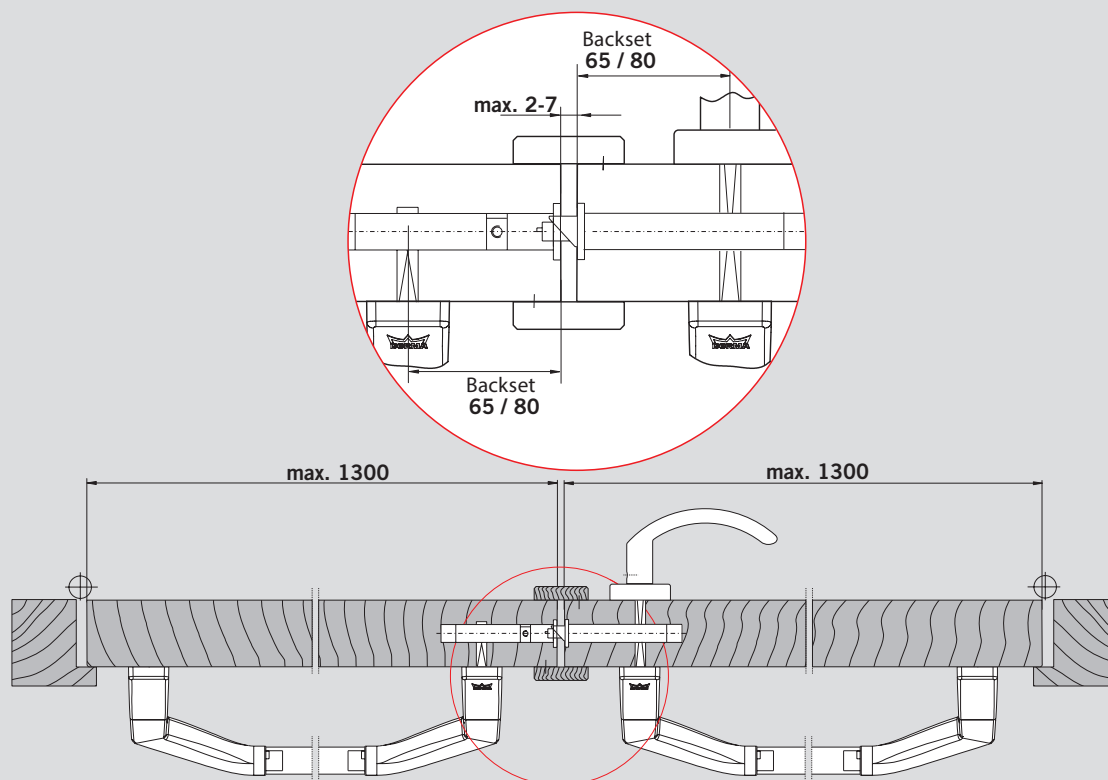
Horizontal locking, sheet steel door (Note advisory on page 22)

