

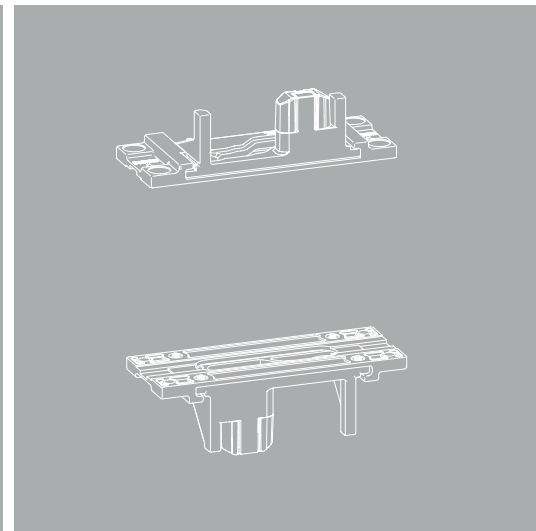
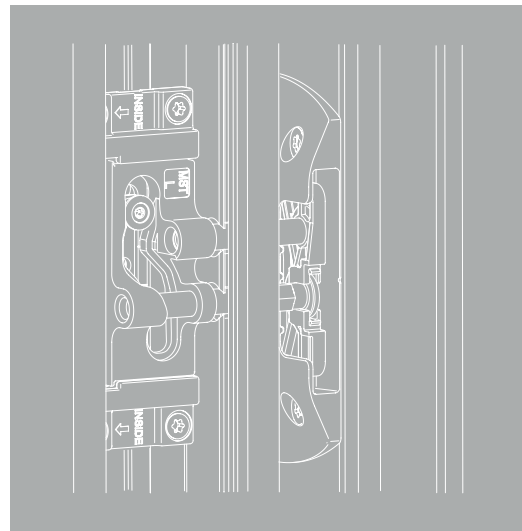
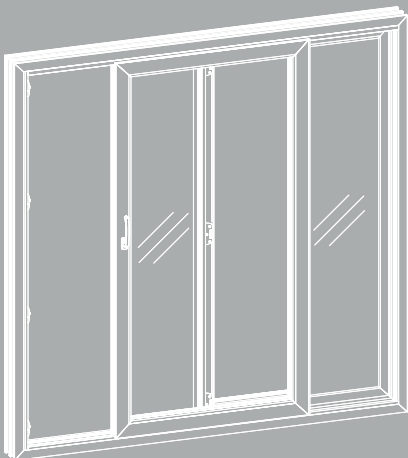
For use by specialist companies only!



Read carefully before use/installation!  
Keep for future reference!

# Move PS

Parallel sliding hardware



## Installation instructions

Salamander evolutionDrive Plus+

Scheme C Profile Side version not yet available  
- approval by system house still needs to be clarified

# Contents

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Intended use, prerequisites, User information, function and security	5
Description, abbreviations/terms, Conversion RH/RW to SRH/SRW and SRH/SRW to RH/RW, Note for elements with increased security requirements	6
Areas of application, mounting screws	7
Packaging units Scheme A / C 1-sash	8
Overview of hardware parts and required tools Scheme A / C 1-sash	9
Packaging units Scheme C 2-sash	10
Overview of hardware parts and required tools Scheme C 2-sash	11
Preparation of sash frame	12
Assembly on the sash	15
Cutting rails to length and assembly of central lock	15
Handles, top/bottom latches, rollers, guides	17
Pos. drilling jig for locks MST on the non-handle side	20
Cutting/Assembly of additional profiles Scheme A	22
Cutting/Assembly of additional profiles Scheme C	23
Striker plate assembly	24

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## Contents (contd.)

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Engaging the sash	26
Correct the position of striker plates on the handle side, Check run-in of locks MST	28
Positioning of the drilling jig for handle-side striker plates	29
Upper rebate assembly	30
Rubber mushroom buffer assembly	31
Optional casement stop assembly	32
Optional handle grip assembly	34
Optional handle assembly 161 EG-PCI / 160 EG-PCO	35
Sash pressure adjustment	38
Vertical cross-section overview	39
Handle horizontal cross-section	40
Middle joint horizontal cross-section	41
Upper guide vertical cross-section	42
Rollers vertical cross-section	43
Upper lock(s) vertical cross-section	44
Lower lock(s) vertical cross-section	45
Scheme C horizontal cross-section	46

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## Intended use

The Move PS parallel-slide fittings are only intended for use in non-portable buildings. They are used for horizontal opening and closing of windows and casement doors. The elements must be installed perpendicular and never in an inclined position.

## Prerequisites

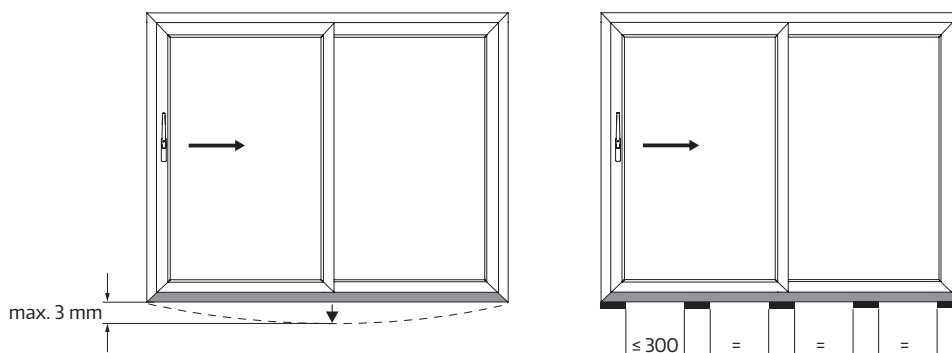
- These installation instructions and the installation of the fittings require specialist knowledge acquired during completed training in at least one of the following occupations: joiner, metal worker for construction technology, window and glass façade builder.
- The areas of use specified on page page 7 apply to the Move PS fittings. Specifications for screw-in speeds and torques are binding.
- Use **sufficiently long screws** to fasten **the fitting parts**. They must reach as far as **the steel reinforcement** in PVC profiles.
- **Follow the profile manufacturer's processing guidelines each time.**
- You must not paint the frame profile or the guide and running tracks.
- The panels may **only** be surface-treated before fitting parts are installed. Subsequent surface treatment can limit the correct functioning of fitting parts. In such cases, any warranty claims against the hardware manufacturer are void.
- The steel fitting parts described in these assembly instructions are clear-passivated and sealed as per EN 12329. They must not be used in environments with aggressive or corrosive airborne substances.
- Keep the running track and all joints free of deposits and dirt to prevent damage to the fitting and ensure optimum function. **Protect the fitting, especially against cement or plaster residues.**
- Do not use acid-curing sealants as these can cause corrosion to the fitting parts.
- Use acid- and solvent-free oils and greases.
- Avoid exposing the fittings directly to moisture and ensure the fitting does not come into contact with acidic cleaning agents.
- The hardware manufacturer is not liable for any malfunctions or damage to the hardware and windows or patio doors installed with the fitting if these are due to combined use with other fitting parts, an inadequate tendering procedure and non-observance of the installation instructions or application diagrams.
- The fabricator is responsible for ensuring observance of the functional dimensions specified in these installation instructions, flawless installation of fittings and secure fastening of all components.

