



**PHA 2500**  
**Panic hardware**  
**for narrow stile doors**



# Panic Hardware System PHA 2500

## Innovative, high-spec fittings for escape route doors

With the PHA 2500 system, dormakaba offers a high-quality panic exit device with standard bar projection and an integrated emergency-escape lock. It is certified according to EN 1125 and the CE mark and is suitable for single- and double-leaf narrow stile doors in escape routes, in which security, reliability and aesthetics are indispensable requirements.

This panic hardware fitting system is another component in the dormakaba product portfolio for securing escape routes and thus covers the fitting requirements of public facilities such as hospitals, universities and schools, concert halls, shopping centres, hotels and administration buildings.

The Premium fitting series door handles constructed according to EN 1906, EN 1634-1 and DIN 18273 can be used as external fittings.



### F Certificate of suitability

The panic hardware products of the PHA 2500 series have been tested to and certified compliant with EN 1125. All products meet the requirements of Annex ZA to EN 1125 and are therefore qualified to bear the mark of conformity (CE characters).

Proof of suitability for use with the fire and smoke control door required.

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## Practical panic hardware fittings for narrow stile doors

With its PHA 2500 (push bar) series, its Premium fitting series and additional accessories, dormakaba offers a high-performance panic hardware system that is ideal for interior narrow stile doors. The integrated mortise panic lock with 20 mm deadbolt throw enables the door to be locked by latch and bolt. Strike boxes with electric strikes (from 35 mm backset) allow for easy installation on narrow profile systems.

### Benefits – point by point

#### For trade

- Certified system in a complete package.
- One push bar for all door widths.
- Compatible with door handles of the Premium fitting series (available from stock).
- Extensive range of accessories.

#### For installers

- Competent expertise from a single source.
- Straightforward installation.
- Easy adjustment to different door widths and heights.
- Corresponding range of accessories.

### For planners

- High quality appearance thanks to a lack of visible fastening screws.
- Standard bar projection according to EN 1125.
- Certified, standard-compliant system.
- All door handles of the Premium fitting series constructed according to EN 1906, EN 1634-1 and DIN 18273 can be used.

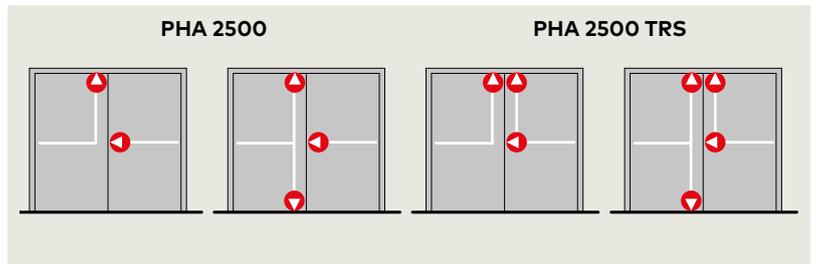
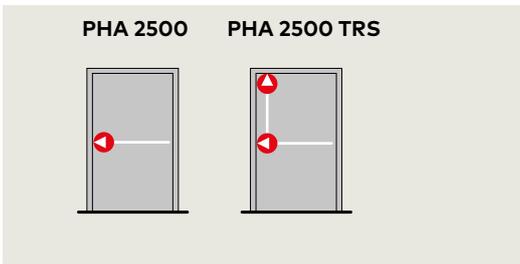
### For the end user

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

Data and features	PHA Series 2500	
	1-leaf	2-leaf
General doors in escape routes	●	●
Fire and smoke doors	●	●
Door width	≤ 1,300 mm (1,600 mm) <sup>1)</sup>	●
	≤ 2,600 mm (3,200 mm) <sup>1)</sup>	–
Door height	≤ 2,500 mm (3,500 mm) <sup>1)</sup>	●
		●
Max. door leaf weight in kg <sup>1)</sup>	200	200
Version	DIN-R	●
	DIN-L	●
Standard bar projection ≤ 100 mm	●	●
Anti-panic mortise lock	●	●
Spindle dimension (mm)	35/40/45	35/40/45
Distance PC (mm)	92	92
20 mm deadbolt throw	●	●
Europrofile cylinder according to DIN 18252	●	●
Usage of electronic knob cylinder, PC possible	○	○
Lock function Access/Change-over/Shift	●/●/●	●/●/●
Dogging device (only with change-over function)	○	○
Faceplate width (mm)	24	24
U faceplate, 34/39/44 mm backset	○	○
Drive dead bolt with snap lock (active door leaf)	○	○
Drive dead bolt with switch lock (passive door leaf)	–	●
Electric strike Smoke and Fire 447	○	–
Passive door leaf strike box with drive lock (lower drive dead bolt secured against manipulation)	–	●
Passive door leaf strike box with electric strike, 10–28 V AC/DC, including feedback contact and connection cable (10 m) with plug connection, 35/40/45/50/55/60/65 mm backset	–	○
External fitting (Premium fitting series)	○	○
Tested and certified according to EN 1125:2008	●	●
CE-Identification for construction products	●	●
Production in accordance with DIN ISO 9001	●	●

● = Yes    – = No    ○ = Optional

<sup>1)</sup> Maximum door width/door height/weight according to EC certificate of conformity. Corresponding connecting rod/drive dead bolt on request.



**Panic Hardware System PHA 2500**

1-point locking device

**Premium fitting series**

2-point locking device

+

**Passive door leaf Active door leaf**

1-point locking device 1-point locking device

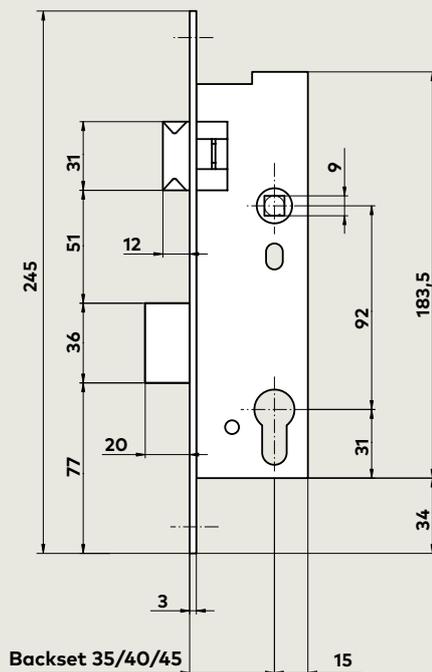
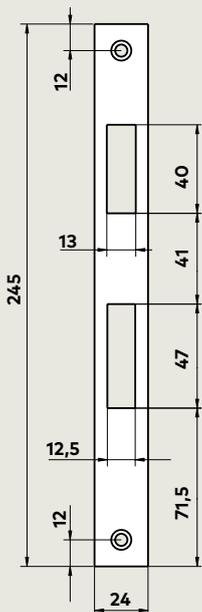
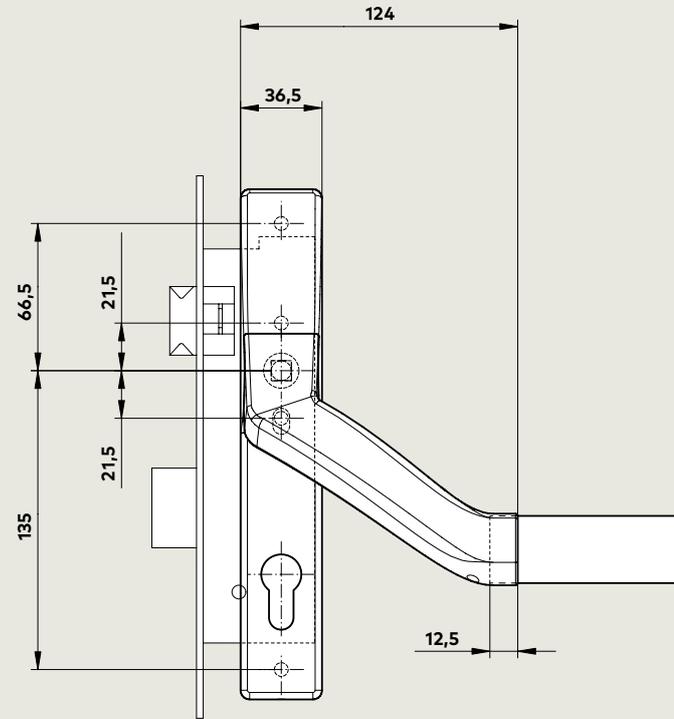
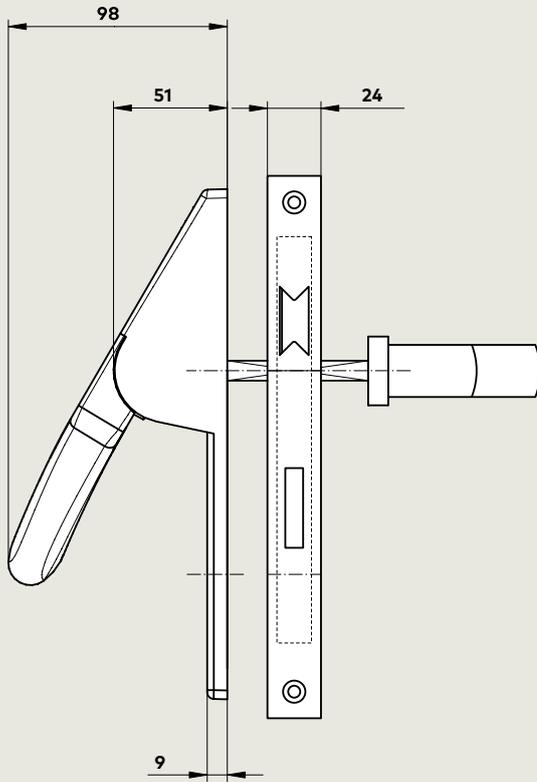
**Premium fitting series**

2-point locking device 2-point locking device

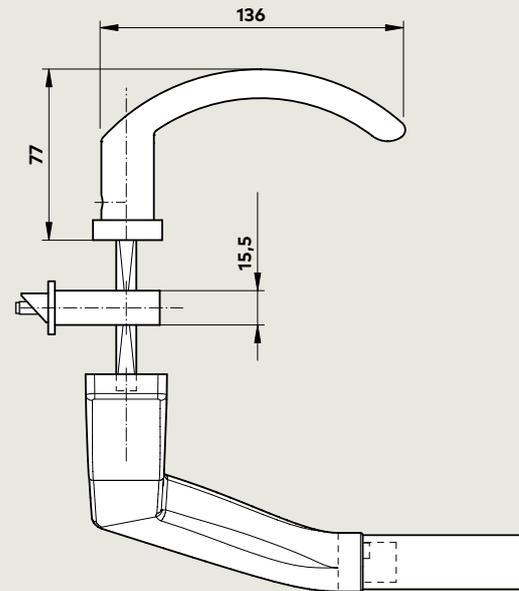
+

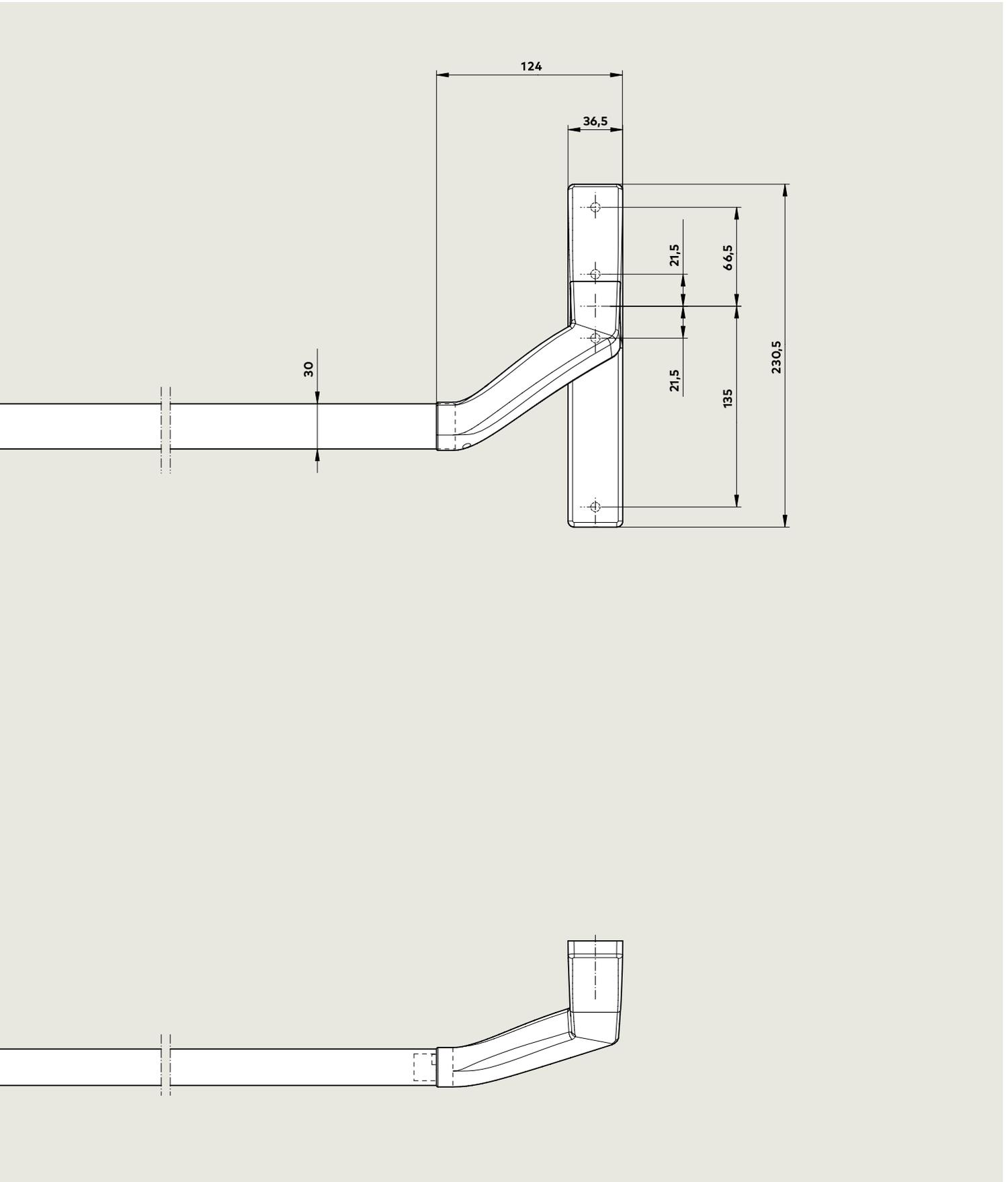
with electric strike

# Single-leaf doors

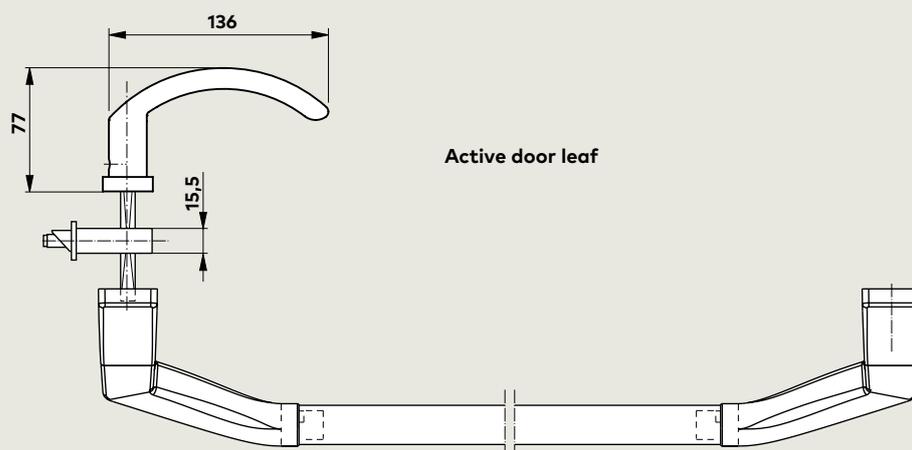
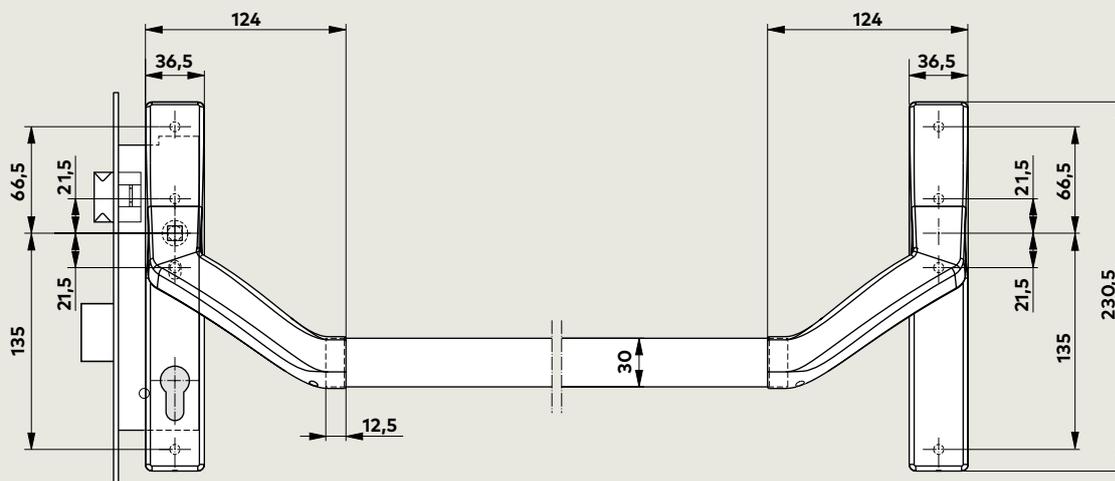


Backset 35/40/45

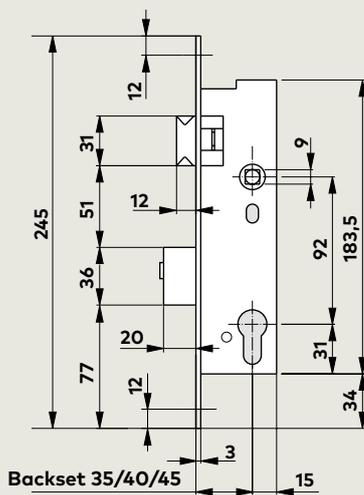
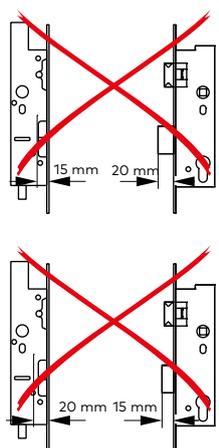