SINGLE-LEAF DOORS WITH SVP 2000

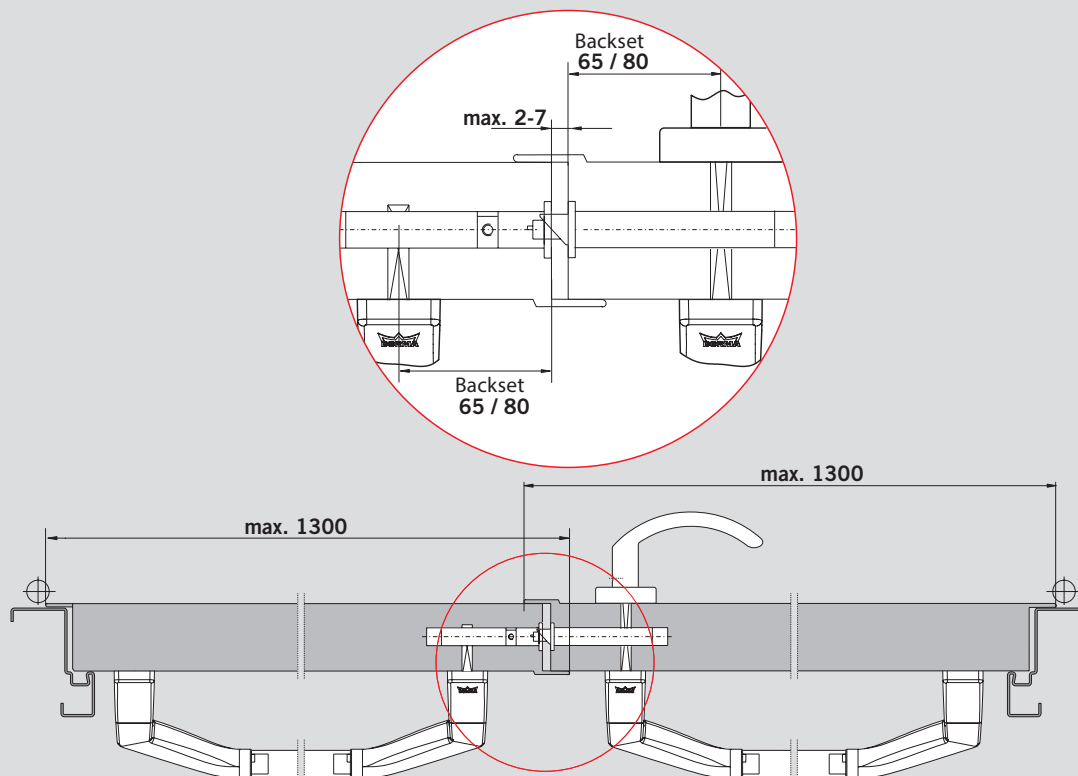


Horizontal locking, wooden door (Note advisory on page 22)

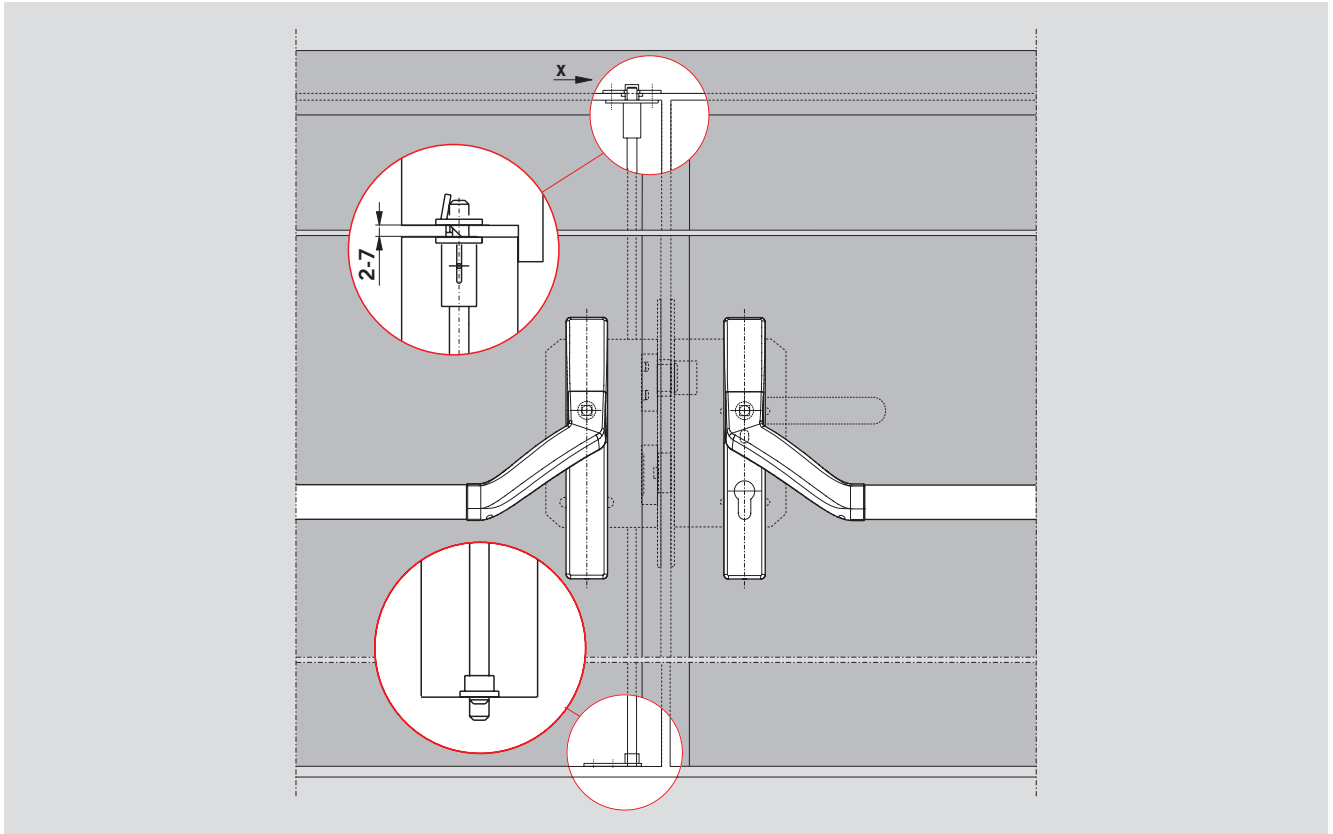
DOUBLE-LEAF DOORS WITH PANIC MORTICE LOCK