## User information

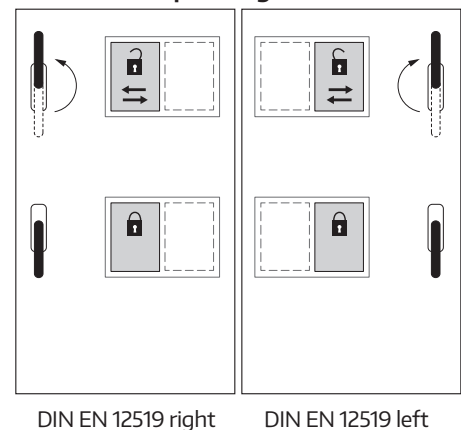
- Hand over the relevant end-user maintenance and instruction manual with the product.
- Position the operating sticker (slide direction DIN left or DIN right) so it is clearly visible on the installed window sash.
- For MULTI-MATIC central lock - the operating label can be found in the „Move PS“ basic box.
- **Please note the 'Specifications and notes on the product and liability information (VHBH)'. Inform the end user about the contents of the „Guidelines and instructions for End Users (VHBE)'.**
- Retain these assembly instructions.

## Function and Security

- To ensure the function and security of the element, the maximum permissible deflection of the lower frame installation is 3 mm.
- Pack the threshold along the entire construction depth at least every 300 mm.



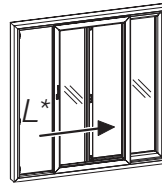
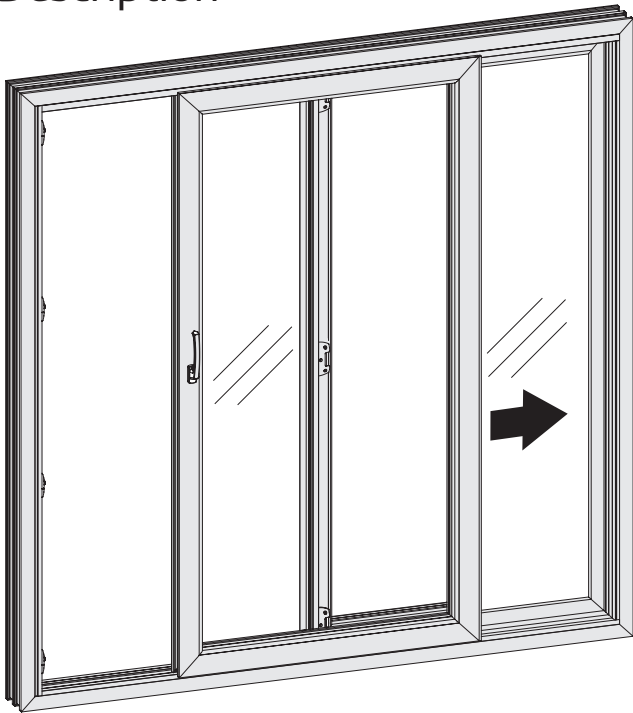
### Operating stickers



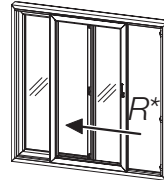
DIN EN 12519 right

DIN EN 12519 left

## Description



\* Left-hand version  
= DIN EN 12519 right  
(opens to the right)



\* Right-hand version  
= DIN EN 12519 left  
(opens to the left)

The illustrations in this assembly manual refer to the left-hand version (DIN EN 12519 on the right).

The dimensions are to be applied mirrored if used on the right-hand version (DIN EN 12519 left).

All dimensions in this manual are in millimetres (mm).

### NOTES:

- This manual describes the installation with MULTI-MATIC central locking system. If a third-party lock is used, lengths, mounting dimensions, drilling, etc. must be implemented according to the lock manufacturer's instructions.
- These instructions describe all assembly steps for the assembly of a Move PS element.
- The hardware must be greased/oiled before commissioning (see maintenance and operating instructions).

## Abbreviations/Terms

FW	Frame width (BRB)	Sz.	Size
FH	Frame height (BRH)	Handle FEG	Handle for flush encased gearbox
B	Backset (D)	Handle FEG-S	Handle for flush encased gearbox, lockable
FEG	Flush encased gearbox (EG)	UEFF	Upper edge prefabricated floor (OKFF)
SB	Sash width (FB)	PCO	Profile cylinder, outer (PzA)
SRW	Sash rebate width (FFB)	PCI	Profile cylinder, inner (PzI)
SRH	Sash rebate height (FFH)	RC 2	Resistance Class 2 (against burglary)
SRE	Sash rebate edge (FFK)		
SW	Sash weight (FG)		
SH	Sash height (FH)		

## Conversion SH/SW to SRH/SR

SRH = SH - 96  
SRW = SW - 96

## Conversion SRH/SRW to SH/SW

SH = SRH + 96  
SW = SRW + 96

## Note for elements with increased security requirements

The basis for the RC 2 version is the burglar resistance fitting matrix from MACO Systemtechnik EH.  
For the RC 2 version, Günther Aichinger Systemtechnik EH must be contacted.

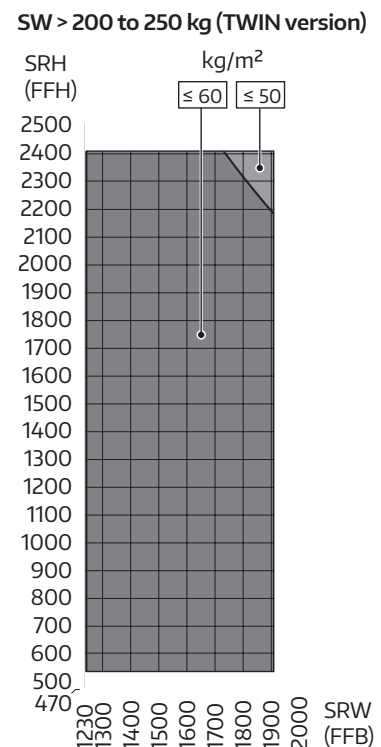
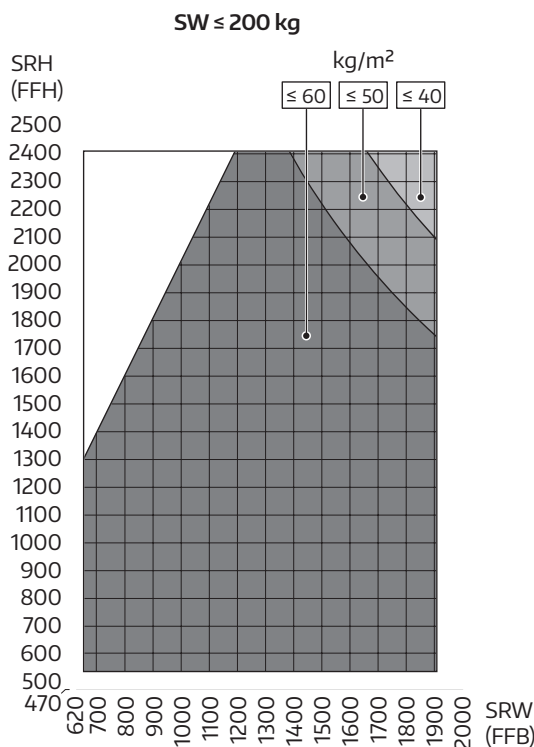
## Application areas

The limits of the areas of application listed here are binding and must not be deviated from. Continue to observe the permissible application sizes, manufacturing specifications, and fabrication policies as set by the profile manufacturer.