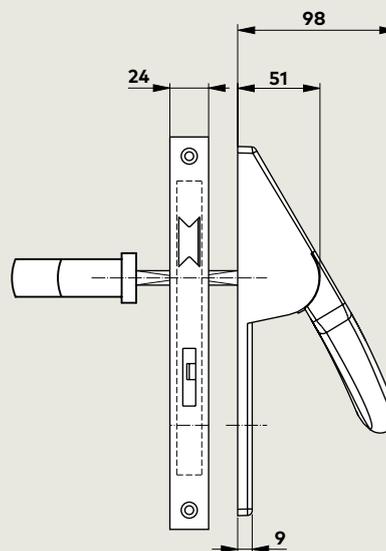




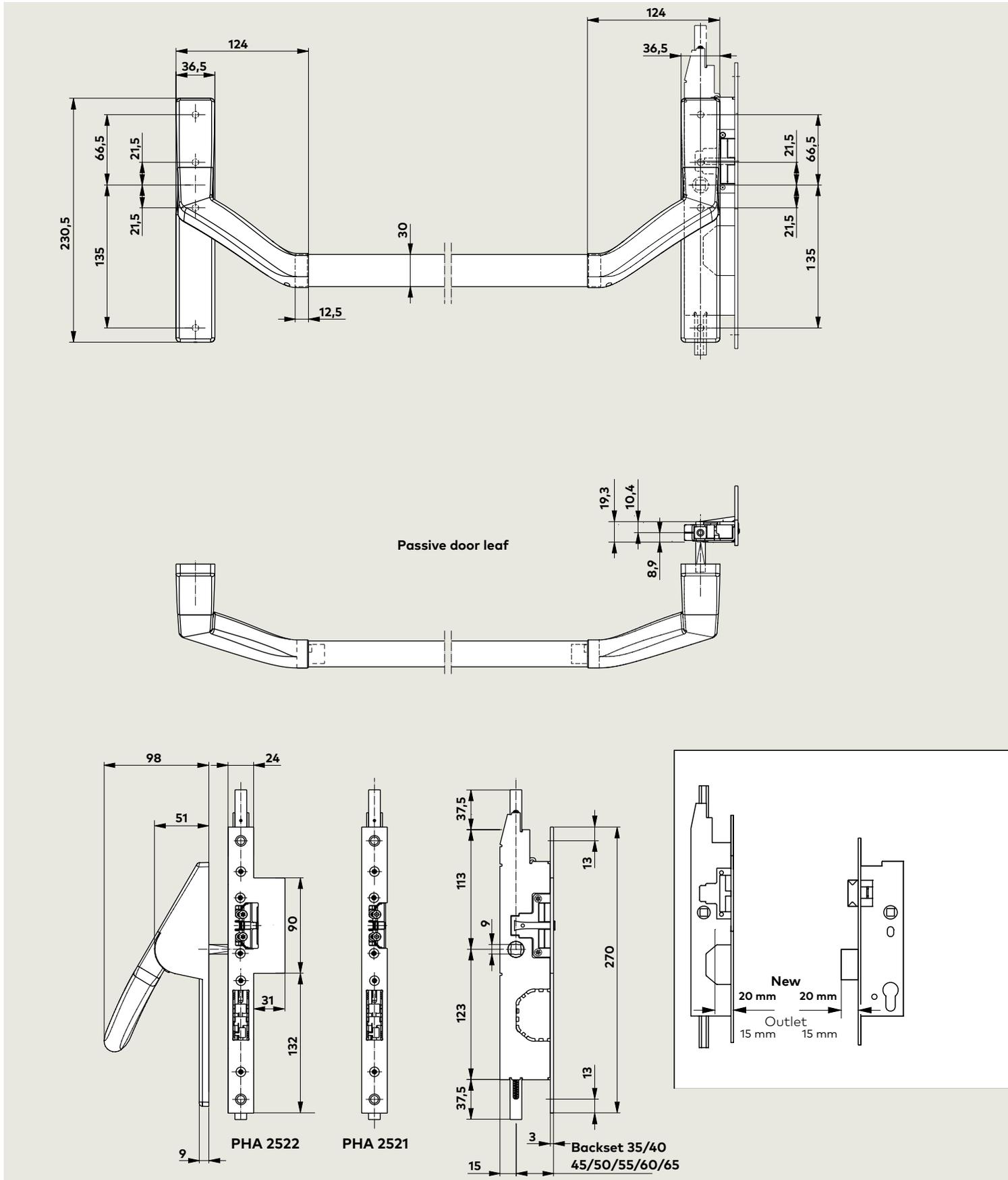
Active door leaf

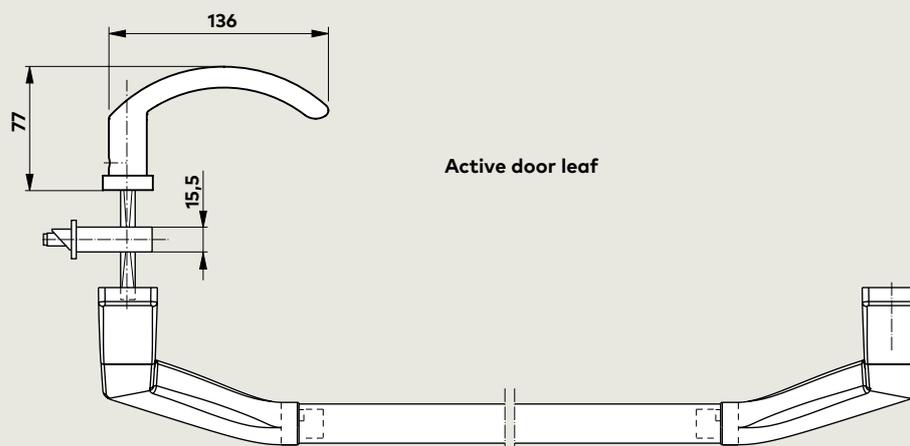
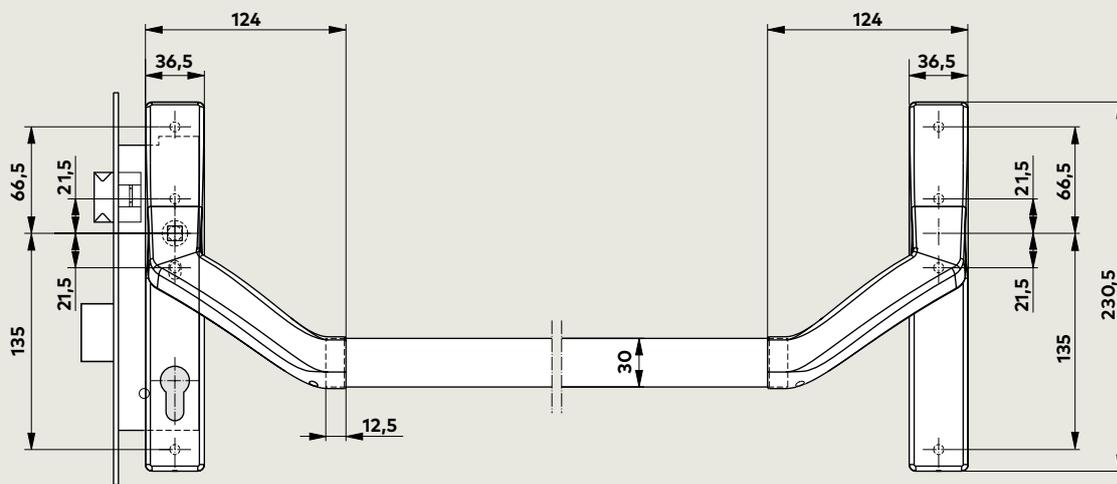


Backset 35/40/45

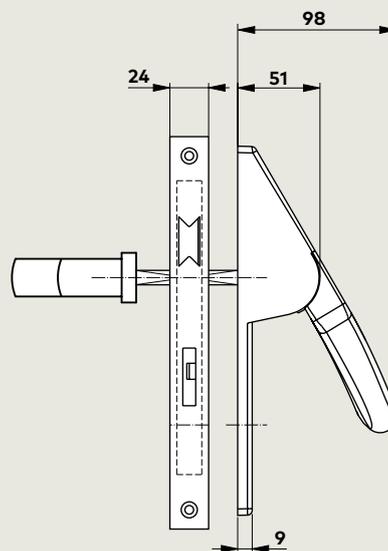
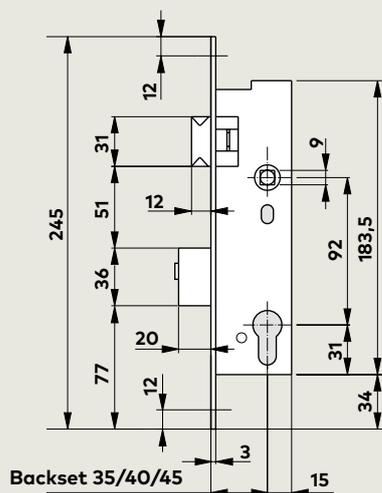
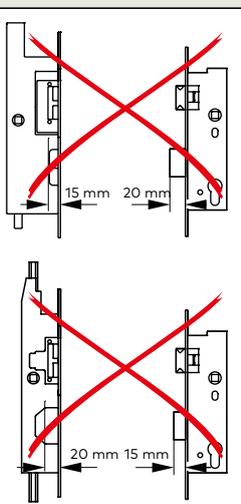


## Double-leaf doors with electric strike



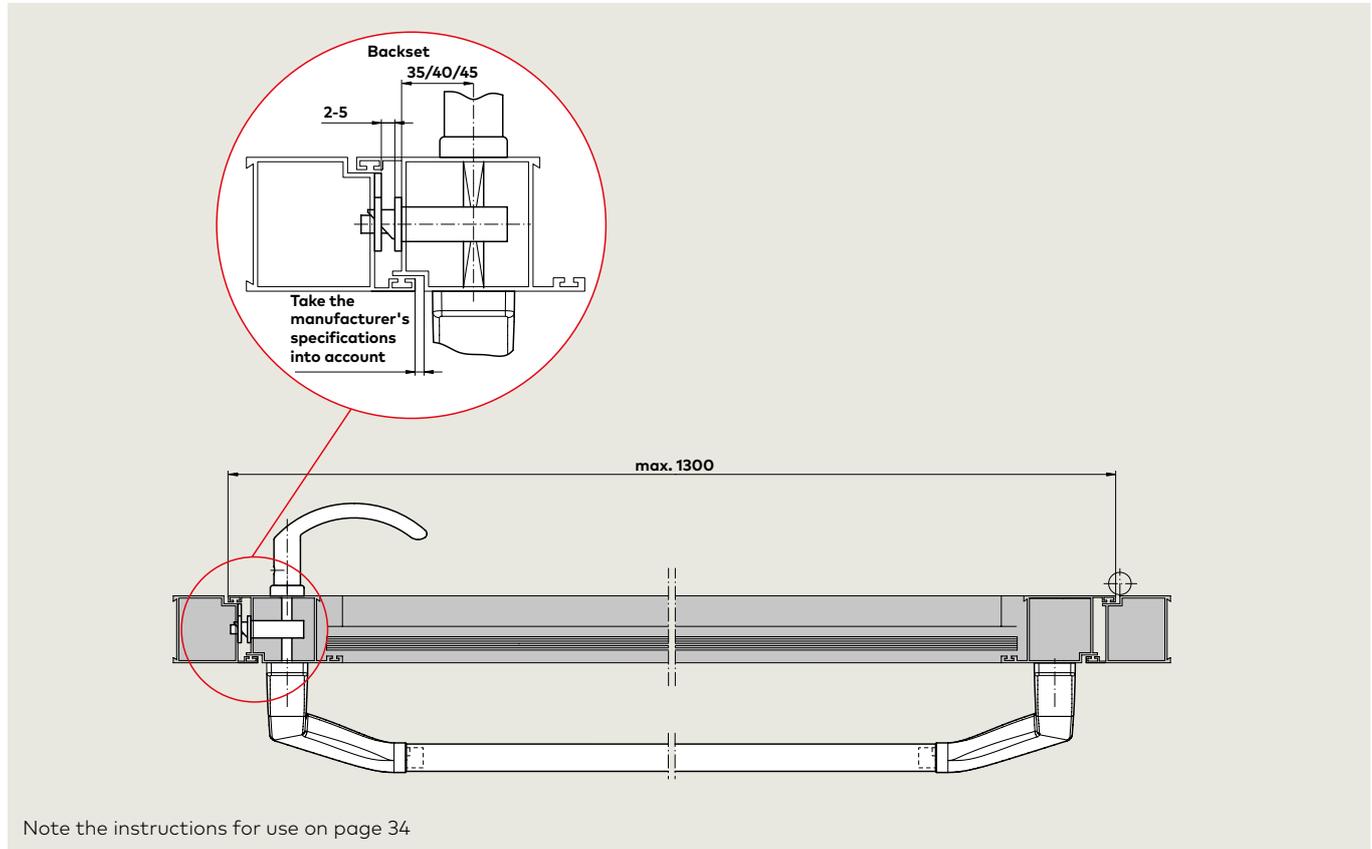


Active door leaf

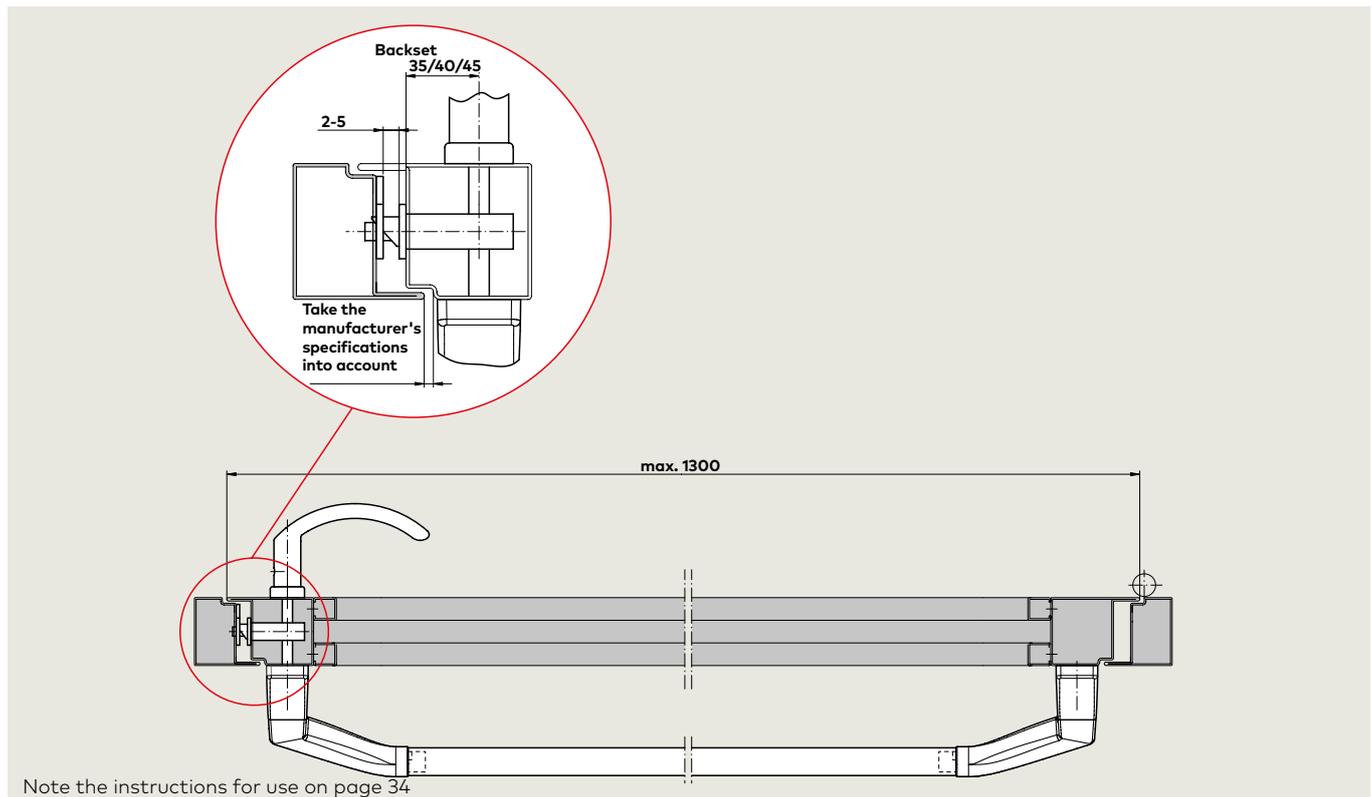


## Single-leaf doors

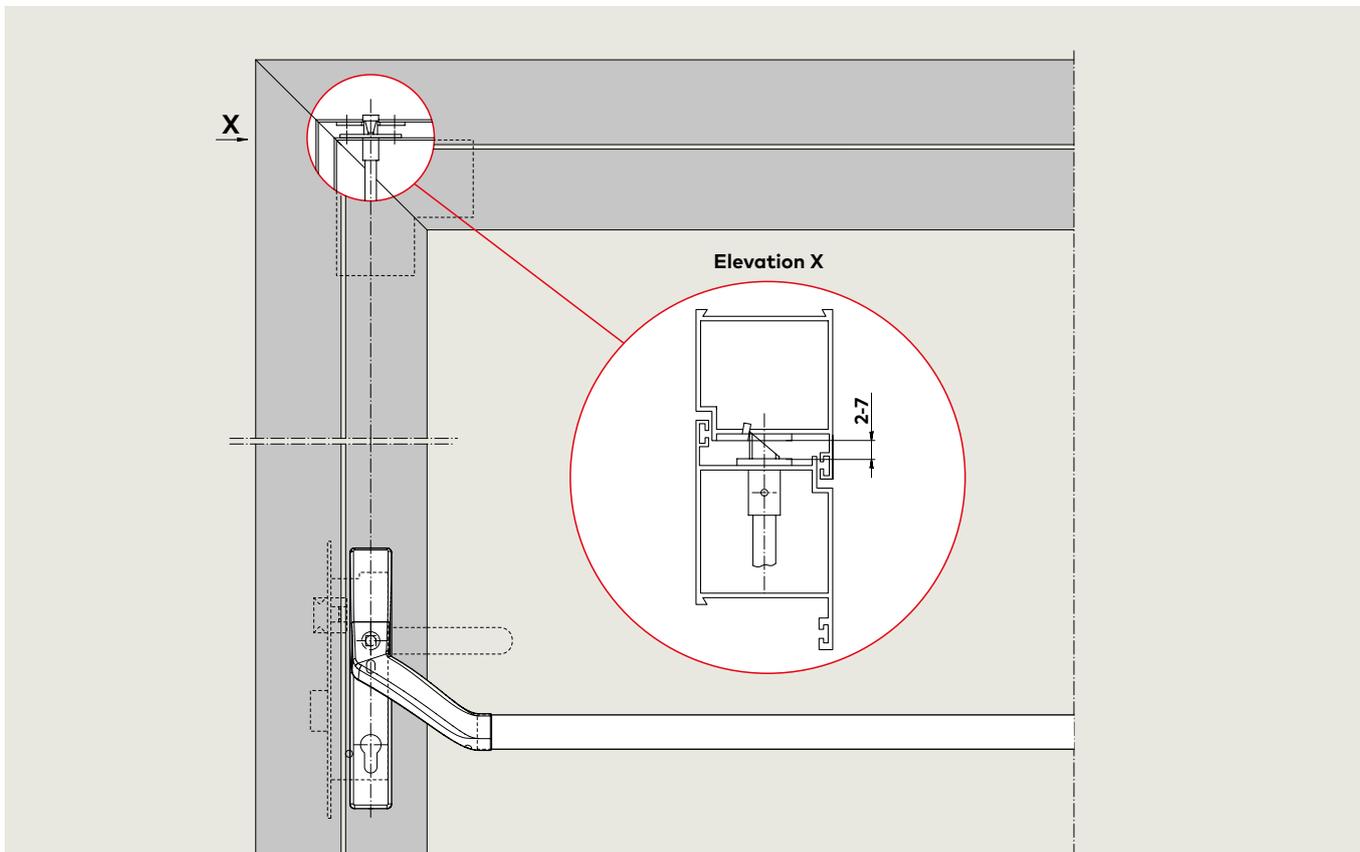
### Horizontal locking device on an aluminium narrow stile door