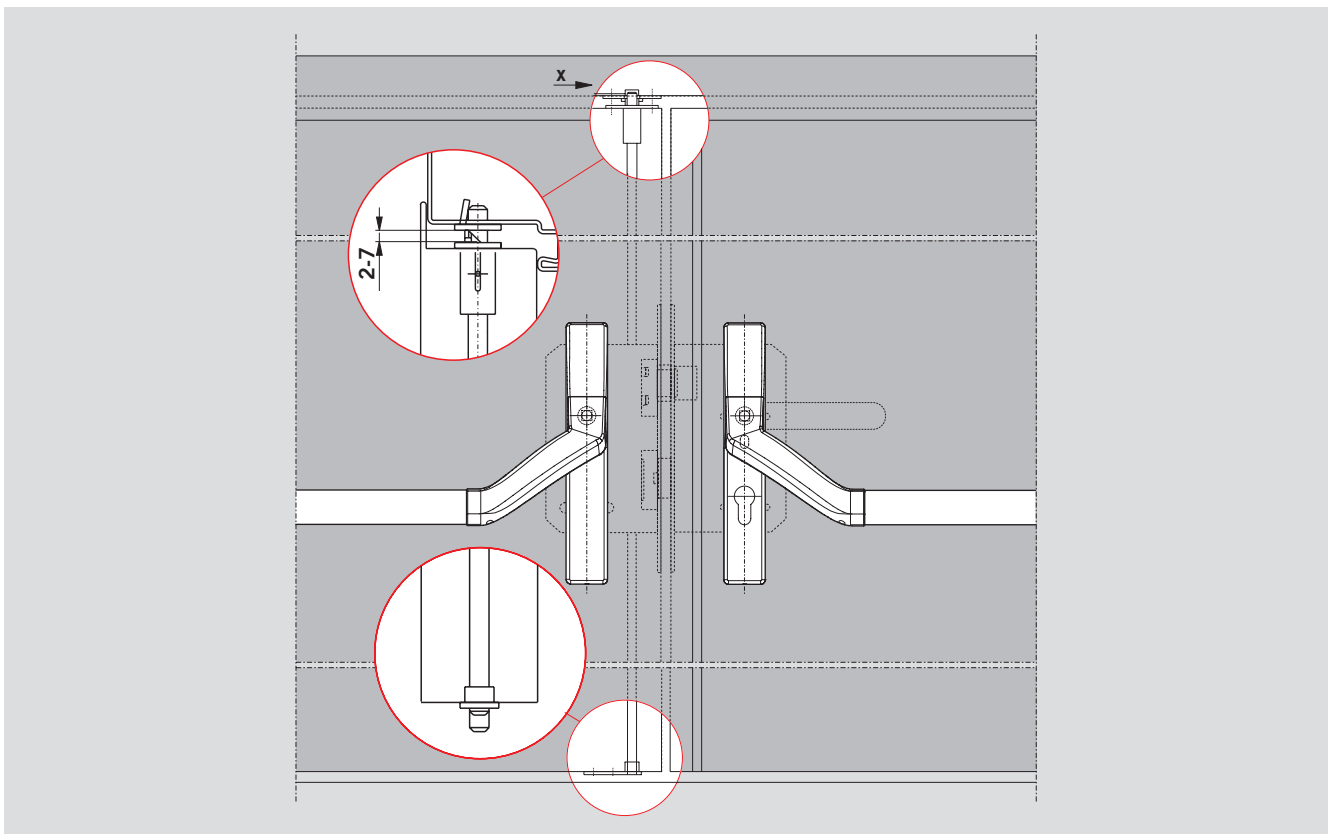
Horizontal locking, wooden door (Note advisory on page 22)



Horizontal locking, sheet steel door (Note advisory on page 22)

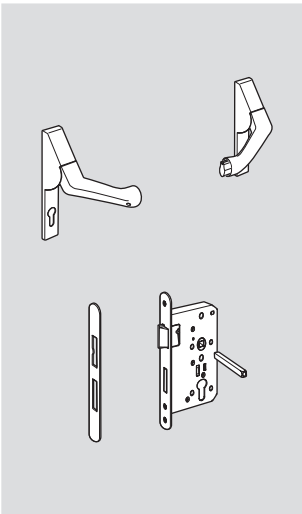
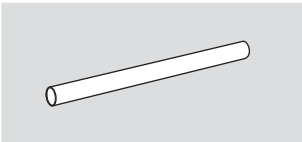


Vertical locking, wooden door – For panic exit devices according to EN 1125 a floor keep is necessary (see page 19)



Vertical locking, sheet steel door – For panic exit devices according to EN 1125 a floor keep is necessary (see page 19)