### Move PS

Sash rebate width (SRW) [mm]	654 to 1904 (SW ≤ 200 kg) 1230 to 1904 (SW > 200 ... 250 kg)
Sash rebate height (SRH) [mm]	534 to 2404
Sash weight (SW)	[kg] max. 200/250

SRH: SRW = max. 2 : 1



## Mounting screws for the hardware (not included)

for part(s)	Number	Size	Drill diameter	Drive
Rollers (10)	8/16	4.0 x 22 <sup>5</sup>	3.2	freely selectable
Central locking system (12, 13, 14, 15, 16)	... <sup>1</sup>	4.0 x ... <sup>2</sup>	-	
Striker plates handle side (4) (only with RC 2 version)	2 ... 10	4.8 x 22	4.2	
Upper lock (3) / lower lock (11)	8 ... 24 (40 <sup>3</sup> )	4.0 x 22 <sup>5</sup>	3.2	
Lock MST (7)	4 ... 12 (24 <sup>3</sup> )	4.0 x 22 <sup>5</sup>	3.2	
Striker plate MST (8)	3 ... 9 (18 <sup>3</sup> )	4.8 x 28 <sup>6</sup>	4.2	
Upper guide, left (1) / upper guide, right (2)	8	4.0 x 22 <sup>5</sup>	3.2	
Drive gear holder (26) <sup>7</sup>	1	4.0 x 22 <sup>5</sup>	3.2	
Buffer stop Scheme C (27)	2	4.0 x ... <sup>2</sup>	3.2	
Roller/guide/frame profile (construction side, not included)	... <sup>4</sup>	4.0 x 22 <sup>5</sup>	3.2	
Track cover shim (construction side, not included)	4	4.0 x 50	-	

<sup>1</sup>) depending on the lock

<sup>2</sup>) The length must be chosen according to the profile used

<sup>3</sup>) for RC 2 version

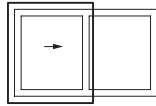
<sup>4</sup>) depending on the element size

<sup>5</sup>) alternatively, screws with countersunk head 3.9 x 25 can also be used

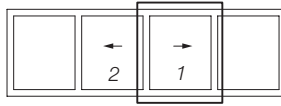
<sup>6</sup>) alternatively, screws with countersunk head 4.8 x 32 can also be used

<sup>7</sup>) only for short drive gears without screw holes

Scheme A



Scheme C: 1-sash

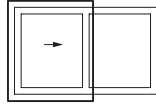


## Packaging units Scheme A / C 1-sash

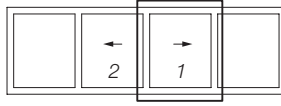
	<p>1 1x</p> <p>2 1x</p>	<p>3 1x</p> <p>11 1x</p>	<p>4 2x</p> <p>5 2x</p>	<p>Maintenance and operating instructions</p> <p>Operating stickers</p>							
	<p>8</p> <table border="1"> <thead> <tr> <th>SRH</th> <th>8</th> </tr> </thead> <tbody> <tr> <td>470 ... 1150 mm</td> <td>2x</td> </tr> <tr> <td>1151 ... 2360 mm</td> <td>3x</td> </tr> <tr> <td>2361 ... 2500 mm</td> <td>4x</td> </tr> </tbody> </table>	SRH	8	470 ... 1150 mm	2x	1151 ... 2360 mm	3x	2361 ... 2500 mm	4x		
SRH	8										
470 ... 1150 mm	2x										
1151 ... 2360 mm	3x										
2361 ... 2500 mm	4x										
<p>SW &gt; 200 kg</p>	<p>10 2x</p>										
	<p>6 2x</p> <p>7 2x</p> <table border="1"> <thead> <tr> <th>SRH</th> <th>6</th> <th>7</th> </tr> </thead> <tbody> <tr> <td>1151 ... 2360 mm</td> <td>1x</td> <td></td> </tr> <tr> <td>2361 ... 2500 mm</td> <td></td> <td>2x</td> </tr> </tbody> </table>	SRH	6	7	1151 ... 2360 mm	1x		2361 ... 2500 mm		2x	
SRH	6	7									
1151 ... 2360 mm	1x										
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	<p>4 2x</p> <p>5 2x</p> <table border="1"> <thead> <tr> <th>SRH</th> <th>4</th> <th>5</th> </tr> </thead> <tbody> <tr> <td>901 ... 1700 mm</td> <td>1x</td> <td></td> </tr> <tr> <td>1701 ... 2500 mm</td> <td></td> <td>2x</td> </tr> </tbody> </table>	SRH	4	5	901 ... 1700 mm	1x		1701 ... 2500 mm		2x	<p>15 SRH &gt; 2400 mm</p> <p>12</p> <p>16</p> <p>15 SRH 1401 ... 1870 mm: 1x SRH 2111 ... 2360 mm: 1x</p> <p>15 SRH 1871 ... 2360 mm: 1x SRH &gt; 2360 mm: 2x</p>
SRH	4	5									
901 ... 1700 mm	1x										
1701 ... 2500 mm		2x									
	<table border="1"> <thead> <tr> <th>SRW</th> <th>3</th> <th>11</th> </tr> </thead> <tbody> <tr> <td>1151 ... 1870 mm</td> <td>1x</td> <td></td> </tr> <tr> <td>1871 ... 2000 mm</td> <td></td> <td>2x</td> </tr> </tbody> </table> <p>3</p> <p>11</p>	SRW	3	11	1151 ... 1870 mm	1x		1871 ... 2000 mm		2x	
SRW	3	11									
1151 ... 1870 mm	1x										
1871 ... 2000 mm		2x									
	<p>13 4x</p> <p>14 2x</p> <p>SRW &gt; 1400 mm</p> <p>15 2x</p> <p>26 1x</p>										
	<p>161 FEG</p> <p>17</p> <p>161 FEG-S</p> <p>18</p>										