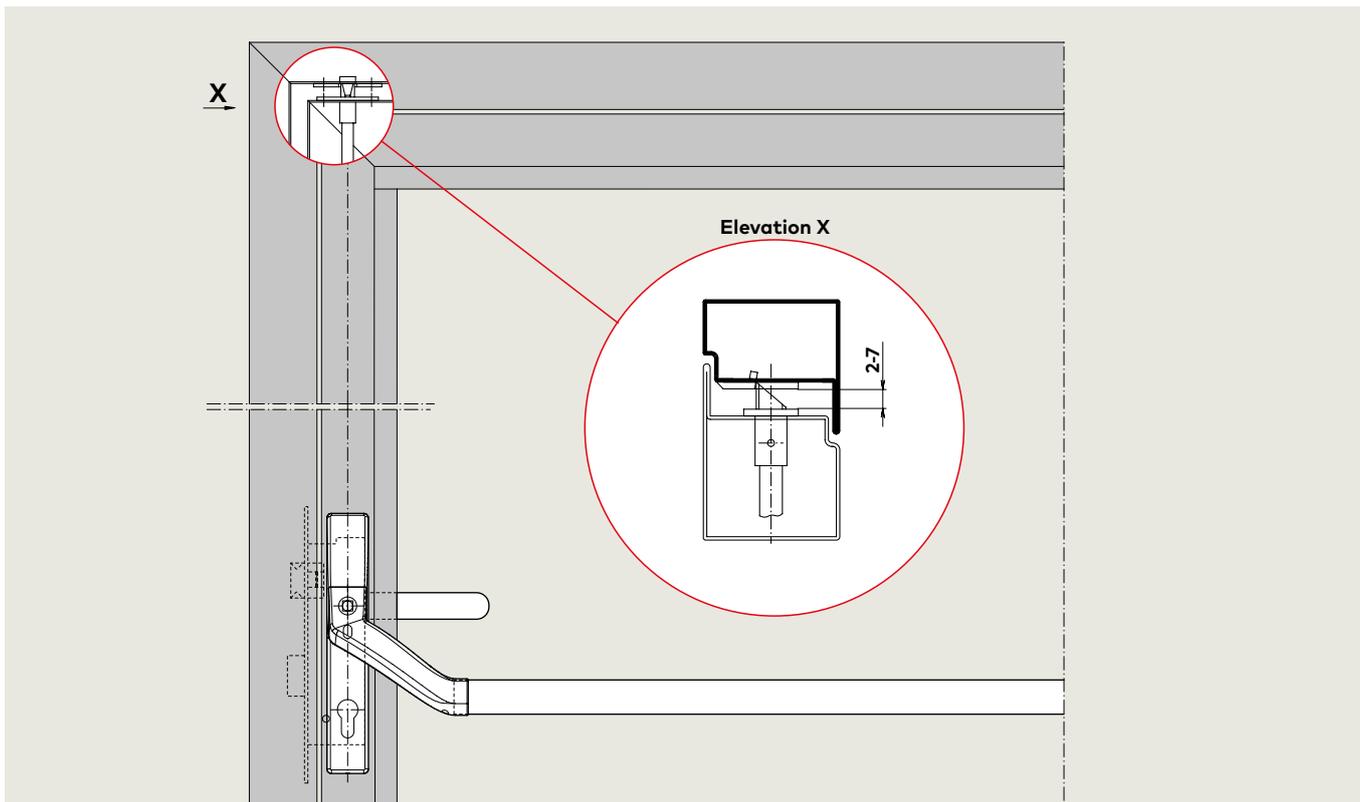
### Horizontal locking device on a steel narrow stile door



Vertical locking device on an aluminium narrow stile door

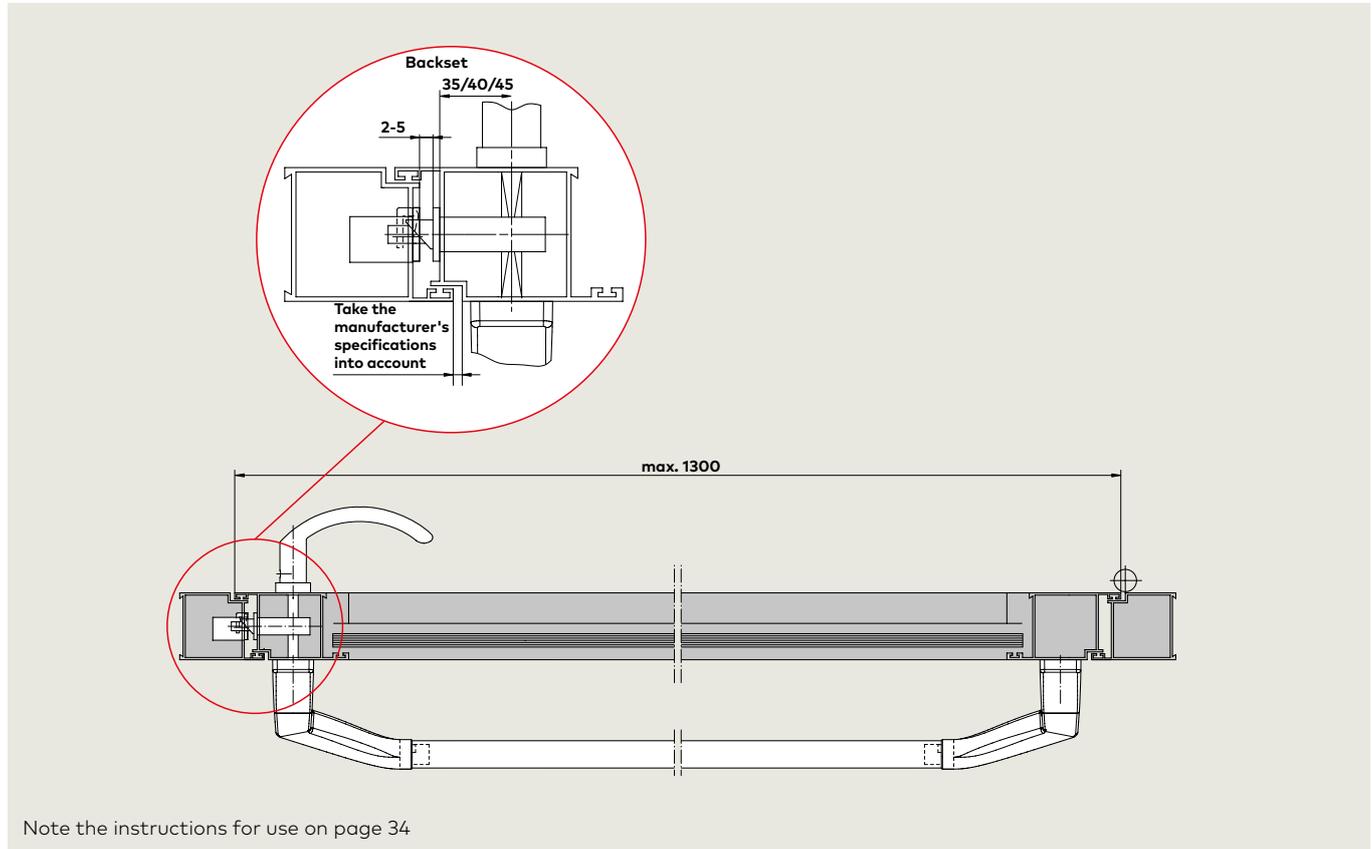


Vertical locking device on a steel narrow stile door

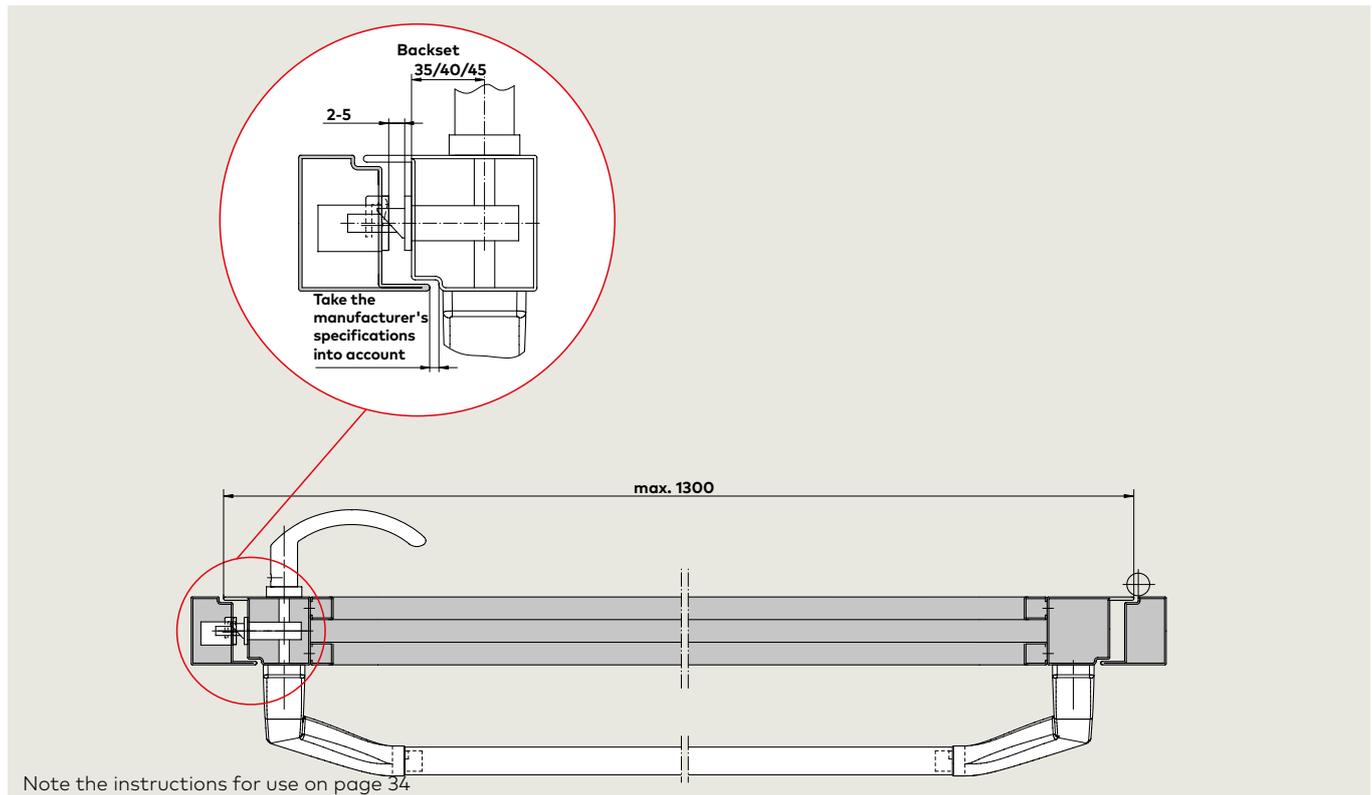


## Single-leaf doors with electric strike

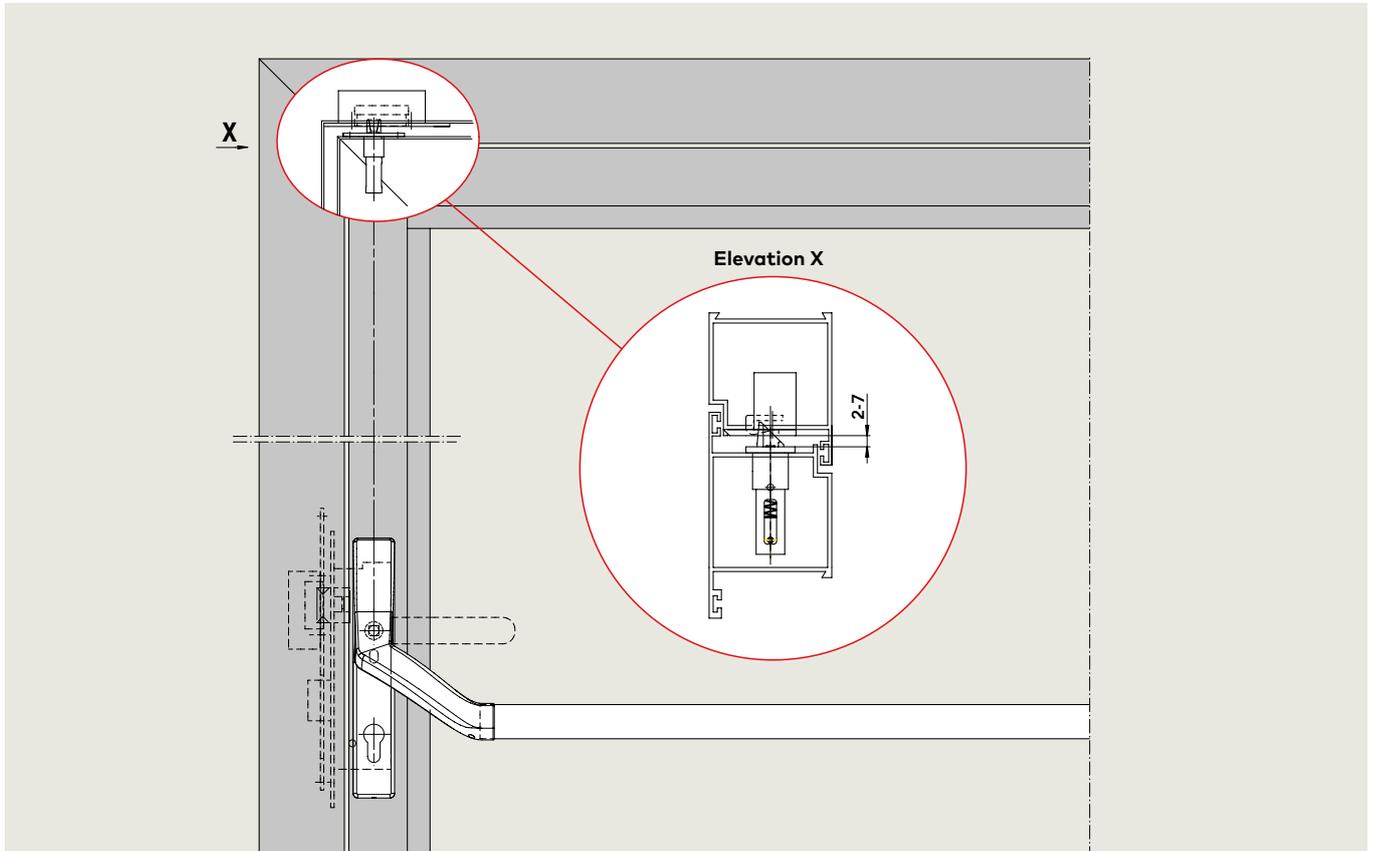
### Horizontal locking device with electric strike on an aluminium narrow stile door



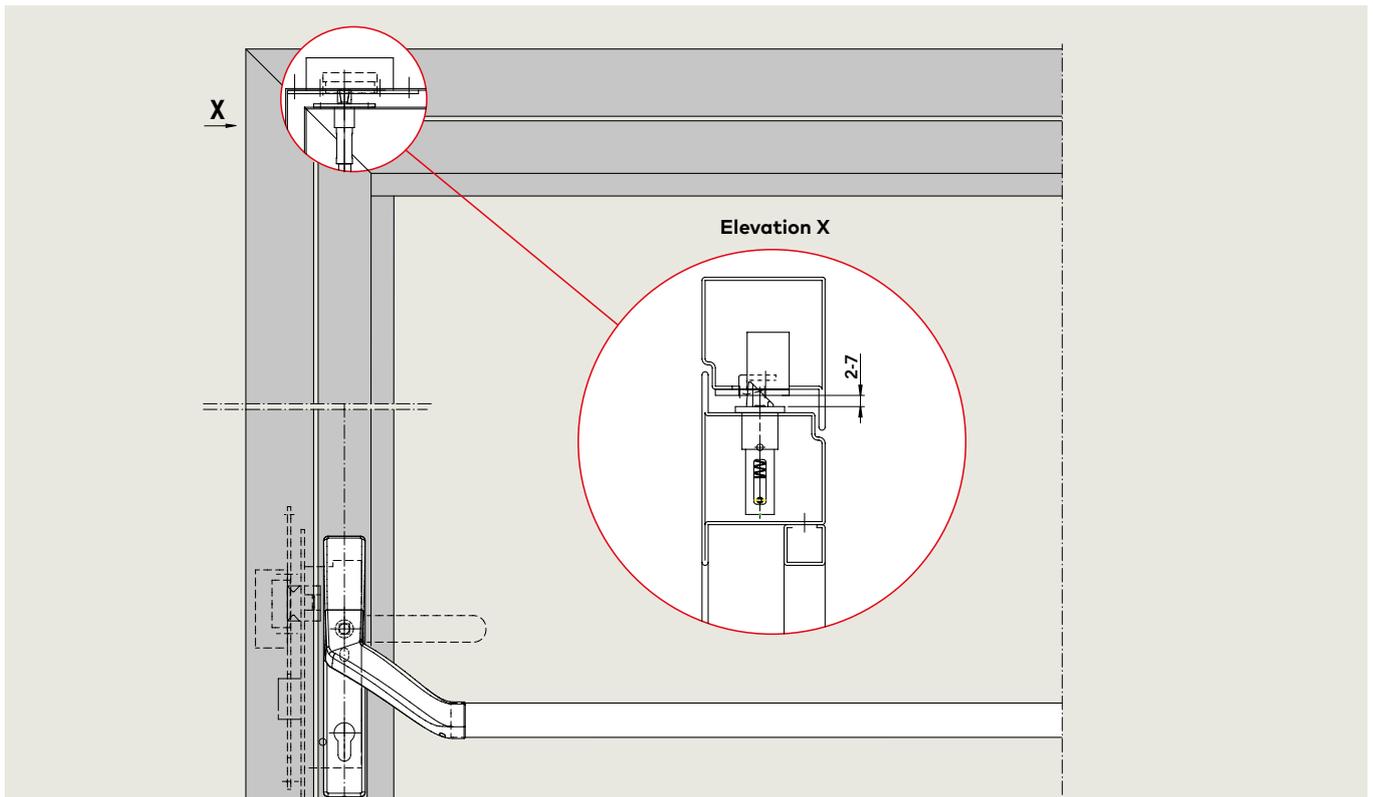
### Horizontal locking device with electric strike on a steel narrow stile door