SINGLE-LEAF DOORS WITH PANIC MORTICE LOCK

	Specification text	Order No.
	PHA 2500 VB, single-leaf Panic exit device for single-leaf timber doors, compliant with EN 1125, door widths up to 1300 mm; projection from face per category 2 ≤ 100 mm, nip-free design, no visible fixing screws. With panic mortice lock, backset of 65/80 mm and Y Mode of operation B / Change-over function Y Mode of operation D / Transit function Y Mode of operation E / Transmission function Prepared for installation of an electronic cylinder (Europrofile cylinder). Approved for use on fire and smoke check doors. Additional approval certification of the relevant fire and smoke check doors may be necessary – check local regulations. All products of the PHA 2500 series carry the CE mark.	
	Y Silver Y Stainless steel finish	35014 2621xx01 35014 2621xx04
	PHA 2105 Connecting rod for PHA 2500, door widths up to 1300 mm	
	Y Silver Y Stainless steel finish	35014 21050001 35014 21050004

xx = Variant lock function

Product	Handing	Backset	Lock function	Forend width 24 Order No. 35014	Forend width 20 Order No. 35014
 or timber doors king	L	65	D Transit	35014 262104xx	35014 262113xx
			E Transmission	35014 262105xx	35014 262114xx
			B Change-over	35014 262106xx	35014 262115xx
		80	D Transit	35014 262107xx	35014 262116xx
			E Transmission	35014 262108xx	35014 262117xx
			B Change-over	35014 262109xx	35014 262118xx
	R	65	D Transit	35014 262122xx	35014 262131xx
			E Transmission	35014 262123xx	35014 262132xx
			B Change-over	35014 262124xx	35014 262133xx
		80	D Transit	35014 262125xx	35014 262134xx
			E Transmission	35014 262126xx	35014 262135xx
			B Change-over	35014 262127xx	35014 262136xx

For description of lock functions see pages 20, 21

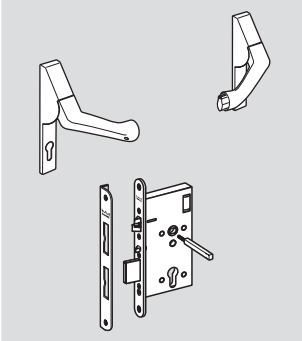
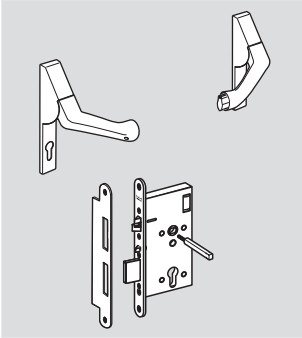
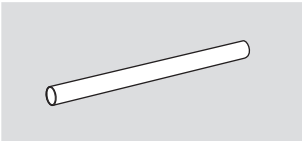
xx = Colour

01 = Silver

Lever handle spindles: Note advisory on page 22.

04 = Stainless steel finish

SINGLE-LEAF DOORS WITH SVP 2000

	Specification text	Order No.
	PHA 2500 VB with SVP 2000, single-leaf Panic exit device for single-leaf timber doors, compliant with EN 1125, door widths up to 1300 mm; projection from face per category 2 ≤ 100 mm, nip-free design, no visible fixing screws. With Emergency escape motor lock with automatic locking action SVP 2000 with transmission function, Backset 55/60/65/80 mm. Prepared for installation of an electronic cylinder (Europrofile cylinder). Approved for use on fire and smoke check doors. Additional approval certification of the relevant fire and smoke check doors may be necessary – check local regulations. All products of the PHA 2500 series carry the CE mark.	
	Y Forend 20 mm with rebated strike plate Y Silver Y Stainless steel finish	35014 2721xx01 35014 2721xx04
	Y Forend 24 mm with standard strike plate Y Silver Y Stainless steel finish	35014 2721xx01 35014 2721xx04
	PHA 2105 Connecting rod for PHA 2500, door widths up to 1300 mm Y Silver Y Stainless steel finish	35014 21050001 35014 21050004

xx = Variant lock function

Product	Handing	Backset	Lock function	Forend width 24 Order No. 35014	Forend width 20 Order No. 35014
 with SVP locking	L/R	55	E Transmission	35014 272113xx	
	L/R	60	E Transmission	35014 272114xx	
	L/R	65	E Transmission	35014 272115xx	
	L/R	80	E Transmission	35014 272116xx	
	L	55	E Transmission		35014 272101xx
	L	60	E Transmission		35014 272102xx
	L	65	E Transmission		35014 272103xx
	L	80	E Transmission		35014 272104xx
	R	55	E Transmission		35014 272105xx
	R	60	E Transmission		35014 272106xx
	R	65	E Transmission		35014 272107xx
	R	80	E Transmission		35014 272108xx

For description of lock functions see pages 20, 21

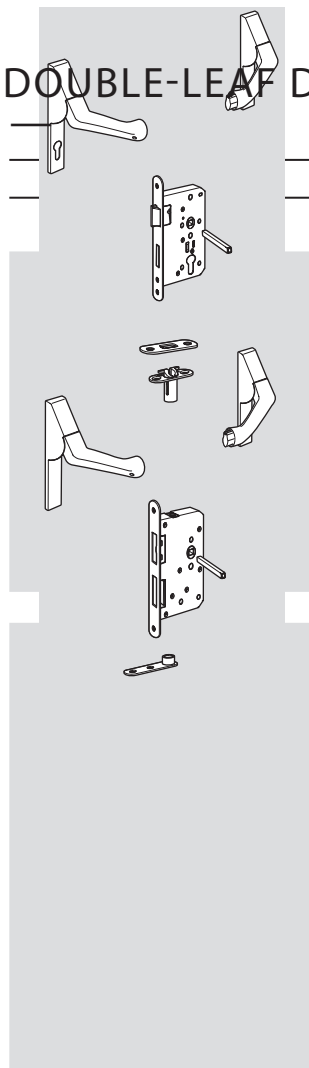
xx = Colour

01 = Silver

04 = Stainless steel finish

Lever handle spindles: Note advisory on page 22.