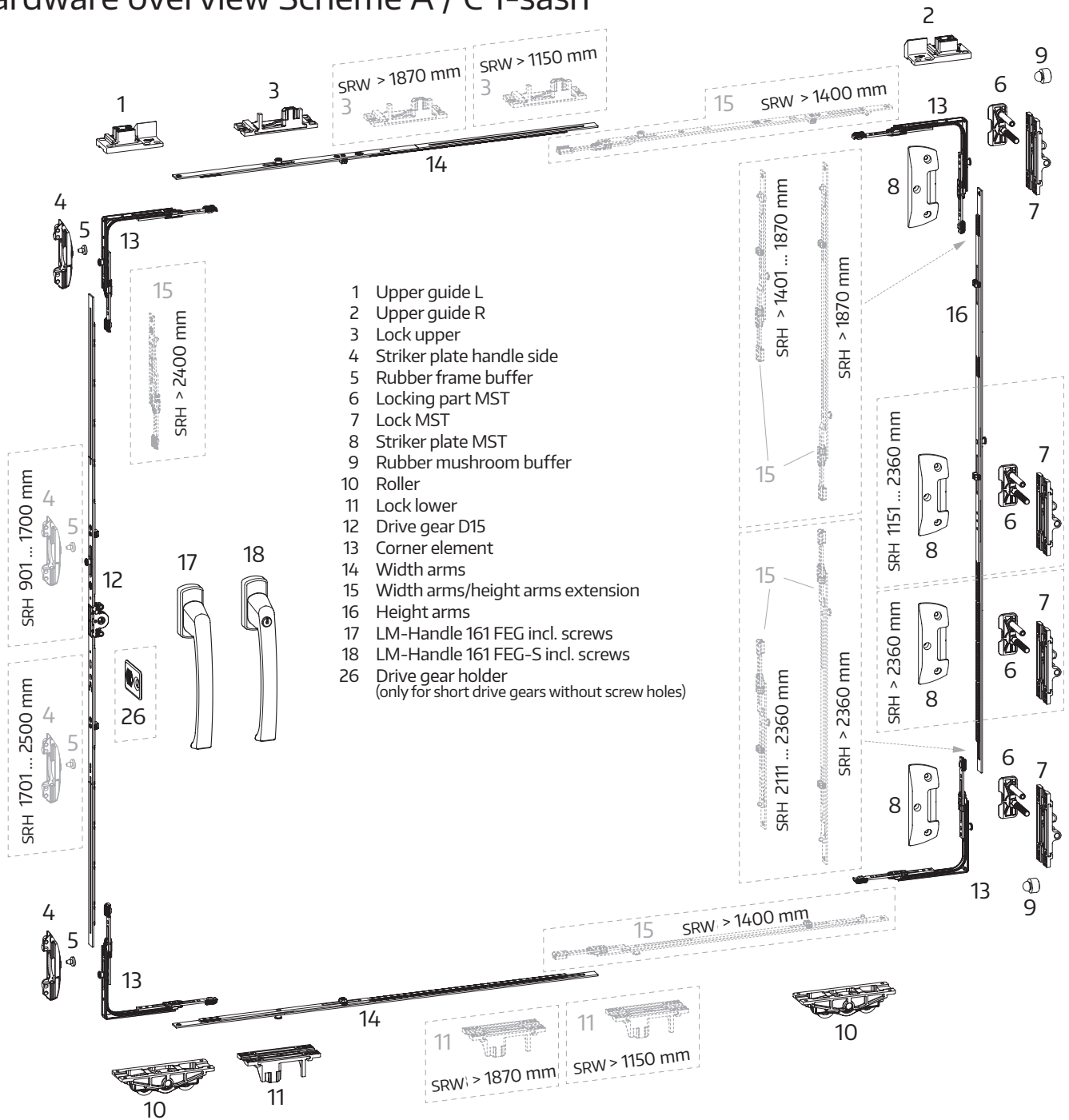
Scheme A



Scheme C: 1-sash

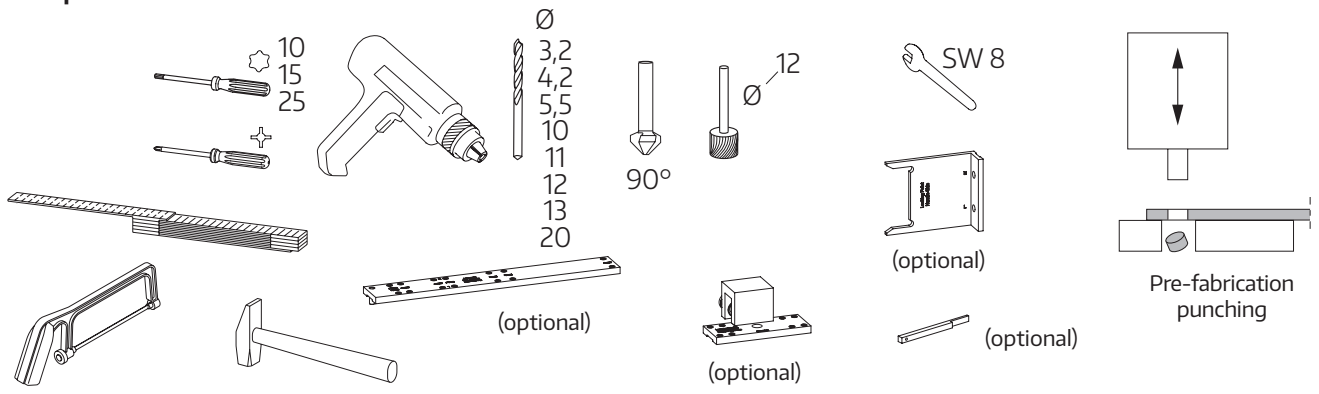


# Hardware overview Scheme A / C 1-sash

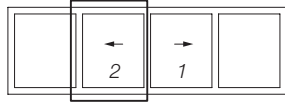


- 1 Upper guide L
- 2 Upper guide R
- 3 Lock upper
- 4 Striker plate handle side
- 5 Rubber frame buffer
- 6 Locking part MST
- 7 Lock MST
- 8 Striker plate MST
- 9 Rubber mushroom buffer
- 10 Roller
- 11 Lock lower
- 12 Drive gear D15
- 13 Corner element
- 14 Width arms
- 15 Width arms/height arms extension
- 16 Height arms
- 17 LM-Handle 161 FEG incl. screws
- 18 LM-Handle 161 FEG-S incl. screws
- 26 Drive gear holder  
(only for short drive gears without screw holes)