Vertical locking device with electric strike on an aluminium narrow stile door

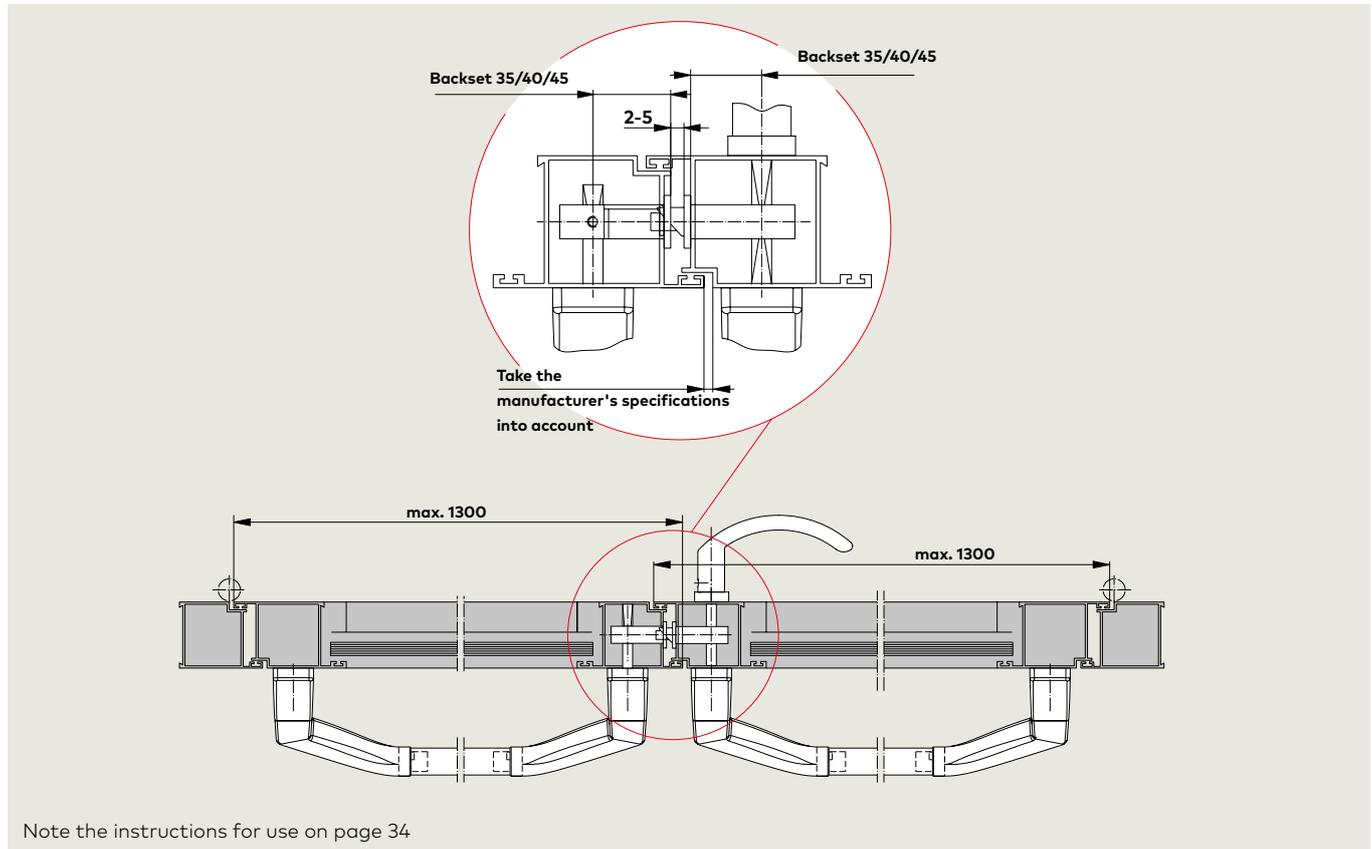


Vertical locking device with electric strike on a steel narrow stile door

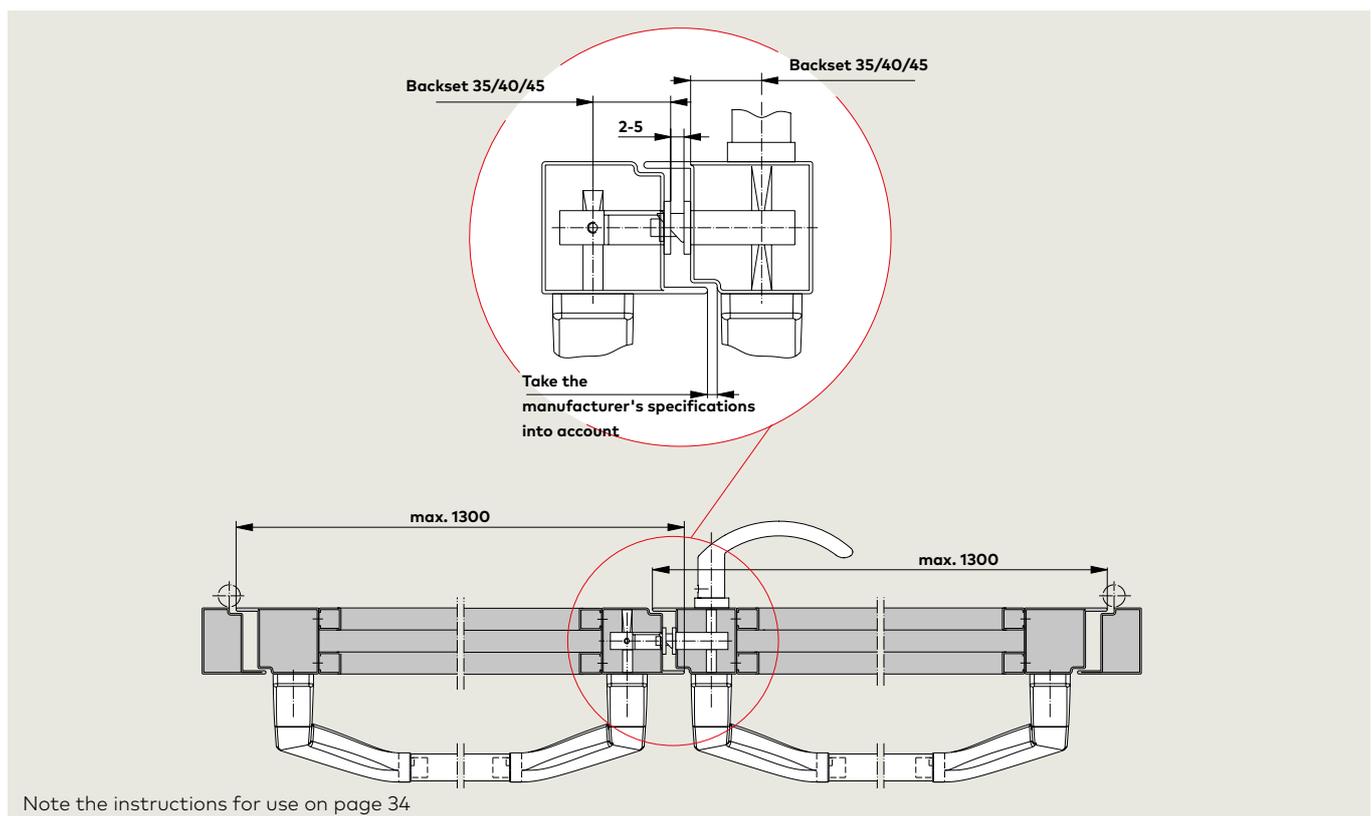


## Double-leaf doors

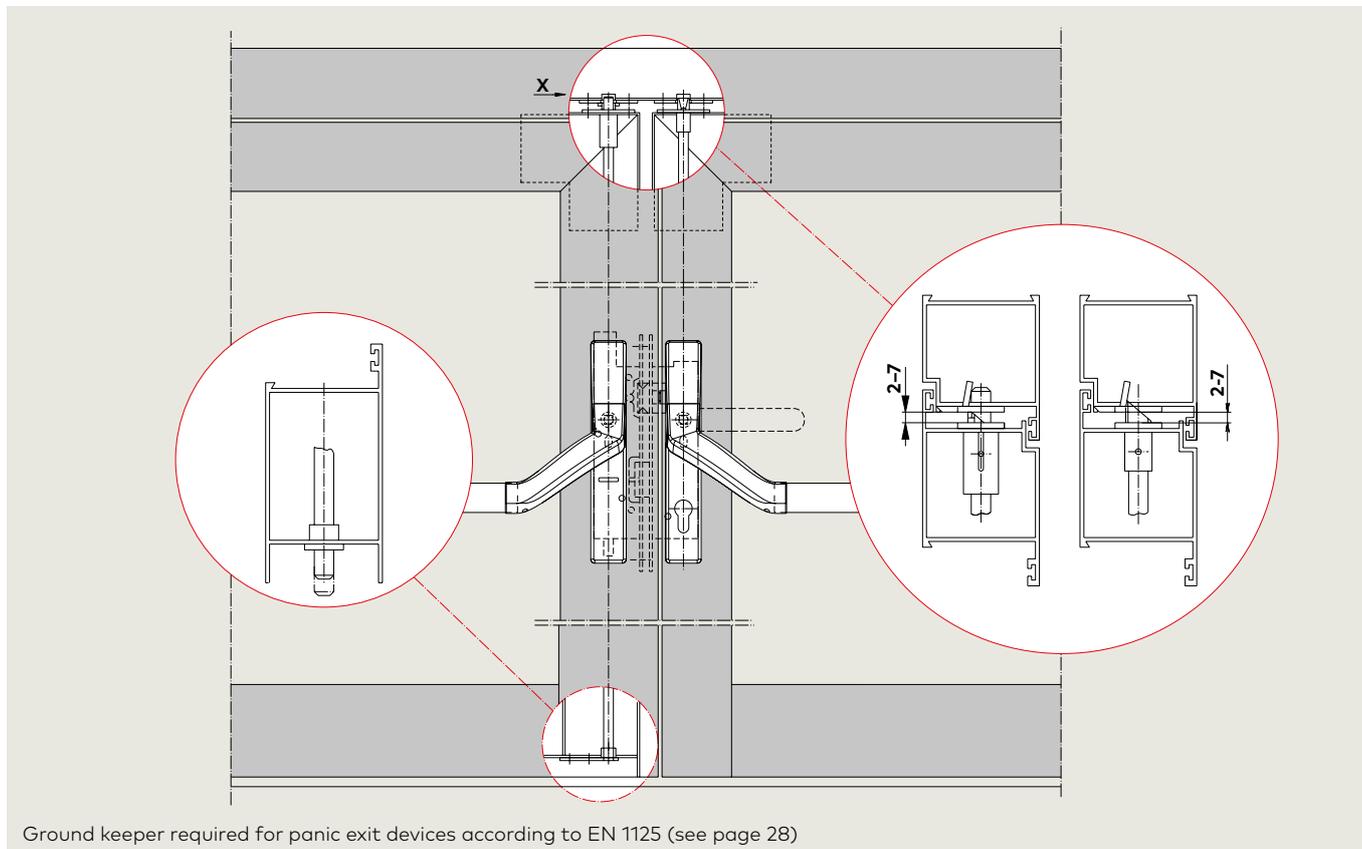
### Horizontal locking device on an aluminium narrow stile door



### Horizontal locking device on a steel narrow stile door

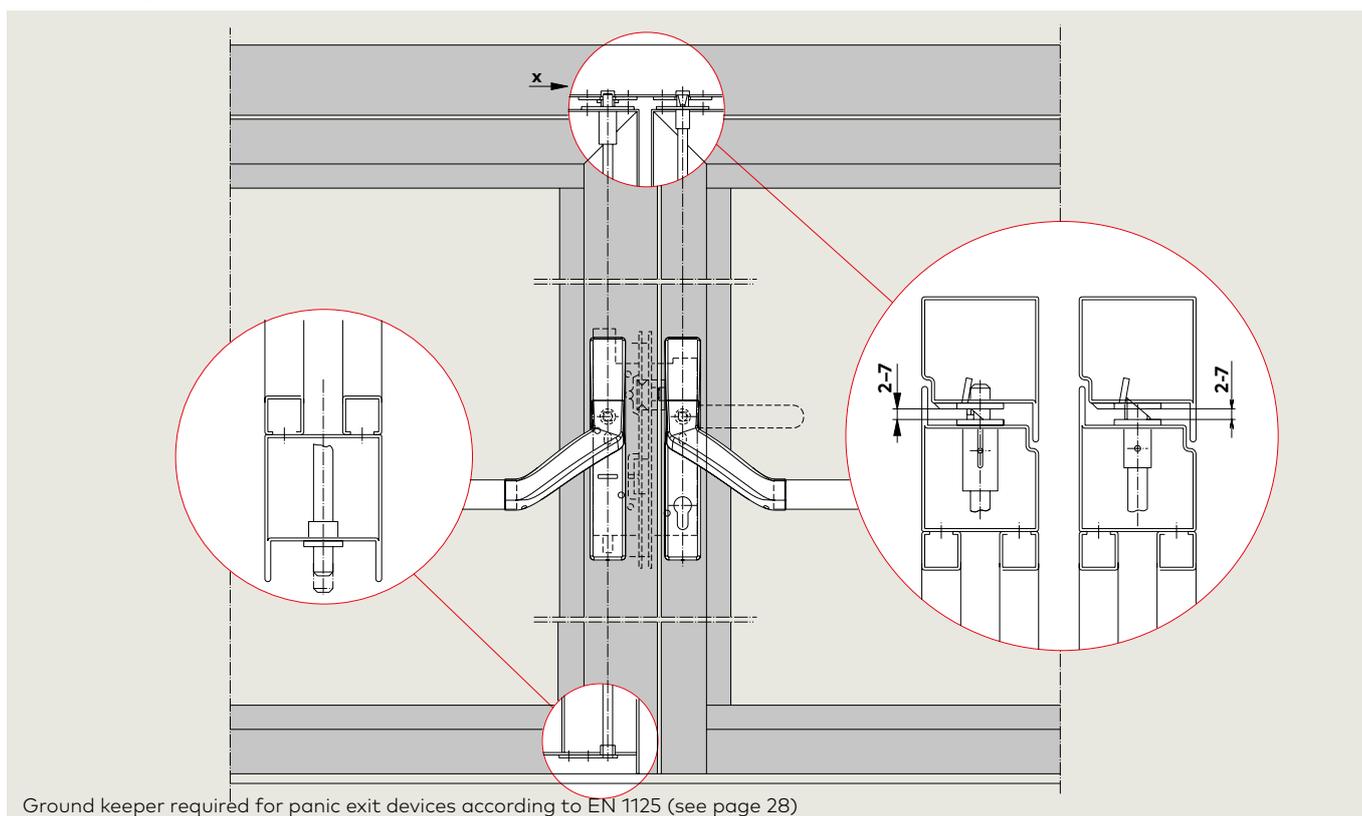


**Vertical locking device on an aluminium narrow stile door**



Ground keeper required for panic exit devices according to EN 1125 (see page 28)

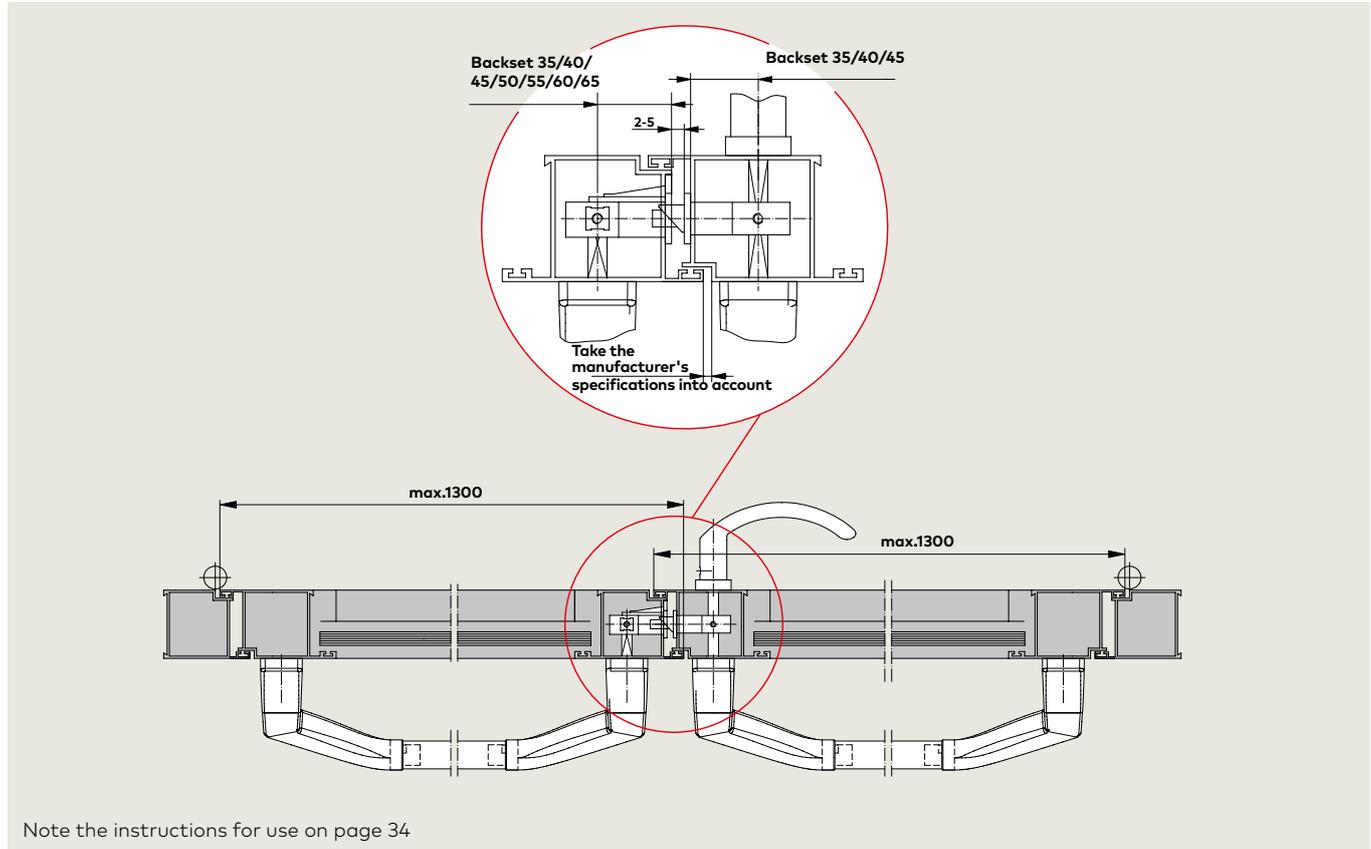
**Vertical locking device on a steel narrow stile door**



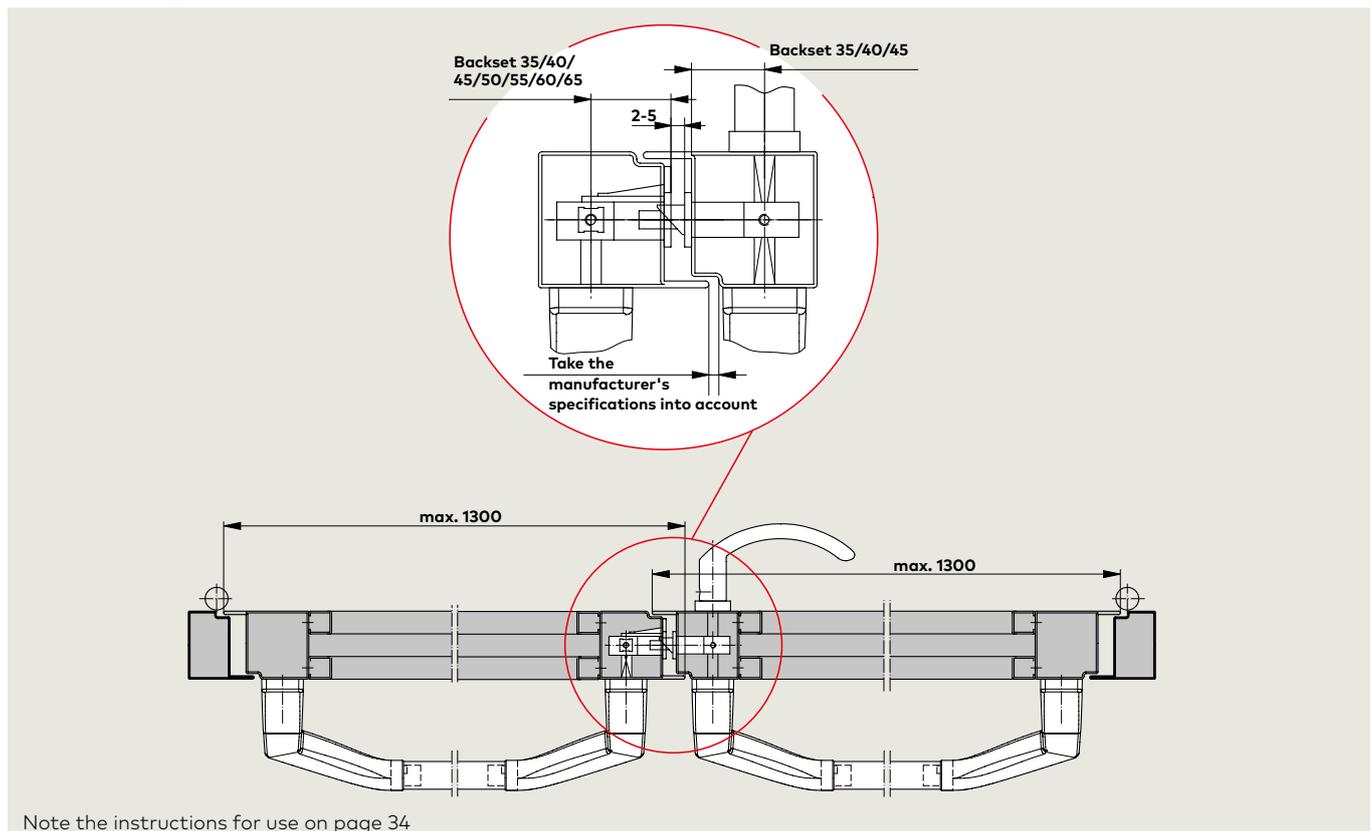
Ground keeper required for panic exit devices according to EN 1125 (see page 28)