DOUBLE-LEAF DOORS WITH PANIC MORTICE LOCK



Specification text

Order No.

PHA 2500 VB TRS (locking rod at the top), double-leaf
Inactive leaf with locking rod at the top TRS and locking rod at the bottom TRB.

Panic exit device for double-leaf timber doors, compliant with EN 1125, door widths up to 2600 mm, door height up to 2500 mm; projection from face per category 2 ≤ 100 mm, nip-free design, no visible fixing screws. With panic mortice lock at the active-leaf, backset of 65/80 mm and

Y Mode of operation B / Change-over function

Y Mode of operation D / Transit function

Y Mode of operation E / Transmission function

Prepared for installation of an electronic cylinder (Europrofile cylinder). Lock case at the inactive leaf, backset of 65/80 mm, incl. switching lock and rod guide.

Approved for use on fire and smoke check doors.

Additional approval certification of the relevant fire and smoke check doors may be necessary – check local regulations.

All products of the PHA 2500 series carry the CE mark.

PHA 2560, Active leaf

Y Silver

35014 2622xx01

Y Stainless steel finish

35014 2622xx04

PHA 2570 TRS, Inactive leaf

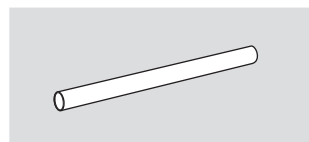
Y Silver

35014 2624xx01

Y Stainless steel finish

35014 2624xx04

xx = Variant lock function



PHA 2105 Connecting rod

for PHA 2560 and PHA 2570, for door widths up to 1300 mm

Y Silver

35014 21050001

Y Stainless steel finish

35014 21050004

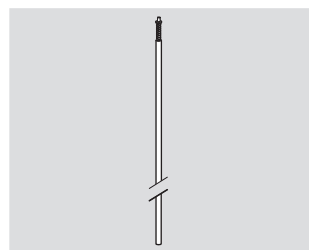


PHA 2160 locking rod at the top

for PHA 2570 TRS (Inactive leaf),

Tube Ø 10 mm, for door heights up to 2500 mm

35014 21600000

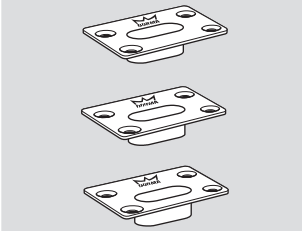
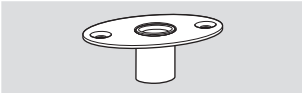
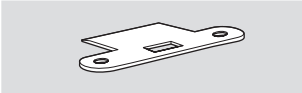


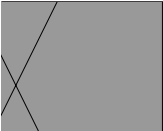
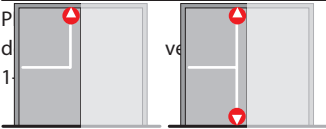
PHA 2161 TRB locking rod at the bottom

for PHA 2570 TRS (Inactive leaf),

Solid bar Ø 10 mm, lever handle heights 1050 mm

35014 21610000

	Specification text	Order No.
	PHA 2122 Floor keep for locking of the PHA 2161 TRB at the inactive leaf. Required for panic exit devices to EN 1125.	
	Model:	
	PHA 2122-0 (0 mm)	35014 21220000
	PHA 2122-2 (-2 mm)	35014 21222000
	PHA 2122-4 (-4 mm)	35014 21224000
	PHA 2121 Adjustable floor keep for locking of the PHA 2161 TRB at the inactive leaf. Required for panic exit devices to EN 1125.	35014 21210000
	PHA 7380 Strike plate (optional) for PHA 2160 TRS locking rod at the top	35014 73800000

Product	DIN	Backset	Lock function	Forend width 24 Order No. 35014	Forend width 20 Order No. 35014
	L	65	D Transit	35014 262204xx	35014 262213xx
			E Transmission	35014 262205xx	35014 262214xx
			B Change-over	35014 262206xx	35014 262215xx
		80	D Transit	35014 262207xx	35014 262216xx
			E Transmission	35014 262208xx	35014 262217xx
			B Change-over	35014 262209xx	35014 262218xx
	R	65	D Transit	35014 262222xx	35014 262231xx
			E Transmission	35014 262223xx	35014 262232xx
			B Change-over	35014 262224xx	35014 262233xx
		80	D Transit	35014 262225xx	35014 262234xx
			E Transmission	35014 262226xx	35014 262235xx
			B Change-over	35014 262227xx	35014 262236xx
	L	65	–	35014 262401xx	35014 262403xx
		80	–	35014 262402xx	35014 262404xx
	R	65	–	35014 262405xx	35014 262407xx
		80	–	35014 262406xx	35014 262408xx