## Required tools



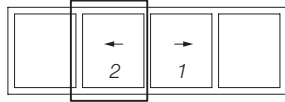
Scheme C: 2-sash



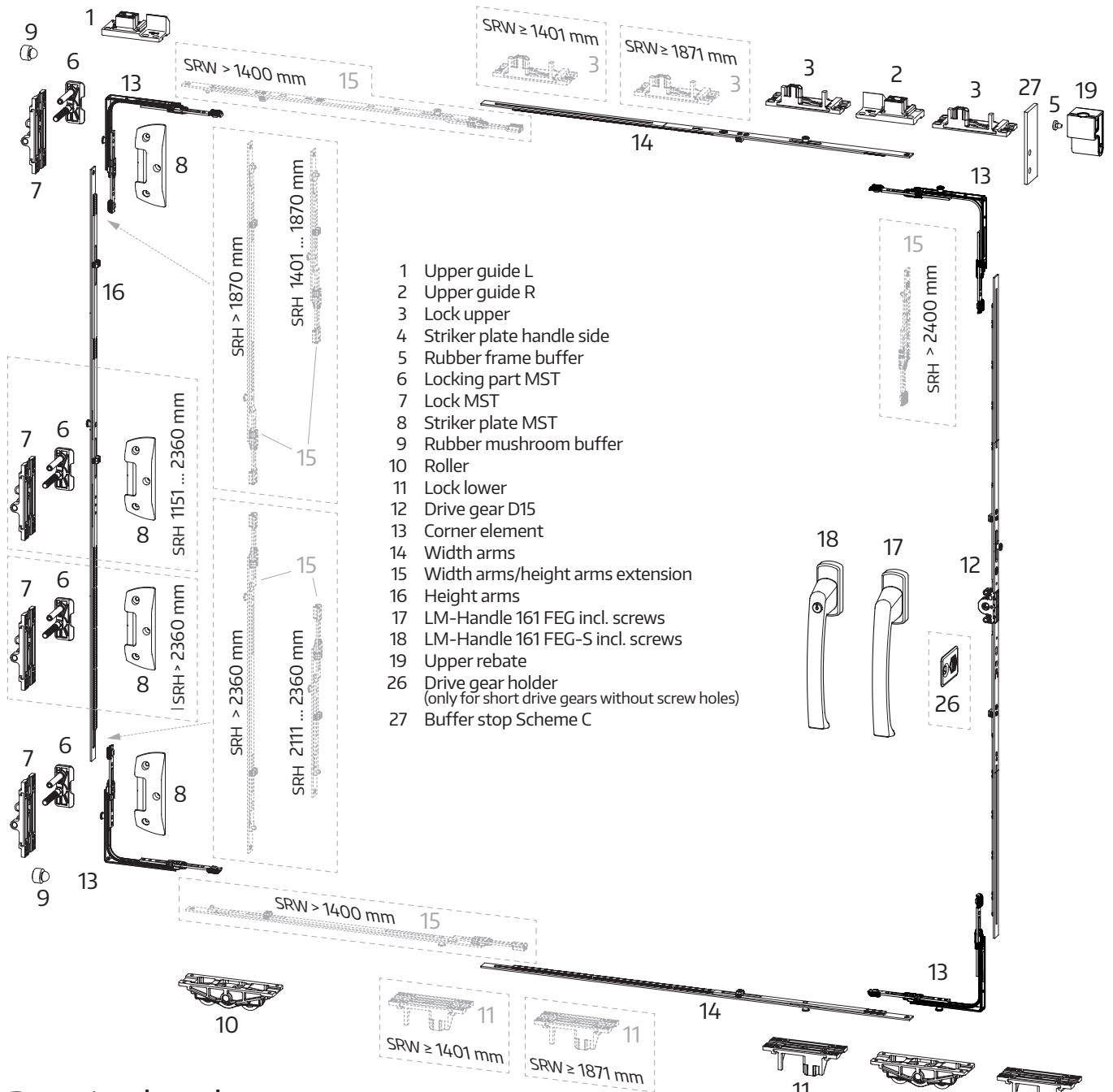
Packaging units Scheme C 2-sash

	<p>1x 1x</p>	<p>2x 2x</p>	<p>2x 2x</p>									
	<p>2x</p>	<p>2x</p>	<p>Maintenance and operating instructions</p> <p>Operating stickers</p>									
	<table border="1" data-bbox="486 761 782 896"> <tr> <th>SRH</th> <th>8</th> </tr> <tr> <td>470 ... 1150 mm</td> <td>2x</td> </tr> <tr> <td>1151 ... 2360 mm</td> <td>3x</td> </tr> <tr> <td>2361 ... 2500 mm</td> <td>4x</td> </tr> </table>	SRH	8	470 ... 1150 mm	2x	1151 ... 2360 mm	3x	2361 ... 2500 mm	4x			
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	<p>1x 1x</p>		<p>1x</p>									
	<table border="1" data-bbox="367 1444 662 1556"> <tr> <th>SRW</th> <th>3</th> <th>11</th> </tr> <tr> <td>1401 ... 1870 mm</td> <td></td> <td>1x</td> </tr> <tr> <td>1871 ... 2000 mm</td> <td></td> <td>2x</td> </tr> </table>	SRW	3	11	1401 ... 1870 mm		1x	1871 ... 2000 mm		2x		<p>SRH &gt; 2400 mm</p> <p>SRH 1401 ... 1870 mm: 1x SRH 2111 ... 2360 mm: 1x</p> <p>SRH 1871 ... 2360 mm: 1x SRH &gt; 2360 mm: 2x</p>
SRW	3	11										
1401 ... 1870 mm		1x										
1871 ... 2000 mm		2x										
	<p>4x 2x 2x 1x</p> <p>SRW &gt; 1400 mm</p>											
	<p>161 FEG 17 161 FEG-S 18</p>											

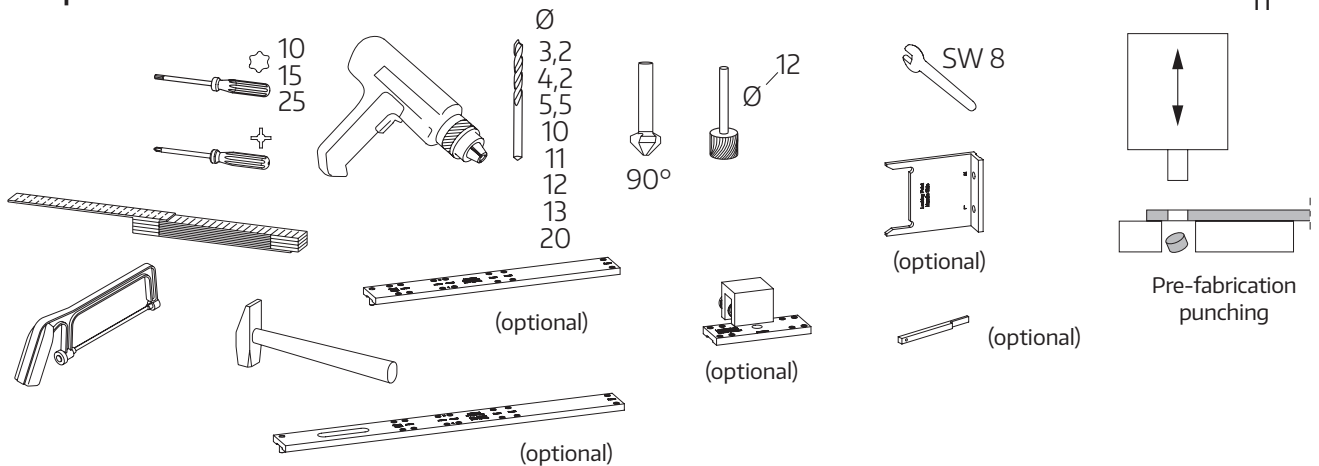
Scheme C: 2-sash



Hardware overview Scheme C 2-sash



Required tools



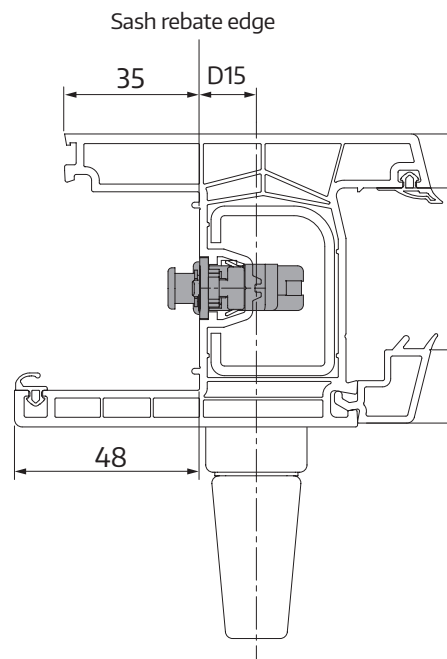
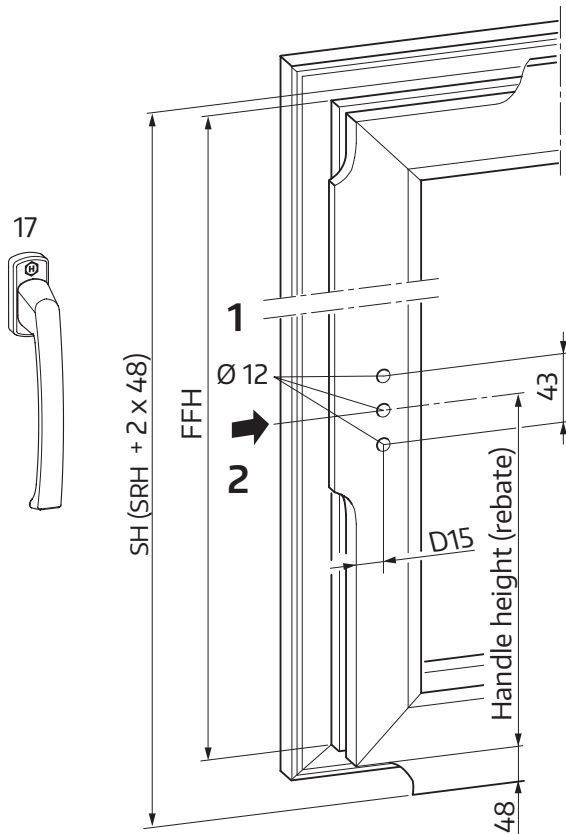
# Preparation of sash frame