## Double-leaf doors with electric strike

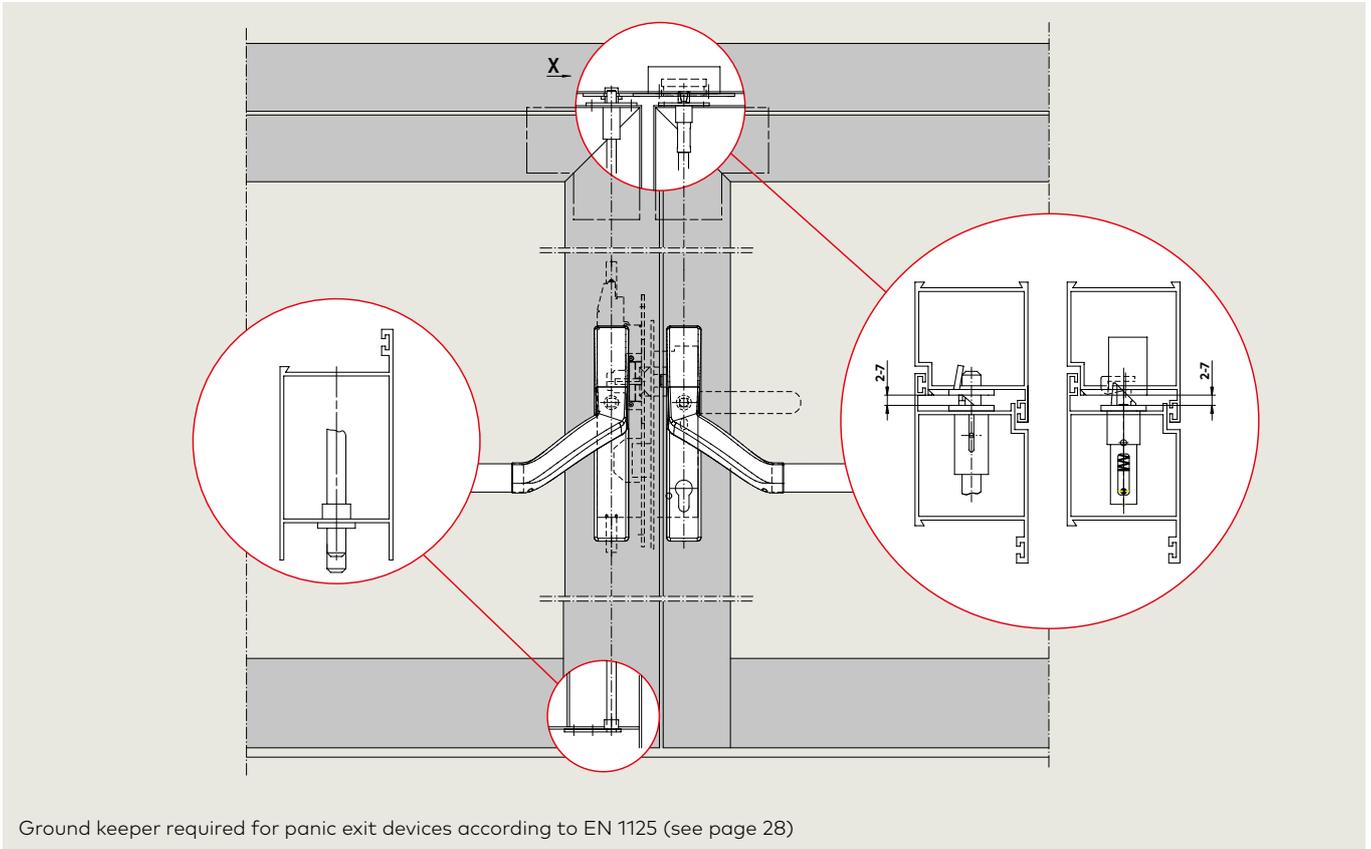
### Horizontal locking device with electric strike on an aluminium narrow stile door



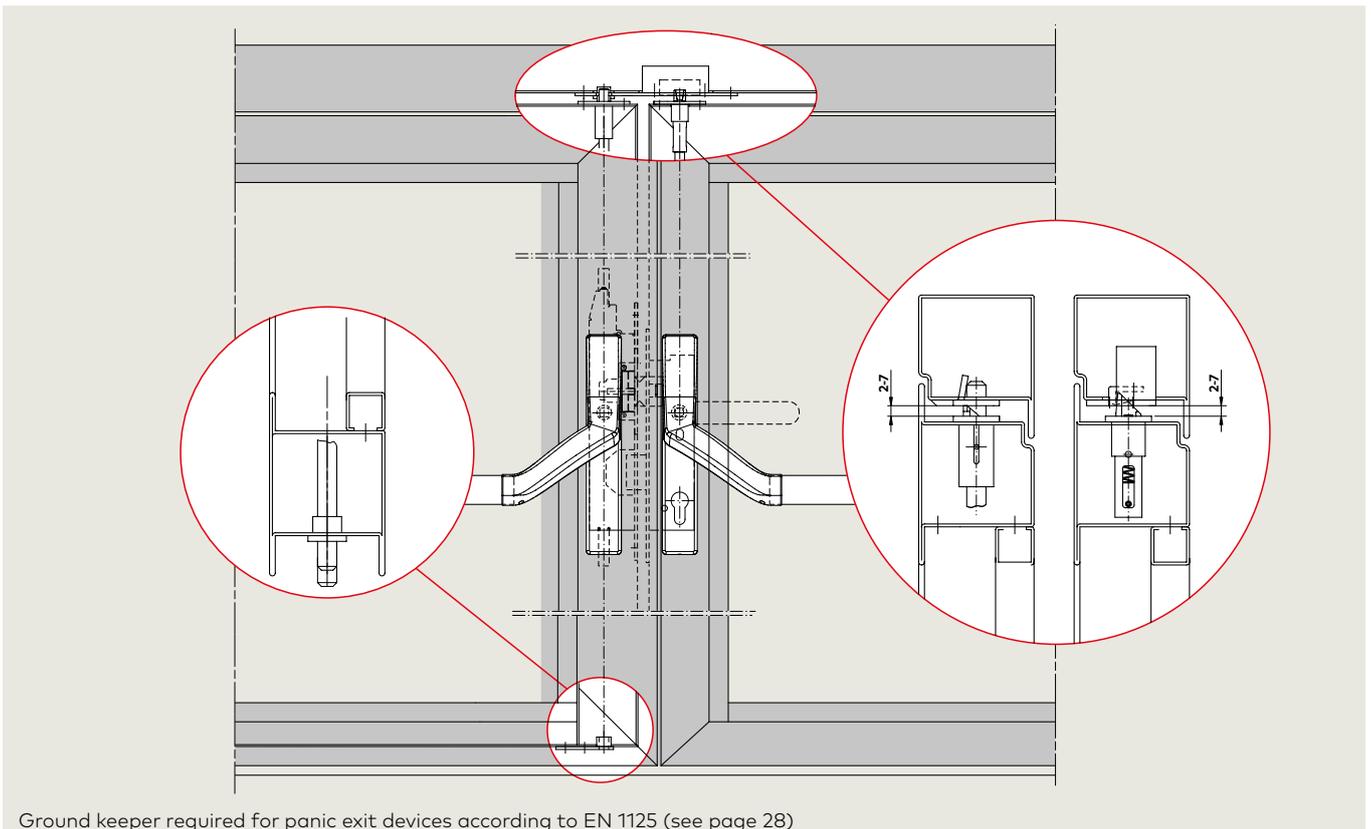
### Horizontal locking device with electric strike on a steel narrow stile door



**Vertical locking device with electric strike on the active door leaf of an aluminium narrow stile door**

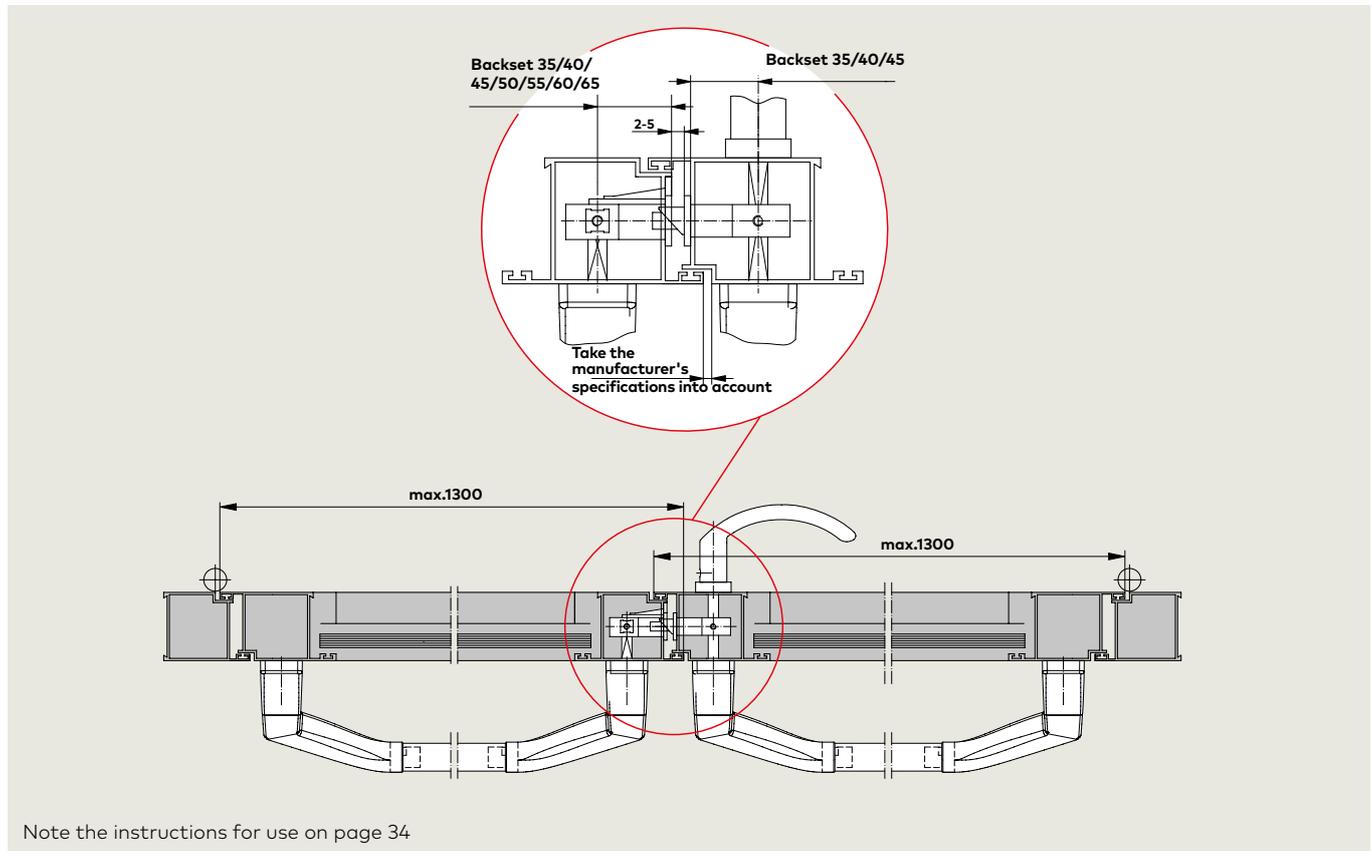


**Vertical locking device with electric strike on the active door leaf of a steel narrow stile door**

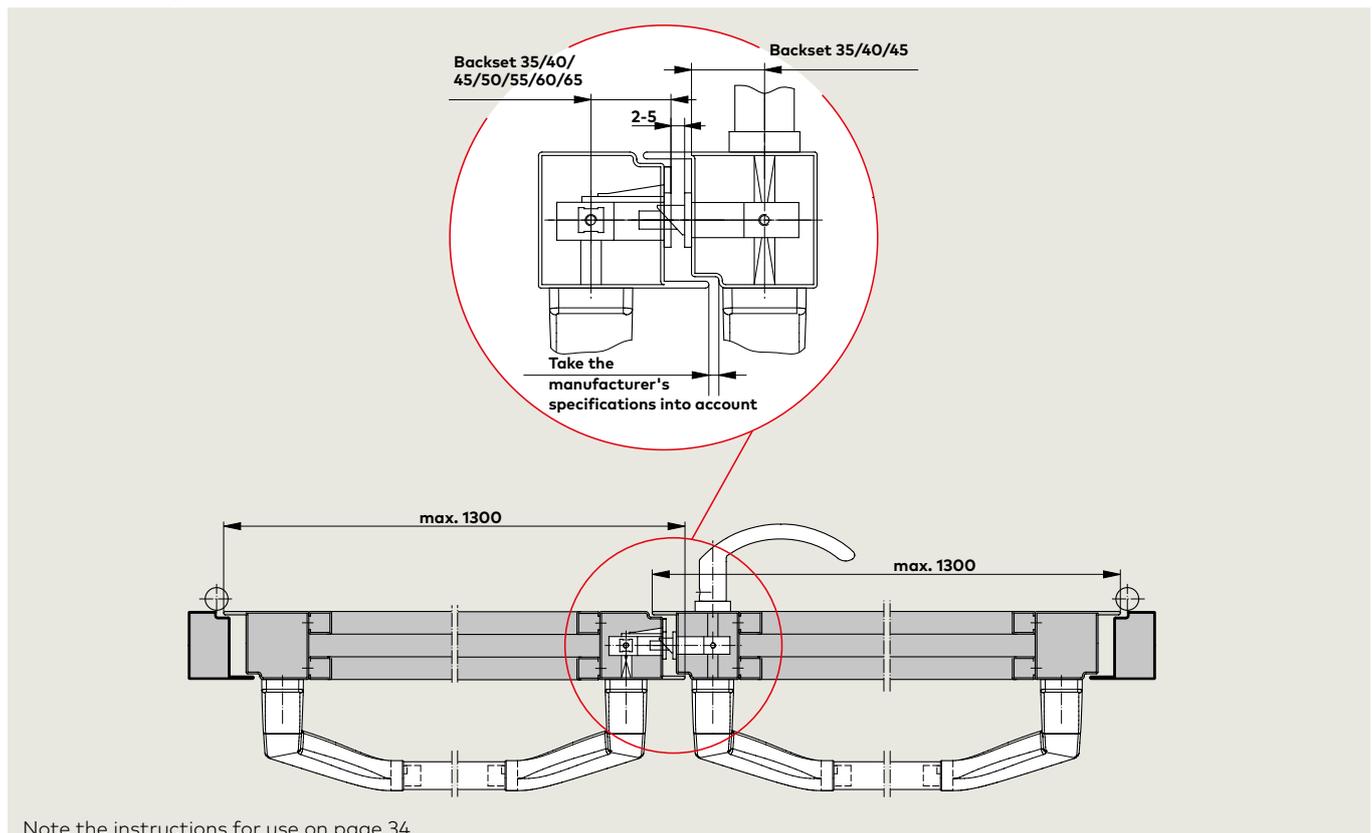


## Double-leaf doors with electric strike

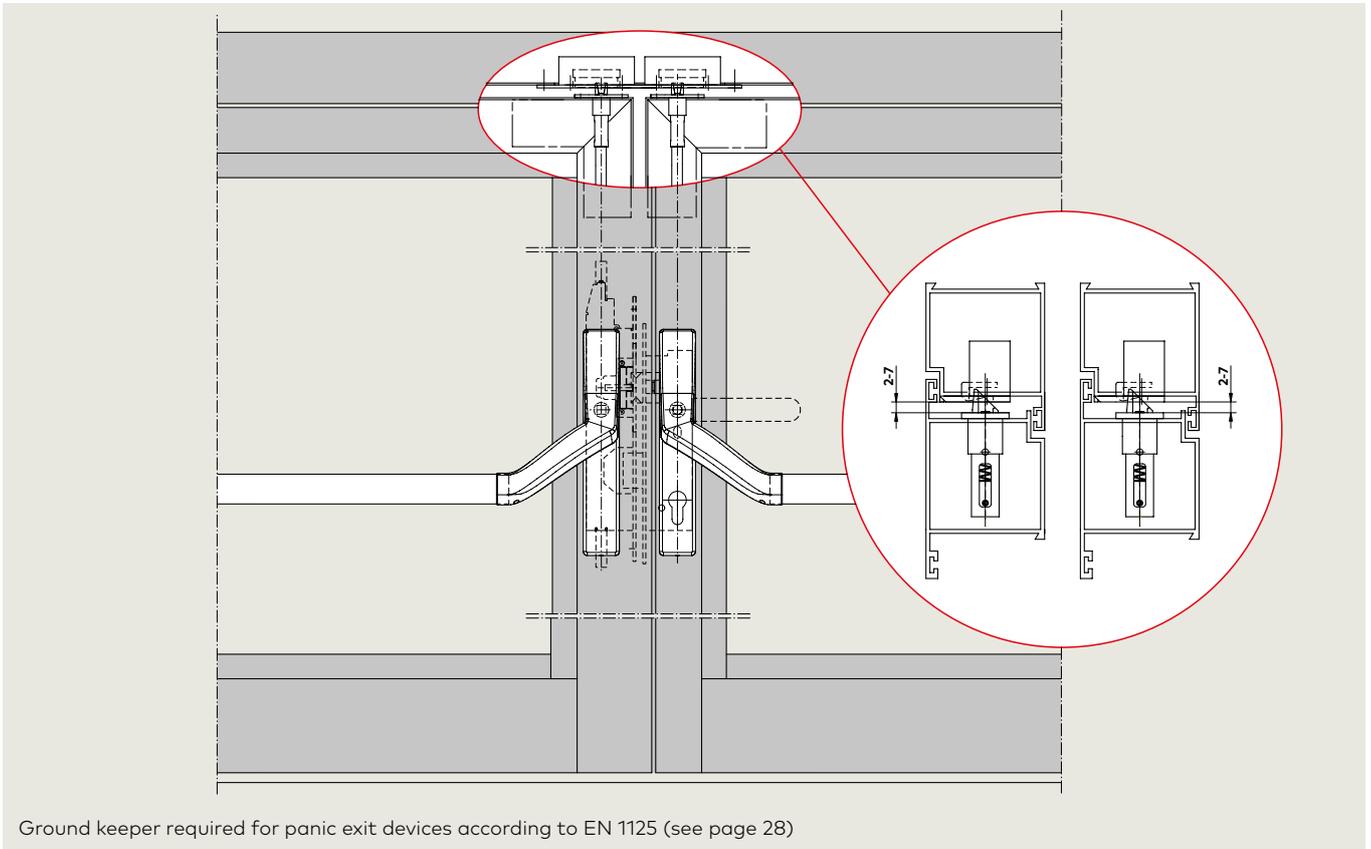
### Horizontal locking device with electric strike on an aluminium narrow stile door