For description of lock functions see pages 20, 21

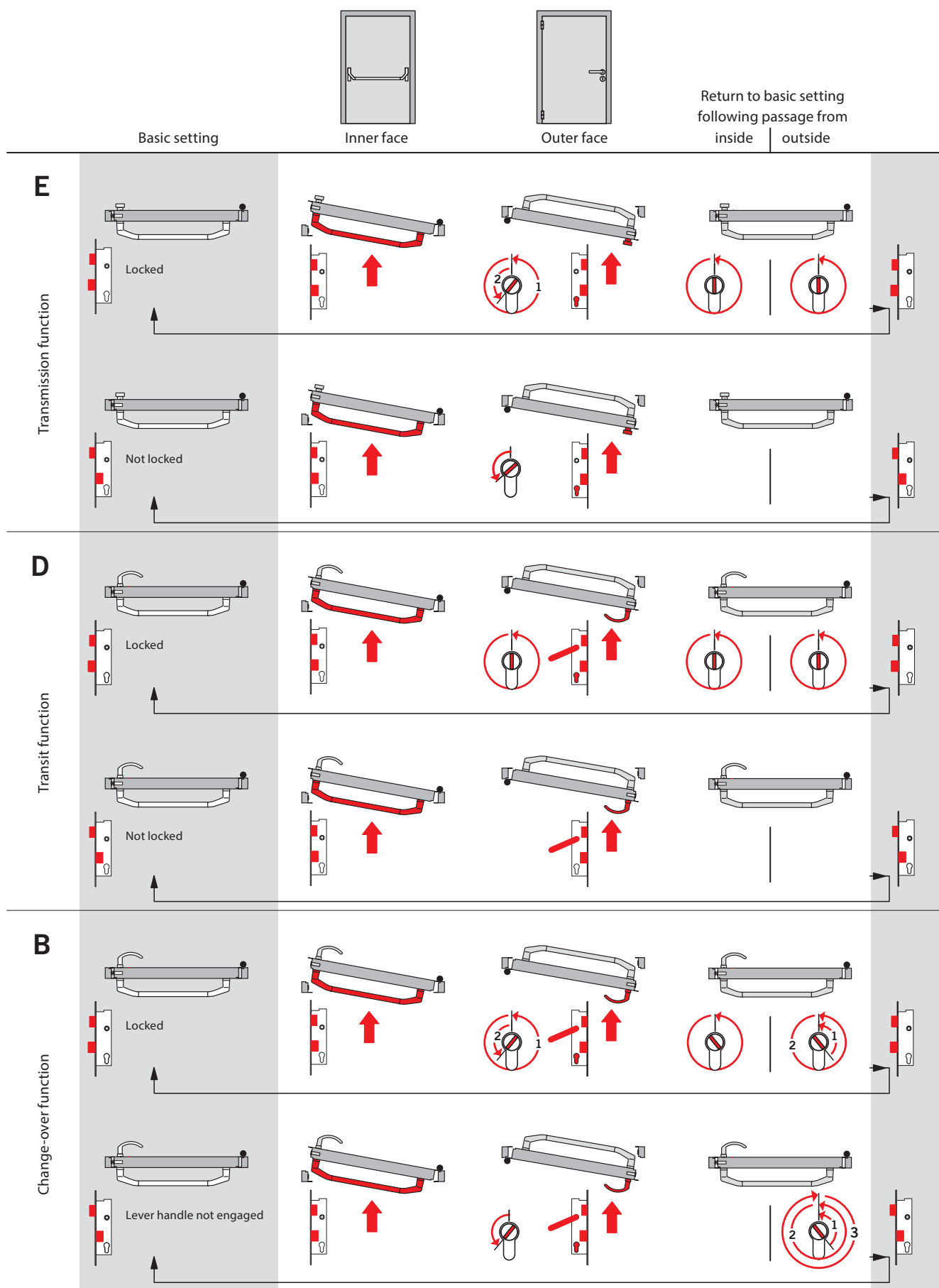
Lever handle spindles: Note advisory on page 22.

xx = Colour

01 = Silver

04 = Stainless steel finish

LOCK FUNCTIONS



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.

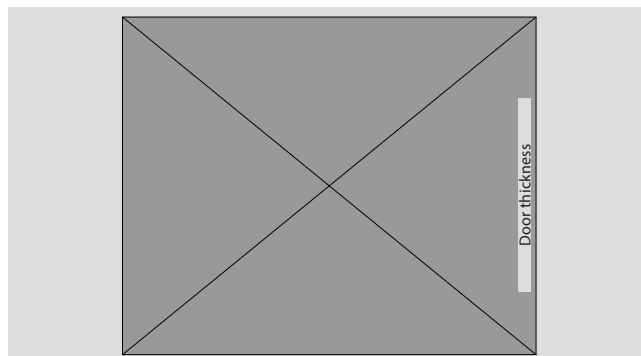
A lever handle is fitted to the outside face. The key can be used to retract the lock and engage the lever handle which can then be used to retract the latch. The lever handle remains engaged until the key is used to re-lock the door.