## Handle holes and drive gear milling (161 FEG/162 FEG)\*

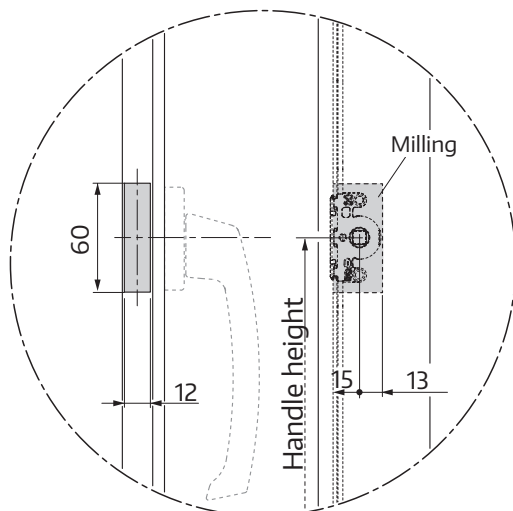
- (1) Mark out drill holes and drill at  $\varnothing 12$ .
- (2) Perform milling for the drive gear (see detail).

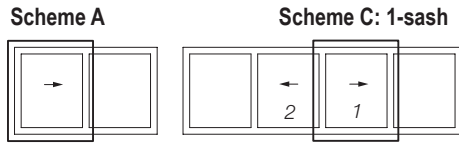
) for handle 161 FEG-PCI / 160 FEG-PCO or handle shell, see separate sections

SRH	Handle height (rebate)
470 ... 800	1/2 SRH
801 ... 1250	1/2 SRH
1251 ... 1350	1/2 SRH
1351 ... 1540	544,5
1541 ... 1650	644,5
1651 ... 1900	994,5
1901 ... 2150	994,5
2151 ... 2400	994,5
2401 ... 2500	994,5



Detail D = 15

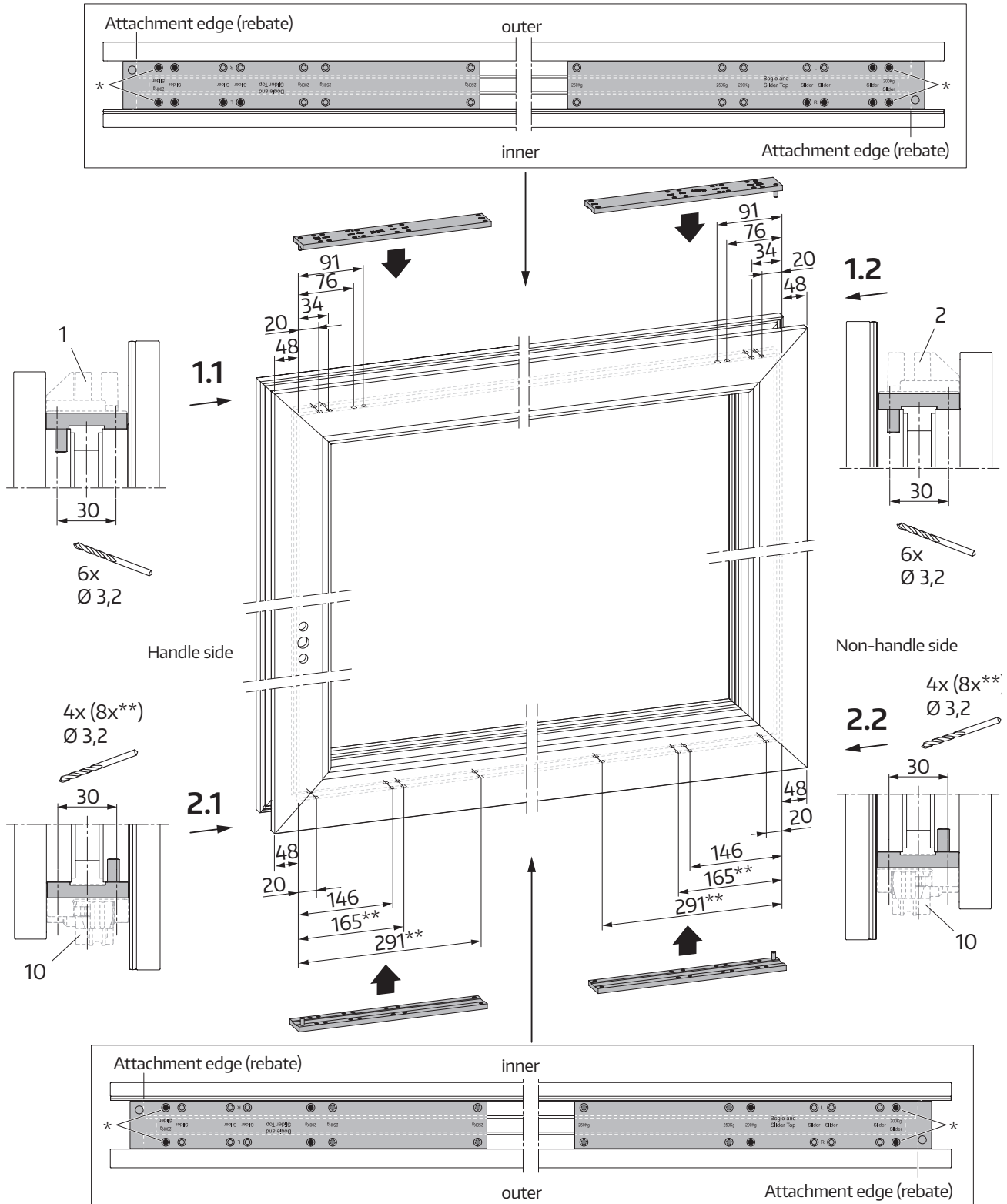




## Guide/roller holes for Scheme A / Scheme C: 1-sash

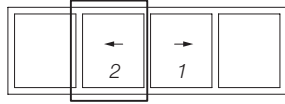
- (1) Drill holes  $\varnothing 3.2$  for attaching the upper guides (1 and 2) using drilling jig. When using drill screws, drill only through PVC.
- (2) Drill holes  $\varnothing 3.2$  for fastening the rollers (10) using drilling jig. When using drill screws, drill only through PVC.