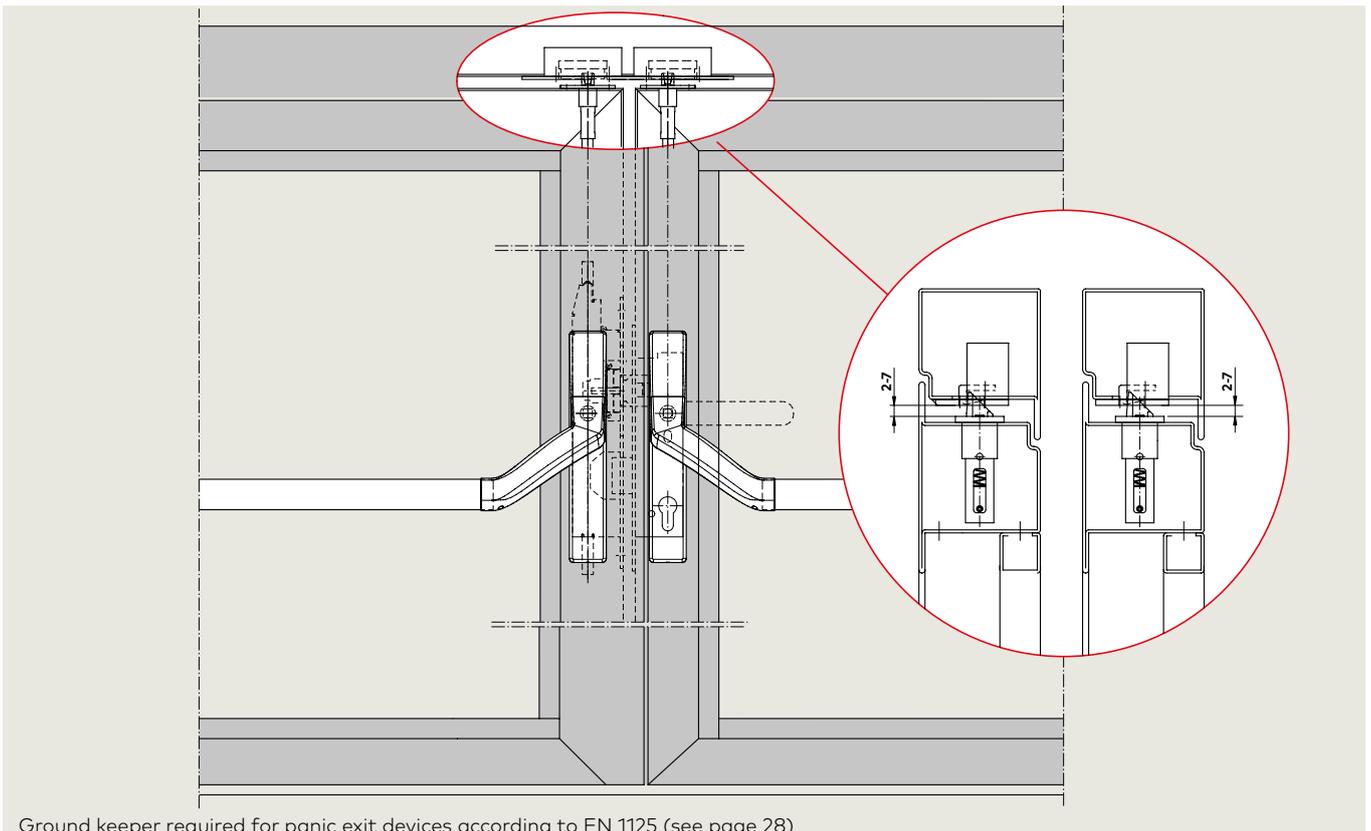
### Horizontal locking device with electric strike on a steel narrow stile door



**Vertical locking device with electric strike on the active and passive door leaves of an aluminium narrow stile door**

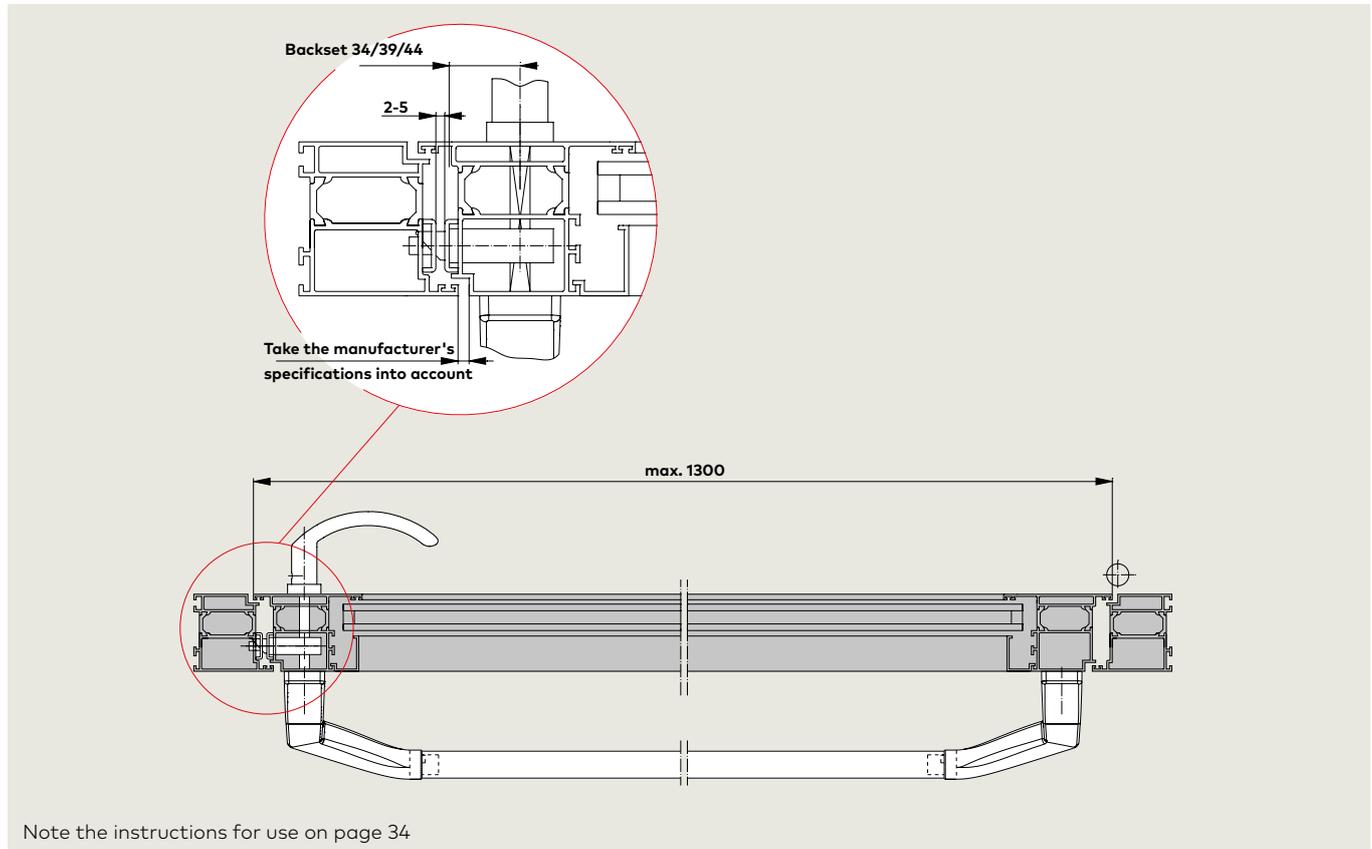


**Vertical locking device with electric strike on the active and passive door leaves of a steel narrow stile door**

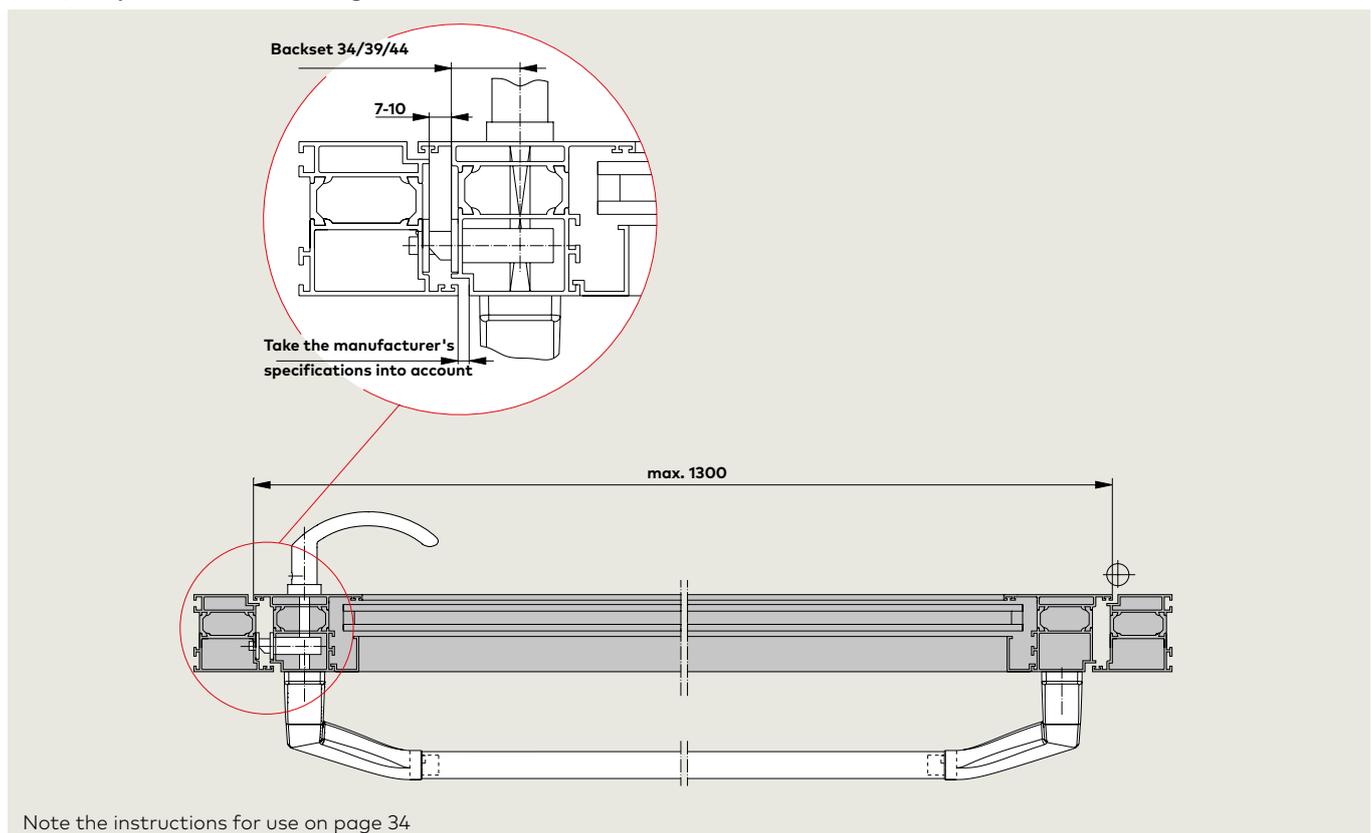


## Application and installation

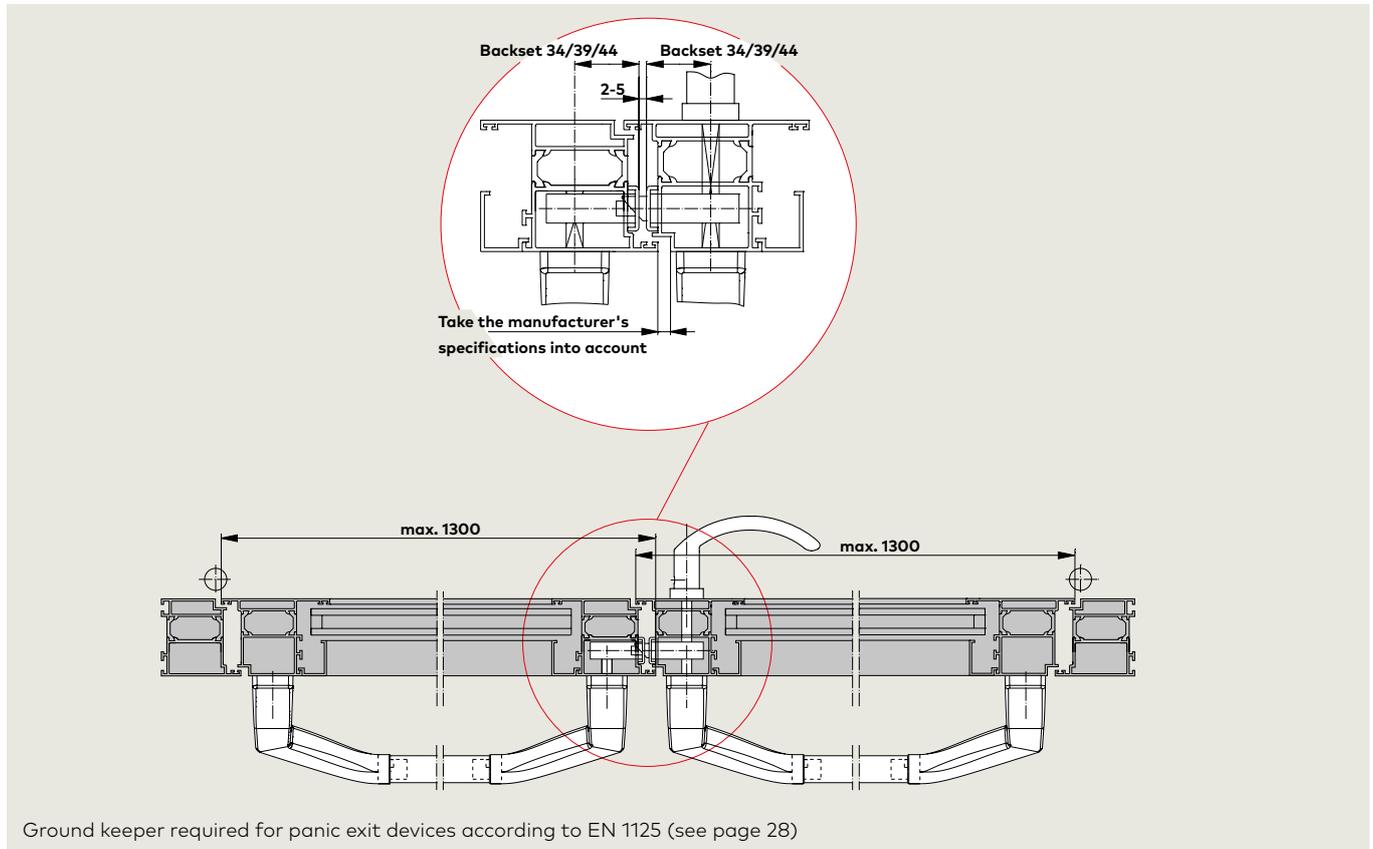
### U faceplate on a single-leaf aluminium narrow stile door



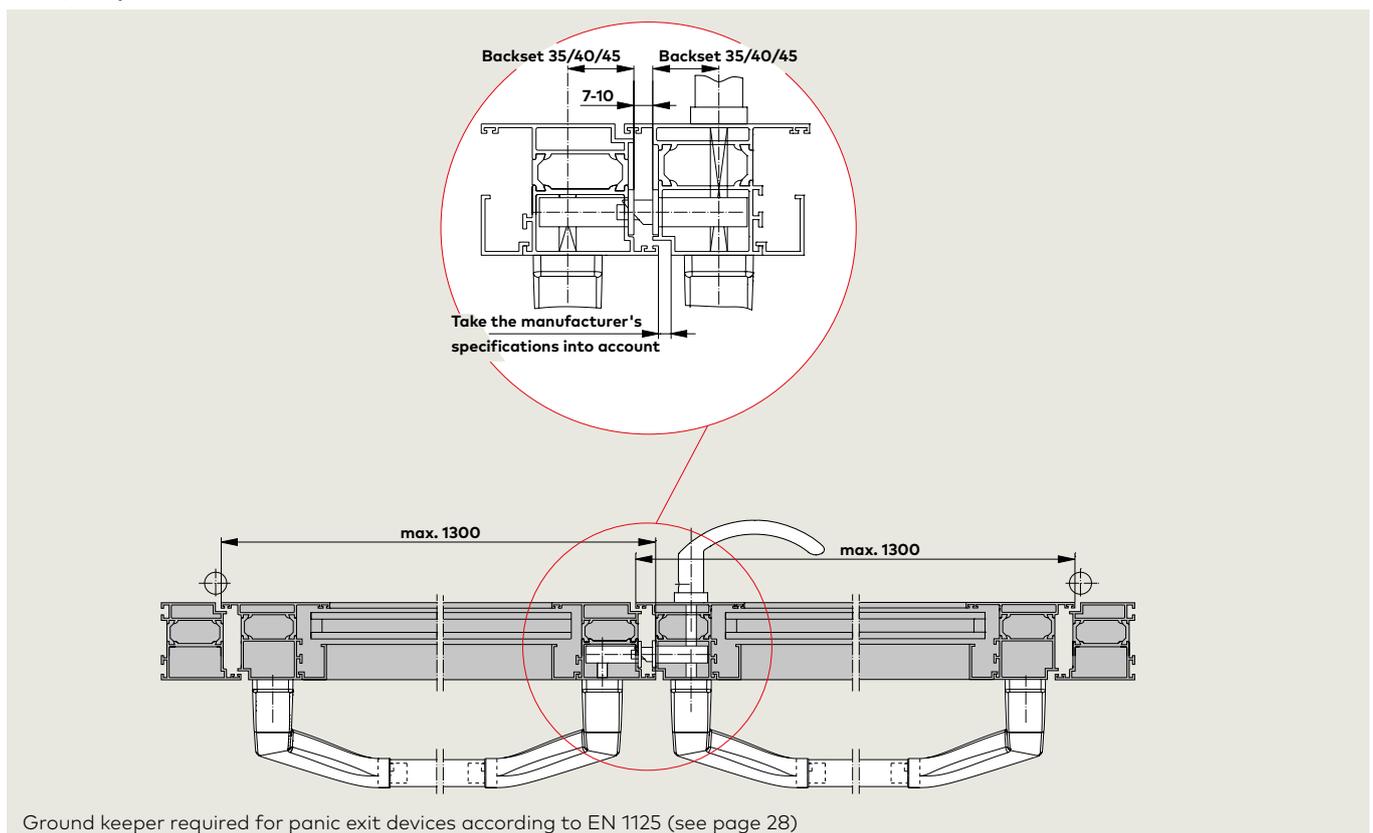
### Latch/bolt protrudes 5 mm on a single-leaf aluminium narrow stile door