APPLICATION NOTES

Lever handle spindles

The lever handle spindles included in the scope of supply of the PHA 2500 system are designed for door thicknesses of 40 – 70 mm. In the case of locks with functions D and B (split follower), a central lock fit is necessary for these lever handle spindles.

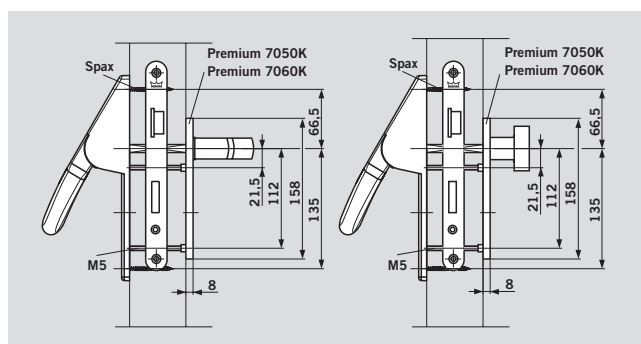
In the case of door leaf thicknesses outside the given ranges and/or an asymmetric lock fit, the corresponding lever handle spindle will need to be separately ordered. Please ensure that all the relevant drawing dimensions are indicated.



PHA 2500 with short backplates

The back-to-back bolting through the door further enhances stability of the furniture set comprising the PHA

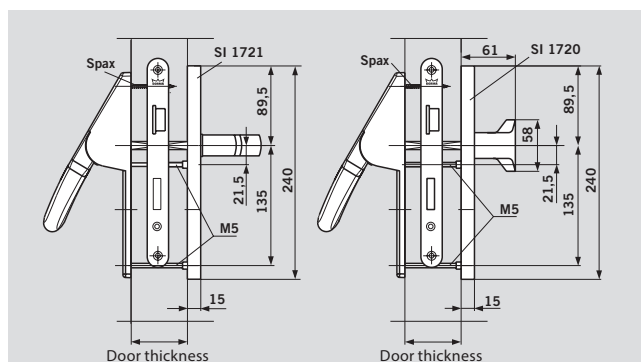
2500 panic exit device and short backplate with dead knob or lever handle



PHA 2500 with security fitting

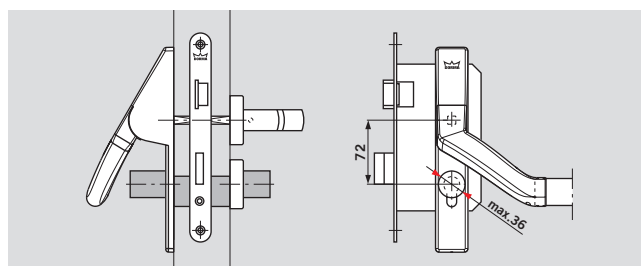
The security fittings SI 1720 (with fixed knob) and SI 1721 (with lever handle) can be perfectly combined with the DORMA Panic Hardware System PHA 2500.

For highest stability the panic fitting and the security fitting connected to each other by bolt through screwing.



PHA 2500 with an electronical knob cylinder

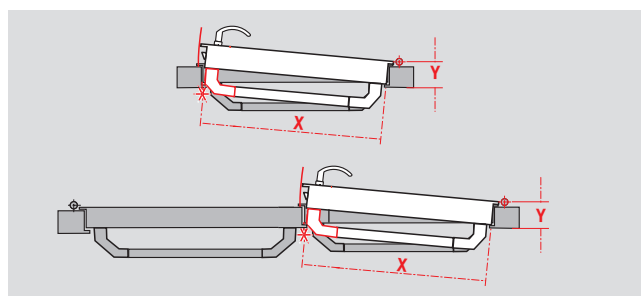
Use of an electronical knob cylinder according to certificate of conformity 0432-BPR-0066 DORMA PHA 2500.