- to drill
- do not drill



\*) only pre-drill if steel reinforcement reaches into the corner area  
 \*\*) only for SW > 200 kg

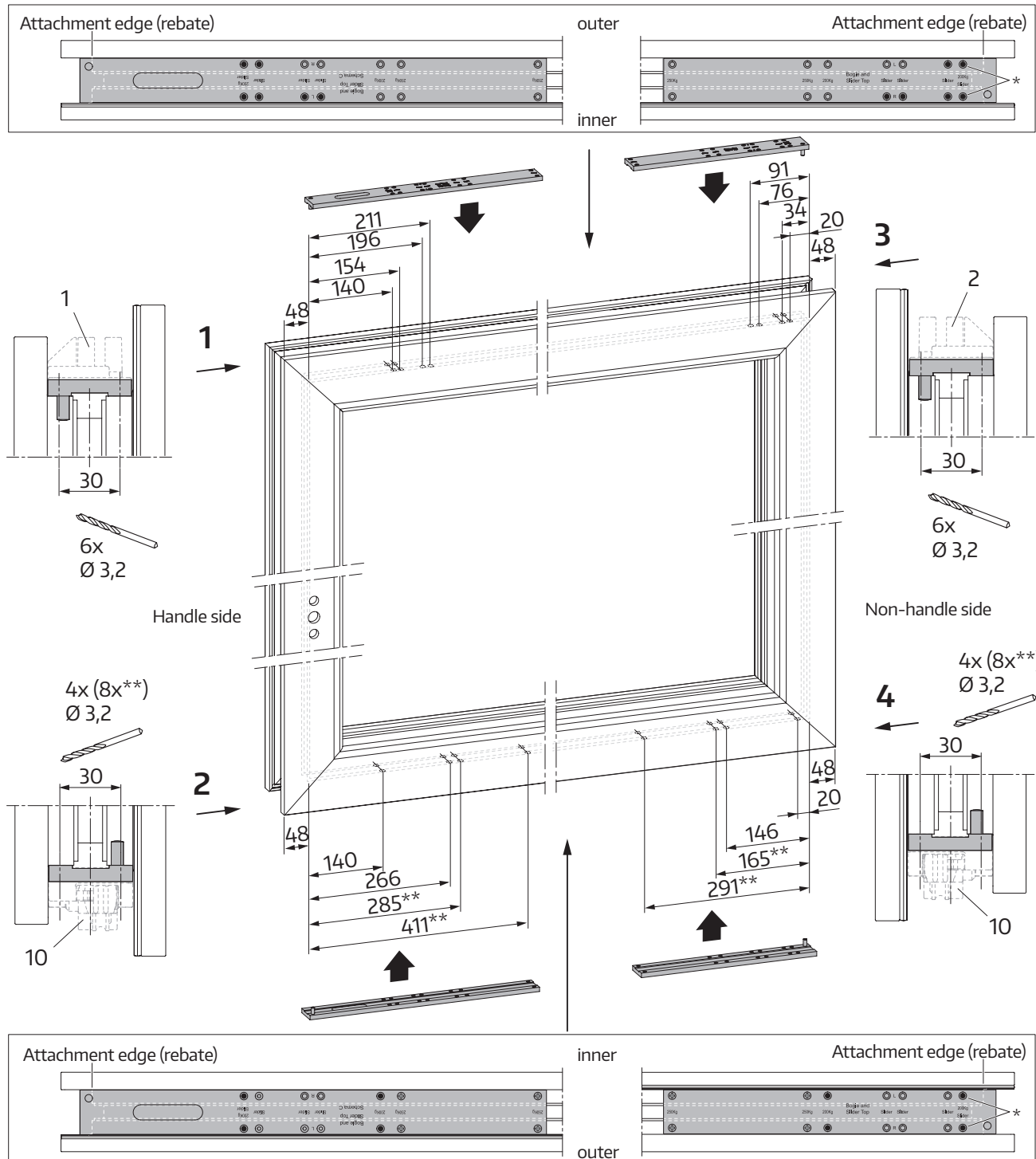
Scheme C: 2-sash



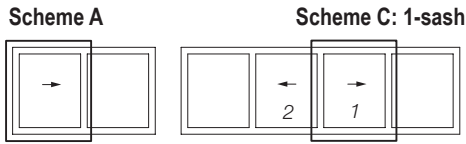
## Guide/Drive gear holes for Scheme C: 2-sash

- (1) Handle side: Drill holes  $\varnothing 3.2$  for fixing the upper guide handle-side (1) using drilling jig. When using drill screws, drill only through PVC.
- (2) Handle side: Drill holes  $\varnothing 3.2$  for fastening the rollers handle-side (10) using drilling jig. When using drill screws, drill only through PVC.
- (3) Non-handle side: Drill holes  $\varnothing 3.2$  for fixing the upper guide non-handle side (2) using drilling jig. When using drill screws, drill only through PVC.
- (4) Non-handle side: Drill holes  $\varnothing 3.2$  for fixing the rollers non-handle side (10) using drilling jig. When using drill screws, drill only through PVC.

● to drill    ○ do not drill



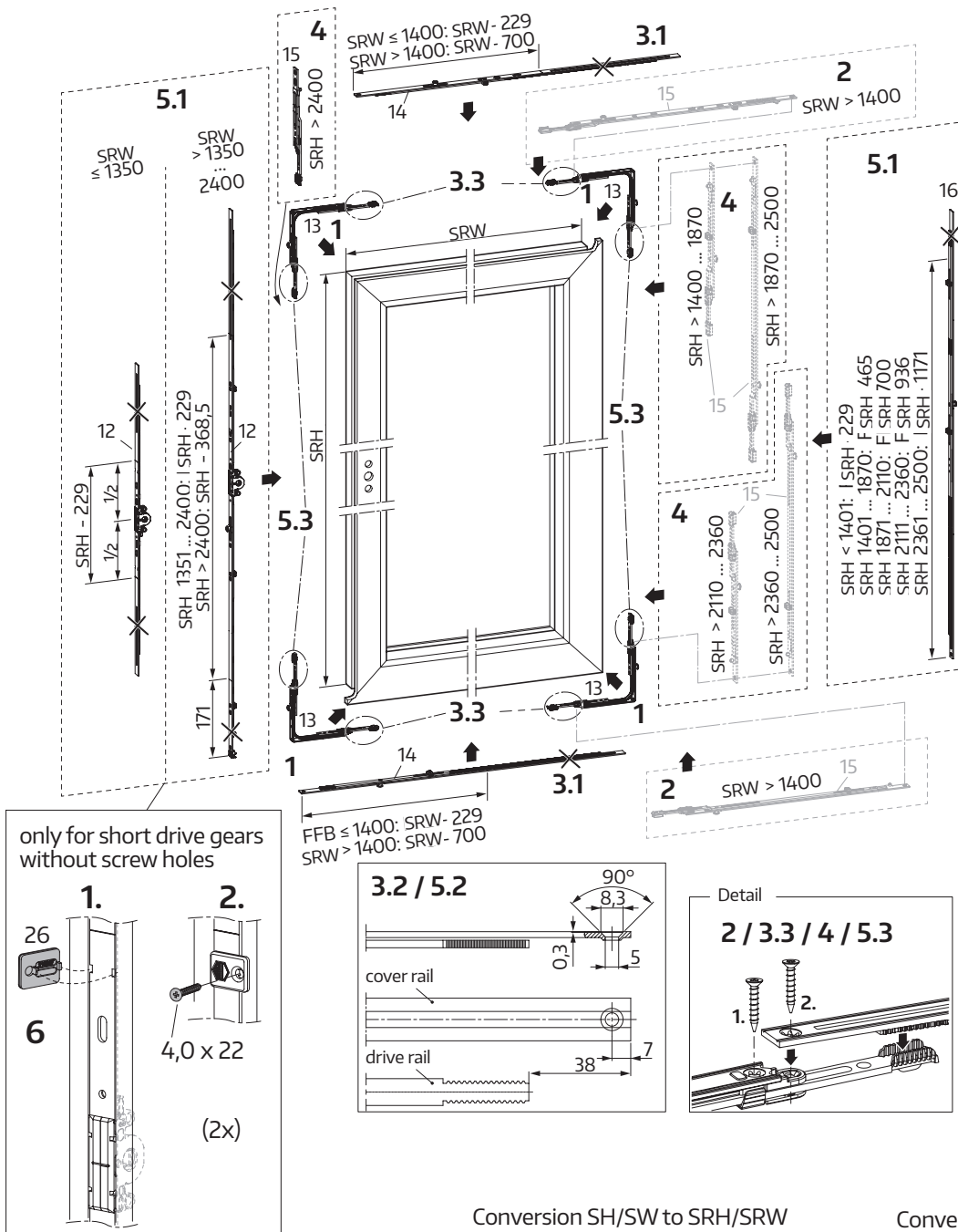
\*) only pre-drill if steel reinforcement reaches into the corner area  
 \*\*) only for SW > 200 kg