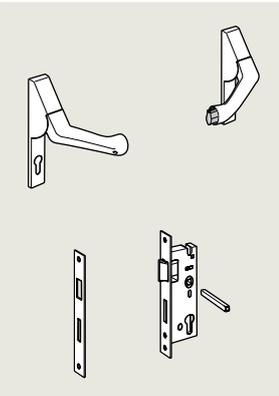
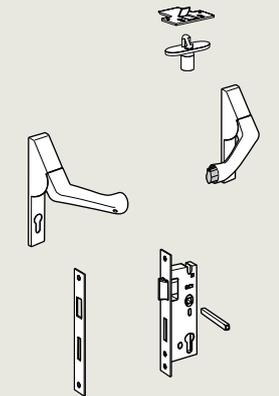
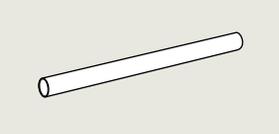
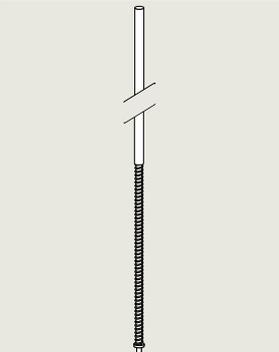
**U faceplate on a double-leaf aluminium narrow stile door**



**Latch/bolt protrudes 5 mm on a double-leaf aluminium narrow stile door**



## Components for single-leaf doors

	Specification text	Article no.
	<p><b>PHA 2500, single-leaf</b>  Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for single-leaf narrow stile doors, door width up to 1,300 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. With anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC). Electrical unlocking possible via "Smoke" or "Fire 447" electric strikes, both with optional feedback. On-site power supply. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned.  All products in the PHA 2500 series carry the <b>CE</b> mark.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul>	<p>35014 2551<b>xx</b>01  35014 2551<b>xx</b>04  35014 2551<b>xx</b>09</p>
	<p><b>PHA 2500 TRS, single-leaf</b>  Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for single-leaf narrow stile doors, door width up to 1,300 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. With anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC), including snap lock. Electrical unlocking possible via "Smoke" or "Fire 447" electric strikes, both with optional feedback. On-site power supply. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned.  All products in the PHA 2500 series carry the <b>CE</b> mark.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul>	<p>35014 2551<b>xx</b>01  35014 2551<b>xx</b>04  35014 2551<b>xx</b>09</p>
	<p><b>PHA 2105 connecting rod</b>  for PHA 2500, door widths up to 1,300 mm</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul>	<p>35014 21050001  35014 21050004  35014 21050009</p>
	<p><b>PHA 2140 TRS drive dead bolt</b>  for PHA 2500 TRS,  tube Ø 10 mm, door height up to 2,500 mm</p>	<p>35014 25150000</p>

**xx** = Lock function version

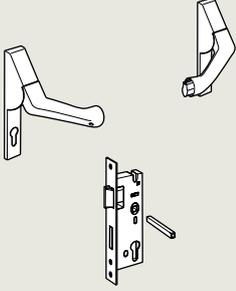
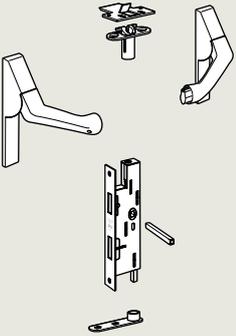
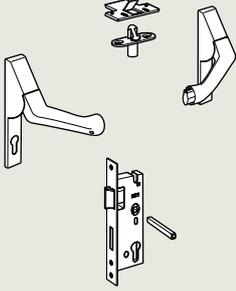
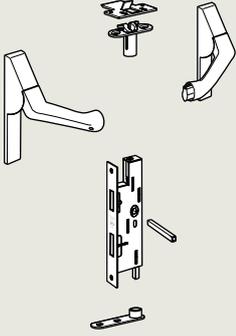
Product	DIN	Backset	Lock function	Order no.
<b>PHA 2500</b> single-leaf, 1-point locking device 	L	35	D Access point	35014 255101xx
			E Change-over	35014 255102xx
			B Switch	35014 255103xx
		40	D Access point	35014 255104xx
			E Change-over	35014 255105xx
			B Switch	35014 255106xx
		45	D Access point	35014 255107xx
			E Change-over	35014 255108xx
			B Switch	35014 255109xx
	R	35	D Access point	35014 255110xx
			E Change-over	35014 255111xx
			B Switch	35014 255112xx
		40	D Access point	35014 255113xx
			E Change-over	35014 255114xx
			B Switch	35014 255115xx
45		D Access point	35014 255116xx	
		E Change-over	35014 255117xx	
		B Switch	35014 255118xx	
<b>PHA 2500 TRS</b> single-leaf, 2-point locking device 	L	35	D Access point	35014 255119xx
			E Change-over	35014 255120xx
			B Switch	35014 255121xx
		40	D Access point	35014 255122xx
			E Change-over	35014 255123xx
			B Switch	35014 255124xx
		45	D Access point	35014 255125xx
			E Change-over	35014 255126xx
			B Switch	35014 255127xx
	R	35	D Access point	35014 255128xx
			E Change-over	35014 255129xx
			B Switch	35014 255130xx
		40	D Access point	35014 255131xx
			E Change-over	35014 255132xx
			B Switch	35014 255133xx
45	D Access point	35014 255134xx		
	E Change-over	35014 255135xx		
	B Switch	35014 255136xx		

Locks with dogging device for lock function E (Change-over) on request  
 For a description of the lock functions, see page 32/33

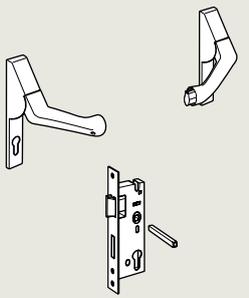
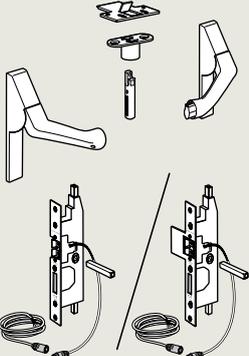
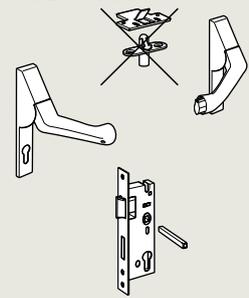
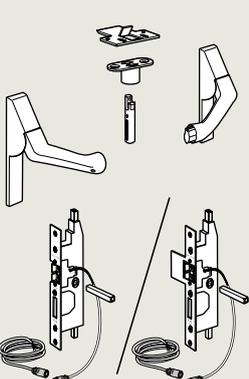
See application note for spindles on page 34

xx = Colour  
 01 = Silver-coloured  
 04 = Stainless-steel  
 finish  
 09 = Special colour

## Components for double-leaf doors

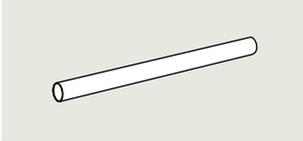
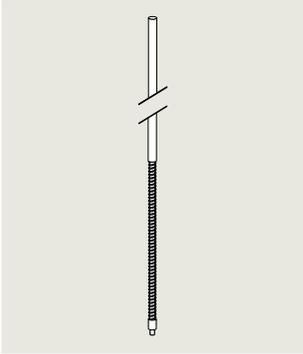
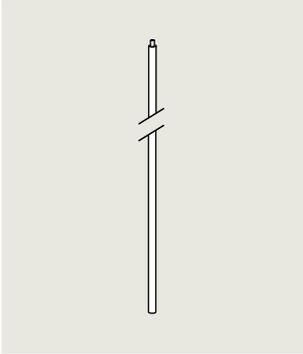
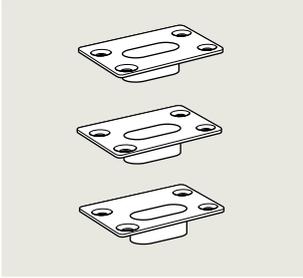
	Specification text	Article no.
<p><b>PHA 2510</b></p> 	<p><b>PHA 2500, double-leaf</b>  Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for double-leaf narrow stile doors, door width up to 1,300 mm, door height up to 2,500 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. Active door leaf with anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC), including snap lock. Passive door leaf with TRS drive dead bolt at the top and lock strike box with drive lock, backset 35/40/45 mm, including switch lock. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned. All products in the PHA 2500 series carry the <b>CE</b> mark.</p>	
<p><b>PHA 2520 TRS</b></p> 	<p><b>PHA 2510, active door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul> <p><b>PHA 2520 TRS, passive door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul>	<p>35014 2552<b>xx</b>01  35014 2552<b>xx</b>04  35014 2552<b>xx</b>09</p>
<p><b>PHA 2510 TRS</b></p> 	<p><b>PHA 2500 TRS, double-leaf</b>  Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for double-leaf narrow stile doors, door width up to 1,300 mm, door height up to 2,500 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. Active door leaf with TRS drive dead bolt at the top and anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC). Passive door leaf with TRS drive dead bolt at the top and lock strike box with drive lock, backset 35/40/45 mm, including switch lock. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned. All products in the PHA 2500 series carry the <b>CE</b> mark.</p>	
<p><b>PHA 2520 TRS</b></p> 	<p><b>PHA 2510 TRS, active door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul> <p><b>PHA 2520 TRS, passive door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> <li><input type="checkbox"/> special colour</li> </ul>	<p>35014 2552<b>xx</b>01  35014 2552<b>xx</b>04  35014 2552<b>xx</b>09</p> <p>35014 2554<b>xx</b>01  35014 2554<b>xx</b>04  35014 2554<b>xx</b>09</p>

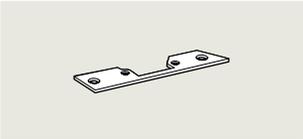
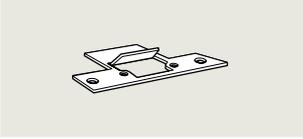
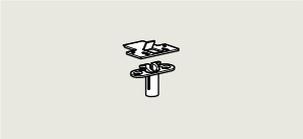
**xx** = Lock function version

	Specification text	Article no.
<p><b>PHA 2510</b></p> 	<p><b>PHA 2500 with electric strike, double-leaf</b>                      Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for double-leaf narrow stile doors, door width up to 1,300 mm, door height up to 2,500 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. Active door leaf with anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC), including snap lock.                      Passive door leaf with TRS drive dead bolt at the top and lock strike box with electric strike, 10–28 V AC/DC, feedback contact, 10 m detachable plug connection cable, backset 35/40/45/50/55/60/65 mm, including spring-loaded snap lock. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned.                      All products in the PHA 2500 series carry the <b>CE</b> mark.</p>	
<p><b>PHA 2521/2522 TRS</b></p> 	<p><b>PHA 2510, active door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul> <p><b>PHA 2521 TRS, passive door leaf, open faceplate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul> <p><b>PHA 2522 TRS, passive door leaf, lug faceplate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul>	<p>35014 2552<b>xx</b>01                      35014 2552<b>xx</b>04</p> <p>35014 2555<b>xx</b>01                      35014 2555<b>xx</b>04</p> <p>35014 2555<b>xx</b>01                      35014 2555<b>xx</b>04</p>
<p><b>PHA 2510 TRS</b></p> 	<p><b>PHA 2500 TRS with electric strike, double-leaf</b>                      Panic exit device with 20 mm deadbolt throw, tested according to EN 1125, with "crossbar" push bar, for double-leaf narrow stile doors, door width up to 1,300 mm, door height up to 2,500 mm, door weight up to 250 kg, standard bar projection ≤ 100 mm according to classification 2, jam-free, no visible mounting screws. Active door leaf with TRS drive dead bolt at the top (use special electric strike plate 9366 or 9361 and spring-loaded snap lock) and anti-panic mortise lock with access, change-over or switching function, 35/40/45 mm backset, prepared for use with an electronic thumbturn cylinder (PC).                      Passive door leaf with TRS drive dead bolt at the top and lock strike box with electric strike, 10–28 V AC/DC, feedback contact, 10 m detachable plug connection cable, backset 35/40/45/50/55/60/65 mm, including spring-loaded snap lock. Approved for installation on fire and smoke doors. Additional certificate of suitability required for the fire or smoke door concerned.                      All products in the PHA 2500 series carry the <b>CE</b> mark.</p>	
<p><b>PHA 2521/2522 TRS</b></p> 	<p><b>PHA 2510 TRS, active door leaf</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul> <p><b>PHA 2521 TRS, passive door leaf, open faceplate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul> <p><b>PHA 2522 TRS, passive door leaf, lug faceplate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silver-coloured</li> <li><input type="checkbox"/> Stainless-steel finish</li> </ul>	<p>35014 2552<b>xx</b>01                      35014 2552<b>xx</b>04</p> <p>35014 2555<b>xx</b>01                      35014 2555<b>xx</b>04</p> <p>35014 2555<b>xx</b>01                      35014 2555<b>xx</b>04</p>

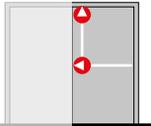
xx = Lock function version

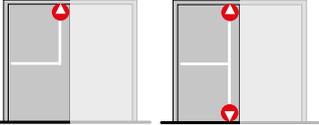
## Components for double-leaf doors

	Specification text	Article no.
	<p><b>PHA 2105 connecting rod</b> for PHA 2510 and PHA 2520, door widths up to 1,300 mm</p> <p><input type="checkbox"/> Silver-coloured <input type="checkbox"/> Stainless-steel finish <input type="checkbox"/> special colour</p>	<p>35014 21050001 35014 21050004 35014 21050009</p>
	<p><b>PHA 2140 TRS drive dead bolt</b> PHA 2510 TRS (active door leaf) and PHA 2520 TRS, 2521 TRS, 2522 TRS (passive door leaf) tube Ø 10 mm, door height up to 2,500 mm</p>	35014 25150000
	<p><b>PHA 2195 TRB bottom drive dead bolt</b> for PHA 2520 TRS (passive door leaf), solid Ø 10 mm, for 1,050 mm lever handle height</p>	35014 21950000
	<p><b>PHA 2122 ground keeper</b> for locking the bottom drive dead bolt on the passive door leaf. Required for emergency exit devices according to EN 1125.</p> <p>Design:</p> <p><input type="checkbox"/> <b>PHA 2122-0</b> (0 mm) <input type="checkbox"/> <b>PHA 2122-1</b> (-2 mm) <input type="checkbox"/> <b>PHA 2122-4</b> (-4 mm)</p>	<p>35014 21220000 35014 21222000 35014 21224000</p>
	<p><b>PHA 2121 adjustable ground keeper</b> for locking the bottom drive dead bolt on the passive door leaf. Required for panic exit devices according to EN 1125.</p>	35014 21210000

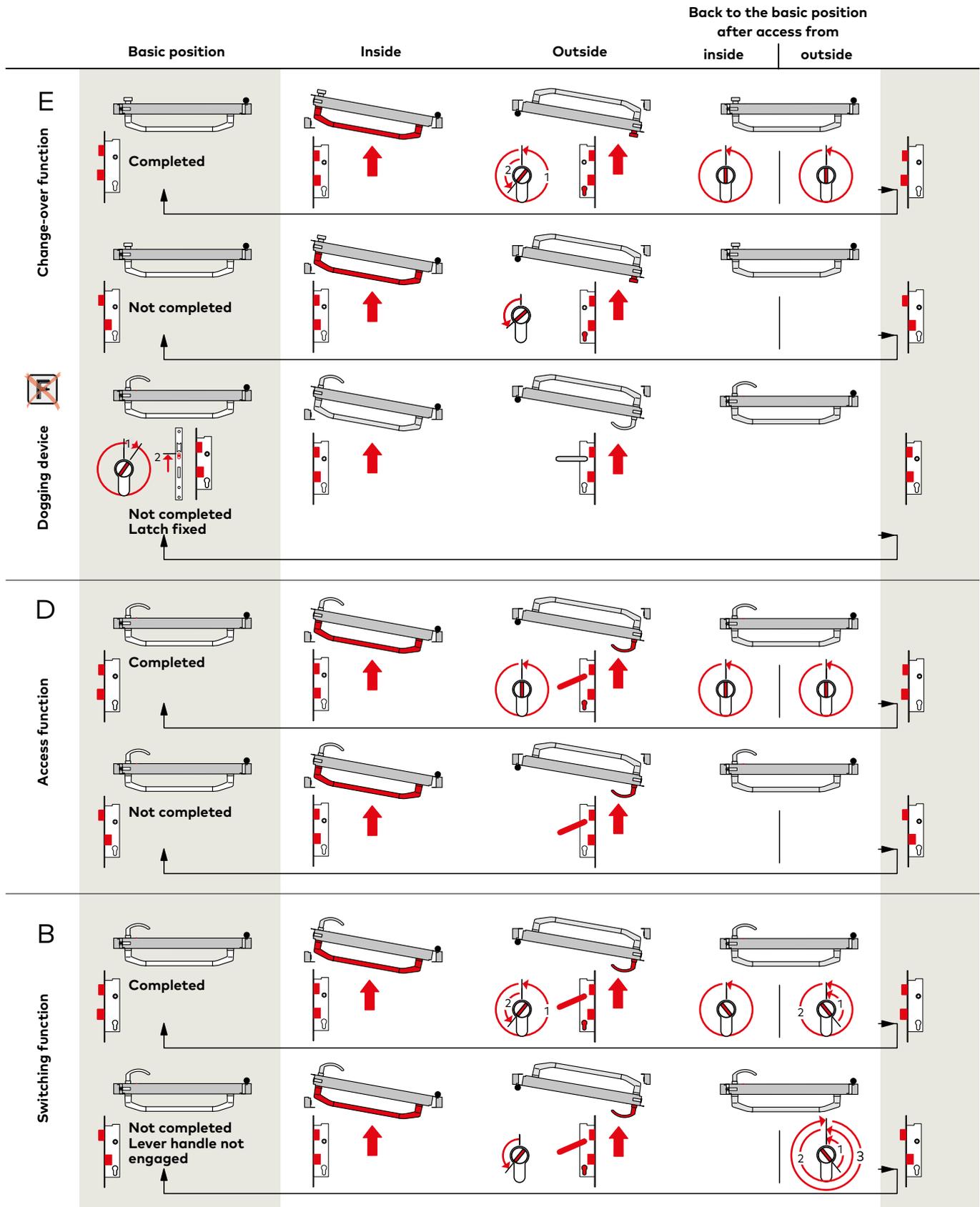
	Specification text	Article no.
	<b>PHA 9361 strike plate for electric strikes</b> in combination with PHA 2510 TRS (active door leaf)	35014 93610000
	<b>PHA 9366 lipped strike plate for electric strikes</b> in combination with PHA 2510 TRS (active door leaf)	35014 93660000
	<b>PHA 9834 spring-loaded snap lock</b> in combination with PHA 2510 TRS (active door leaf) and 9361/9366	35014 98340000
	<b>PHA 9835 switch lock</b> with deadbolt guide plate and glide pins 24 mm faceplate	35014 98350000