Door situation

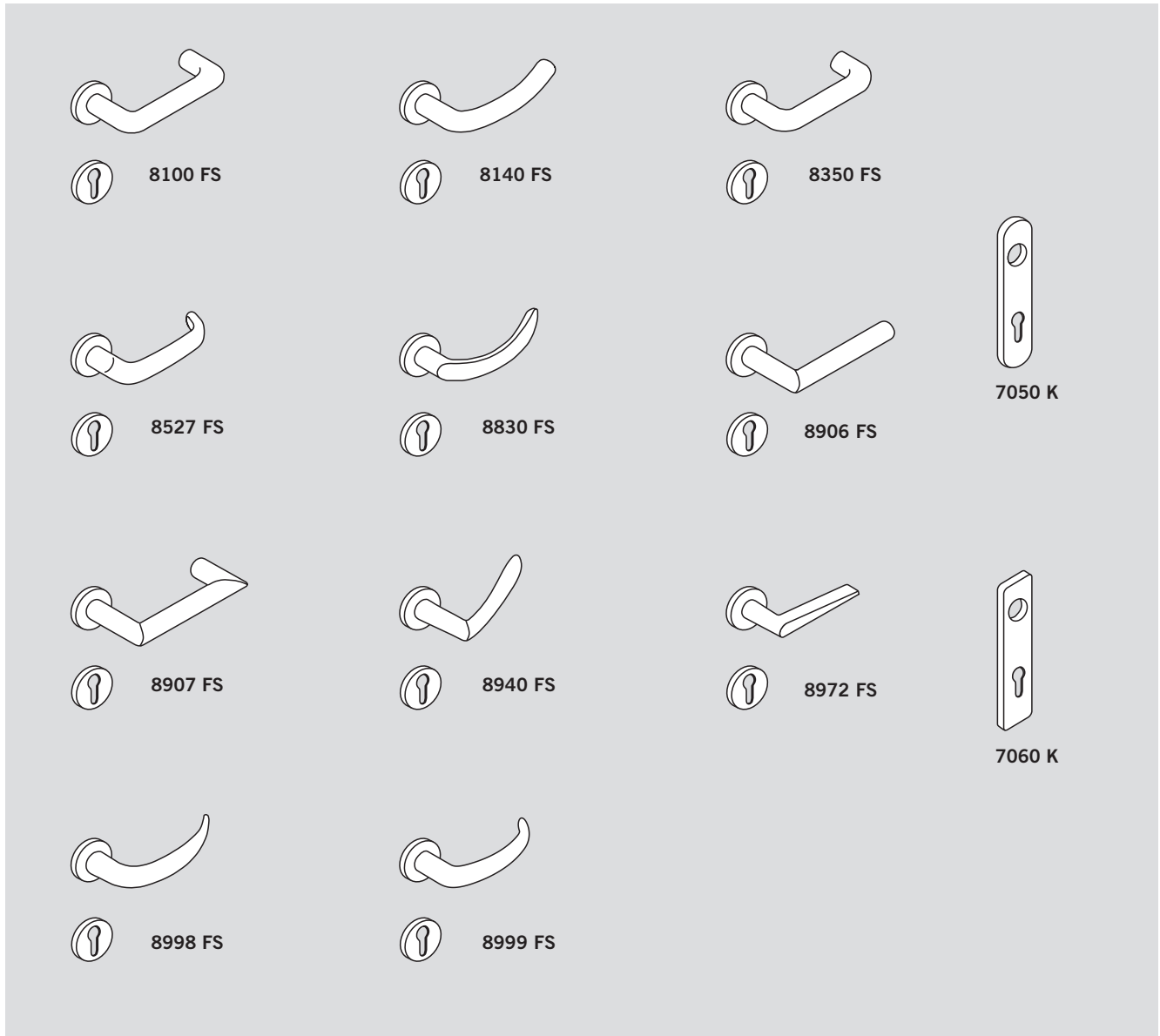
It may be the case that the panic fitting cannot be installed on extreme door situations according to standard measurements (door width X smaller than 1000

mm in connection with the distance of the hinge Y bigger than 90 mm). On request DORMA will gladly give you installation suggestions.

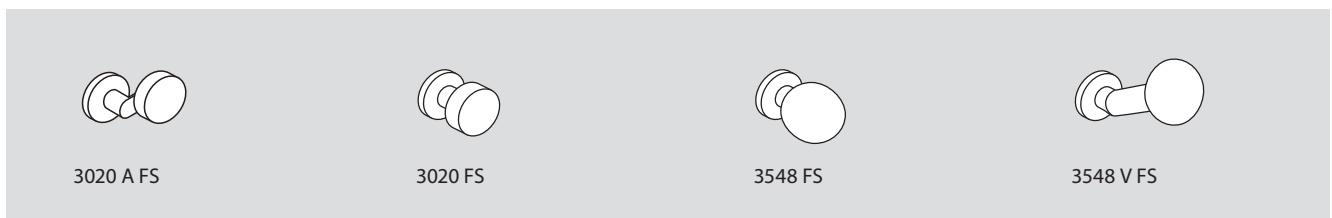


LEVER HANDLE

Lever handle fittings for timber doors (selection)



Knobs for timber doors



For further lever handle fittings please refer to DORMA Premium brochure.

Lever handles with round roses for use on timber doors according to EN 1906, DIN 18273 and EN 1634-1 (for fire and smoke check doors).

For the combination with PHA 2500 system the 9 mm lever handle spindle has to be used.





DORMA Deutschland GmbH
DORMA Platz 1
58256 ENNEPETAL
GERMANY
Phone +49 2333 793-0
Fax +49 2333 793-4950
www.dorma.com