## Components for double-leaf doors

Product	DIN	Backset	Lock function	Order no.
<b>PHA 2510</b> double-leaf, active door leaf, 1-point locking device 	L	35	D Access point	35014 2552 <b>01</b> xx
			E Change-over	35014 2552 <b>02</b> xx
			B Switch	35014 2552 <b>03</b> xx
		40	D Access point	35014 2552 <b>04</b> xx
			E Change-over	35014 2552 <b>05</b> xx
			B Switch	35014 2552 <b>06</b> xx
		45	D Access point	35014 2552 <b>07</b> xx
			E Change-over	35014 2552 <b>08</b> xx
			B Switch	35014 2552 <b>09</b> xx
	R	35	D Access point	35014 2552 <b>10</b> xx
			E Change-over	35014 2552 <b>11</b> xx
			B Switch	35014 2552 <b>12</b> xx
		40	D Access point	35014 2552 <b>13</b> xx
			E Change-over	35014 2552 <b>14</b> xx
			B Switch	35014 2552 <b>15</b> xx
		45	D Access point	35014 2552 <b>16</b> xx
			E Change-over	35014 2552 <b>17</b> xx
			B Switch	35014 2552 <b>18</b> xx
<b>PHA 2510 TRS</b> double-leaf, active door leaf, 2-point locking device 	L	35	D Access point	35014 2552 <b>19</b> xx
			E Change-over	35014 2552 <b>20</b> xx
			B Switch	35014 2552 <b>21</b> xx
		40	D Access point	35014 2552 <b>22</b> xx
			E Change-over	35014 2552 <b>23</b> xx
			B Switch	35014 2552 <b>24</b> xx
		45	D Access point	35014 2552 <b>25</b> xx
			E Change-over	35014 2552 <b>26</b> xx
			B Switch	35014 2552 <b>27</b> xx
	R	35	D Access point	35014 2552 <b>28</b> xx
			E Change-over	35014 2552 <b>29</b> xx
			B Switch	35014 2552 <b>30</b> xx
		40	D Access point	35014 2552 <b>31</b> xx
			E Change-over	35014 2552 <b>32</b> xx
			B Switch	35014 2552 <b>33</b> xx
		45	D Access point	35014 2552 <b>34</b> xx
			E Change-over	35014 2552 <b>35</b> xx
			B Switch	35014 2552 <b>36</b> xx
			<b>xx</b>	= Colour
			<b>01</b>	= Silver-coloured
			<b>04</b>	= Stainless-steel finish
			<b>09</b>	= Special colour

Product	DIN	Backset	Lock function	Order no.
<b>PHA 2520 TRS</b> double-leaf, passive door leaf, 1- and 2-point locking device	L/R	35	-	35014 2554 <b>19</b> xx
		40	-	35014 2554 <b>20</b> xx
		45	-	35014 2554 <b>21</b> xx
				<b>xx</b> = Colour <b>01</b> = Silver-coloured <b>04</b> = Stainless-steel finish <b>09</b> = Special colour
<b>PHA 2521 TRS</b> double-leaf, passive door leaf, 1-point locking device, open faceplate	L	35	-	35014 2555 <b>14</b> xx
		40	-	35014 2555 <b>18</b> xx
		45	-	35014 2555 <b>22</b> xx
		50	-	35014 2555 <b>26</b> xx
		55	-	35014 2555 <b>07</b> xx
		60	-	35014 2555 <b>08</b> xx
		65	-	35014 2555 <b>09</b> xx
	R	35	-	35014 2555 <b>13</b> xx
		40	-	35014 2555 <b>17</b> xx
		45	-	35014 2555 <b>21</b> xx
		50	-	35014 2555 <b>25</b> xx
		55	-	35014 2555 <b>10</b> xx
		60	-	35014 2555 <b>11</b> xx
		65	-	35014 2555 <b>12</b> xx
<b>PHA 2522 TRS</b> double-leaf, passive door leaf, 1-point locking device, lug faceplate	L	35	-	35014 2555 <b>16</b> xx
		40	-	35014 2555 <b>20</b> xx
		45	-	35014 2555 <b>24</b> xx
		50	-	35014 2555 <b>28</b> xx
		55	-	35014 2555 <b>01</b> xx
		60	-	35014 2555 <b>02</b> xx
		65	-	35014 2555 <b>03</b> xx
	R	35	-	35014 2555 <b>15</b> xx
		40	-	35014 2555 <b>19</b> xx
		45	-	35014 2555 <b>23</b> xx
		50	-	35014 2555 <b>27</b> xx
		55	-	35014 2555 <b>04</b> xx
		60	-	35014 2555 <b>05</b> xx
		65	-	35014 2555 <b>06</b> xx
				<b>xx</b> = Colour <b>01</b> = Silver-coloured <b>04</b> = Stainless-steel finish
Locks with dogging device for lock function E (Change-over) on request For a description of the lock functions, see page 32/33				
See application note for spindles on page 34				

# Lock functions



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### Change-over function E

For doors where unauthorised opening from the outside must be prevented.

Opening the door from the inside (danger side) is always possible.

In an emergency, the latch and the engaged bolt are retracted simultaneously on the inside using the panic exit device.

The bolt remains retracted and can be locked again with the key.

There is a fixed knob on the outside. The key can be used to unlock the lock and retract the latch. It is also used to re-lock the door.

### Dogging device (option)

For doors where unobstructed access is required.

The key is used to retract the latch. In this position, the locking button below the latch can be pushed upwards. The latch is then fixed in the lock box.

The latch lock can be released again by locking the bolt.

**Not approved for installation on fire and smoke doors.**

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### Access function D

For doors where access from outside is sometimes required. Opening the door from the inside (danger side) is always possible.

After a panic operation, access from the outside is also possible automatically.

In an emergency, the latch and the engaged bolt are retracted simultaneously on the inside using the panic exit device.

The bolt remains retracted after emergency unlocking and can be locked again with the key.

There is a lever handle on the outside. The key can be used to unlock the lock. The latch is retracted using the lever handle.

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### Switching function B

For doors where access from outside is sometimes required.

The door handle can be engaged/disengaged.

Opening the door from the inside (danger side) is always possible.

In an emergency, the latch and the engaged bolt are retracted simultaneously on the inside using the panic exit device.

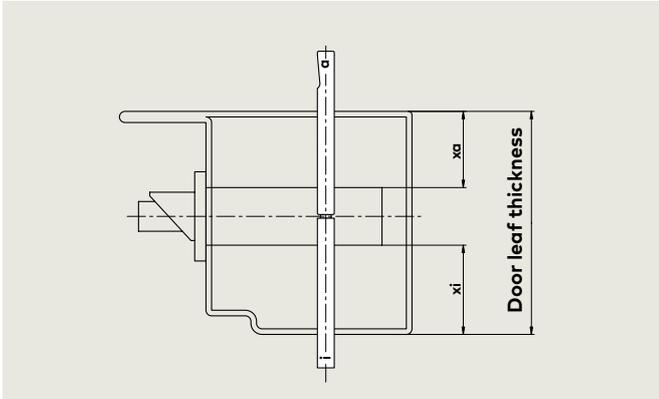
The bolt remains retracted after emergency unlocking and can be locked again with the key.

There is a lever handle on the outside. The key is used to unlock the lock and engage the lever handle. The latch can then be released using the lever handle. The lever handle remains engaged until the door is locked again with the key.

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## Instructions for use

### Spindles

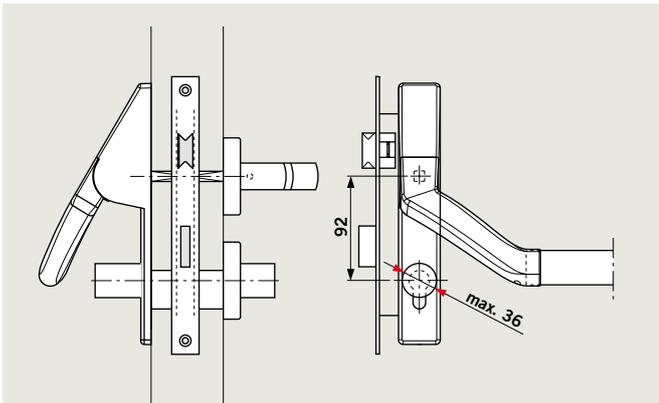


The spindles supplied with the PHA 2500 system are suitable for door leaf thicknesses of 46–76 mm.

For locks with functions D and B (split follower), a central lock position is required for the split spindles.

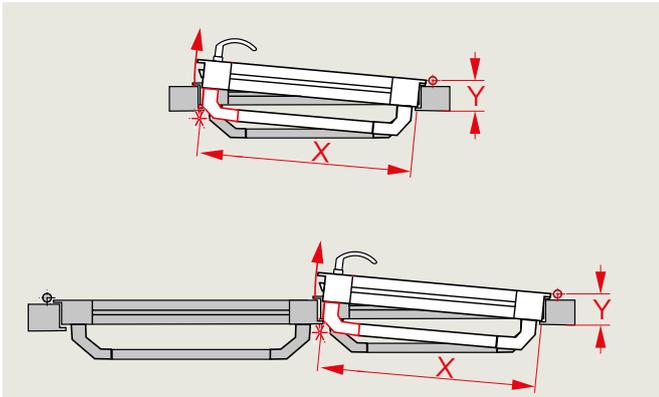
In case of different door leaf thicknesses and/or asymmetrical lock position, the corresponding spindle must also be ordered. When placing your order, specify all dimensions according to the drawing.

### PHA 2500 with electronic knob cylinder



Use of an electronic button cylinder in accordance with the certificate of conformity O432-BPR-0066 dormakaba PHA 2500.

### Door situations

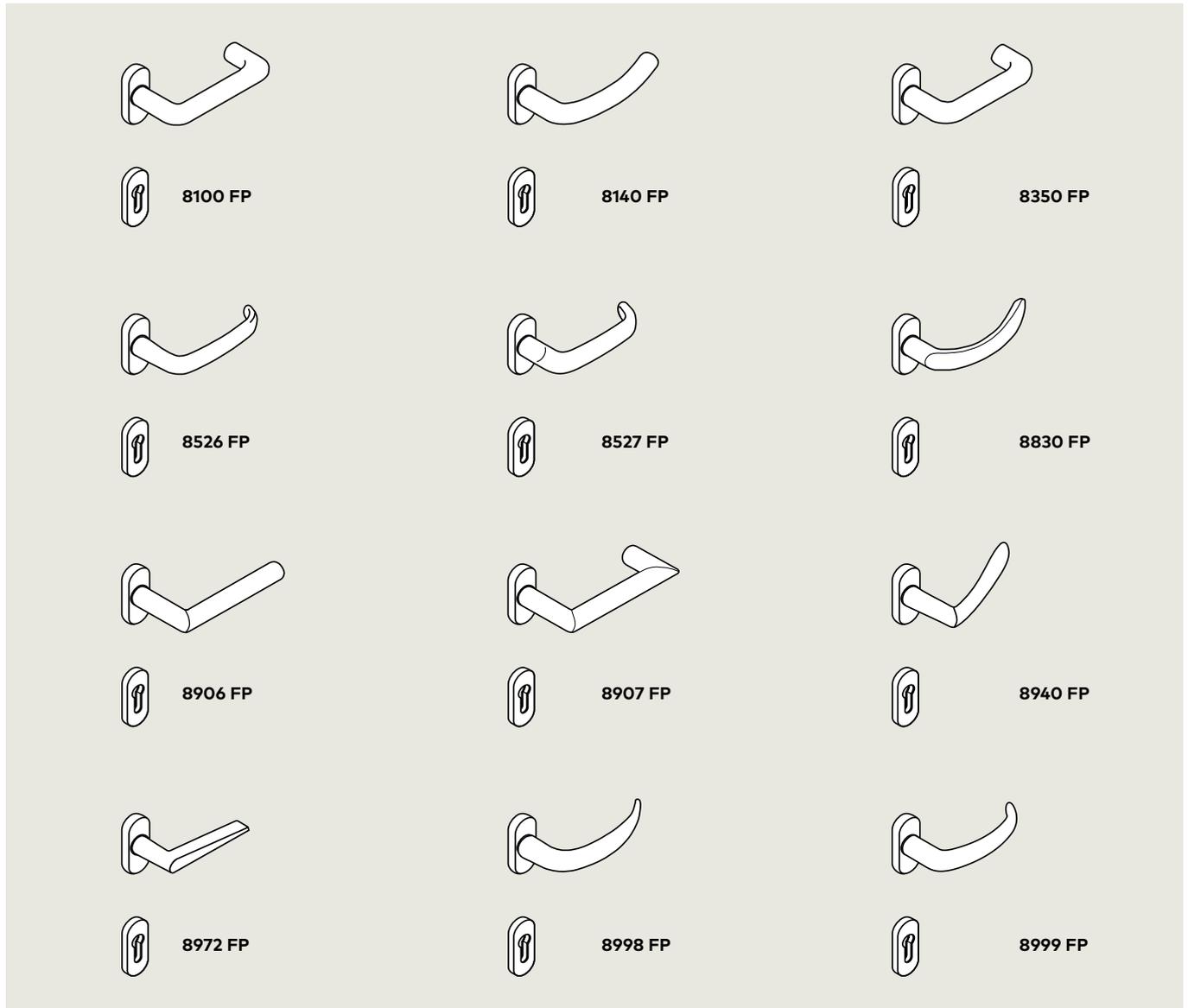


In extreme door situations with a door width  $X < 1,000$  mm and a hinge offset  $Y > 90$  mm, it may be the case that the exit device cannot be installed based on standard measurements.

dormakaba will provide you with installation suggestions on request.

# Door fittings

## Fittings for narrow stile doors



## Fixed knobs for narrow stile doors



For other lever handle versions, see the Premium brochure.

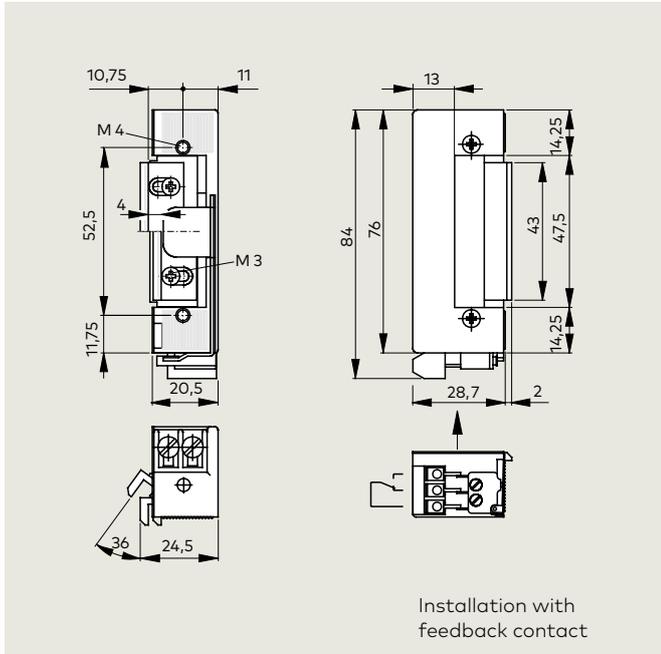
Door fittings with narrow roses on narrow stile doors according to EN 1906, DIN 18273 and EN 1634-1 (for fire and smoke doors).

For combination with the PHA 2500 system, the 9 mm version of the lever handle must be used.



## Electric strike, single-leaf doors

### Smoke series



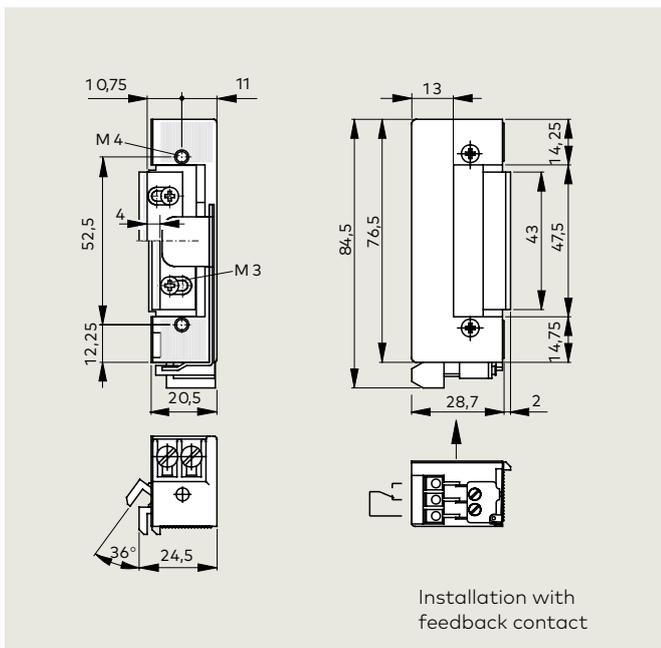
#### Specification text

Smoke series electric safety strike for use on smoke doors, with adjustable latch, suitable for rebate and non-rebated doors, DIN-L and DIN-R.

#### Operating current

- 6-12 V AC/DC
- 12 V AC
- 12 V DC
- 24 V DC
- with feedback

### Fire 447 series



#### Specification text

447 series electric safety strike for use in any position on fire and smoke doors, with adjustable latch, suitable for rebate and non-rebated doors, DIN-L and DIN-R.

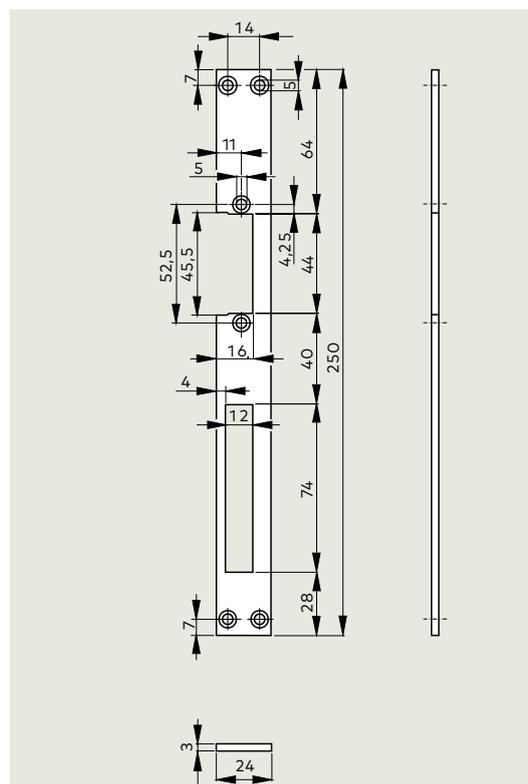
#### Operating current

- 6-12 V AC/DC
- 12 V AC
- 12 V DC
- 24 V DC
- with feedback

Series	Voltage	Unlocking (E)	Locking (A)	Feedback (RR)	Easy Adapt	Type	Article no.
Smoke	6-12 V AC/DC	-	-	-	-		15117006
		-	-	●	-	RR	15117906
	12 V AC	-	-	-	-		15117011
		-	-	●	-	RR	15117911
	12 V DC 100% ED	-	-	-	-		15117012
		-	-	●	-	RR	15117912
24 V DC 100% ED	-	-	-	-		15117024	
	-	-	●	-	RR	15117924	
Fire 447	6-12 V AC/DC	-	-	-	-		15147106
		-	-	●	-	RR	15147506
	12 V AC	-	-	-	-		15147111
		-	-	●	-	RR	15147511
	12 V DC 100% ED	-	-	-	-		15147112
		-	-	●	-	RR	15147512

Maximum load current: 48 V, 1 A (RR version) ● = Yes -- = No

**FLM 24**



Flat strike plate made of stainless steel, DIN-R and DIN-L, can be used in combination with Smoke and Fire 447 series strikes

**Order no. 15180224**







**Door  
Hardware**



**Electronic  
Access & Data**



**Mechanical  
Key Systems**



**Lodging Systems**



**Entrance  
Systems**



**Interior Glass  
Systems**



**Safe Locks**



**Service**

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