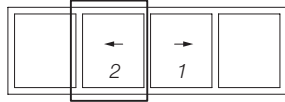
## Assembly on the sash

### Cutting rails to length, central locking assembly MULTI-MATIC Scheme A / Scheme C 1-sash

- (1) Screw on the upper and lower corner elements (13).
- (2) SRW > 1400 mm: Screw on the width arm extensions (15) to the corner elements on the non-handle side.
- (3) Cut the upper and lower connecting rails (14) to length, punch and screw on.
- (4) SRW > 1400 mm: Screw on the height arm extensions (15) to the upper corner element on the non-handle side; SRW > 2110 mm: Screw on the additional height arm extensions (15) to the lower corner element; SRW > 2400 mm: Screw on the drive gear extension (15) to the upper corner element on the handle side.
- (5) Shorten, punch and screw on the side connecting rail (16) and the drive gear rail (12).
- (6) Only for short drive gears without screw holes: Screw on the drive gear holder (26) to the sash as shown.

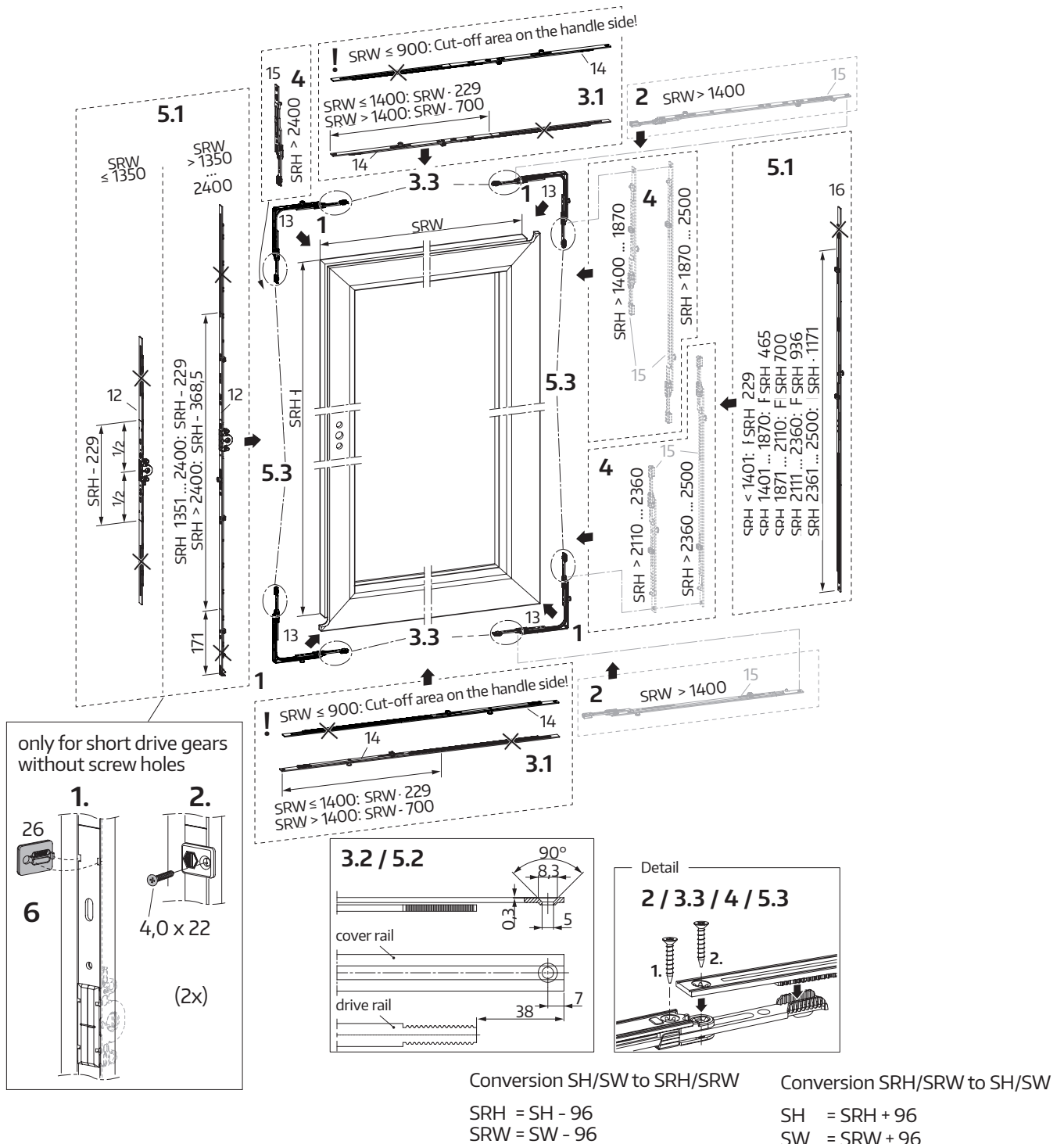


Scheme C: 2-sash



# Cutting rails to length, central locking assembly MULTI-MATIC Scheme C 2-sash


- (1) Screw on the upper and lower corner elements (13).
- (2) SRW > 1400 mm: Screw on the width arm extensions (15) to the corner elements on the non-handle side.
- (3) Cut the upper and lower connecting rails (14) to length, punch and screw on. **ATTENTION: with SRW ≤ 900 mm, the connection rail must be assembled with the cut-off area on the handle side!**
- (4) SRH > 1400 mm: Screw on the height arm extensions (15) to the upper corner element on the non-handle side; SRH > 2110 mm: Screw on the additional height arm extensions (15) to the lower corner element; SRH > 2400 mm: Screw on the drive gear extension (15) to the upper corner element on the handle side.
- (5) Shorten, punch and screw on the side connecting rail (16) and the drive gear rail (12).
- (6) Only for short drive gears without screw holes: Screw on the drive gear holder (26) to the sash as shown.

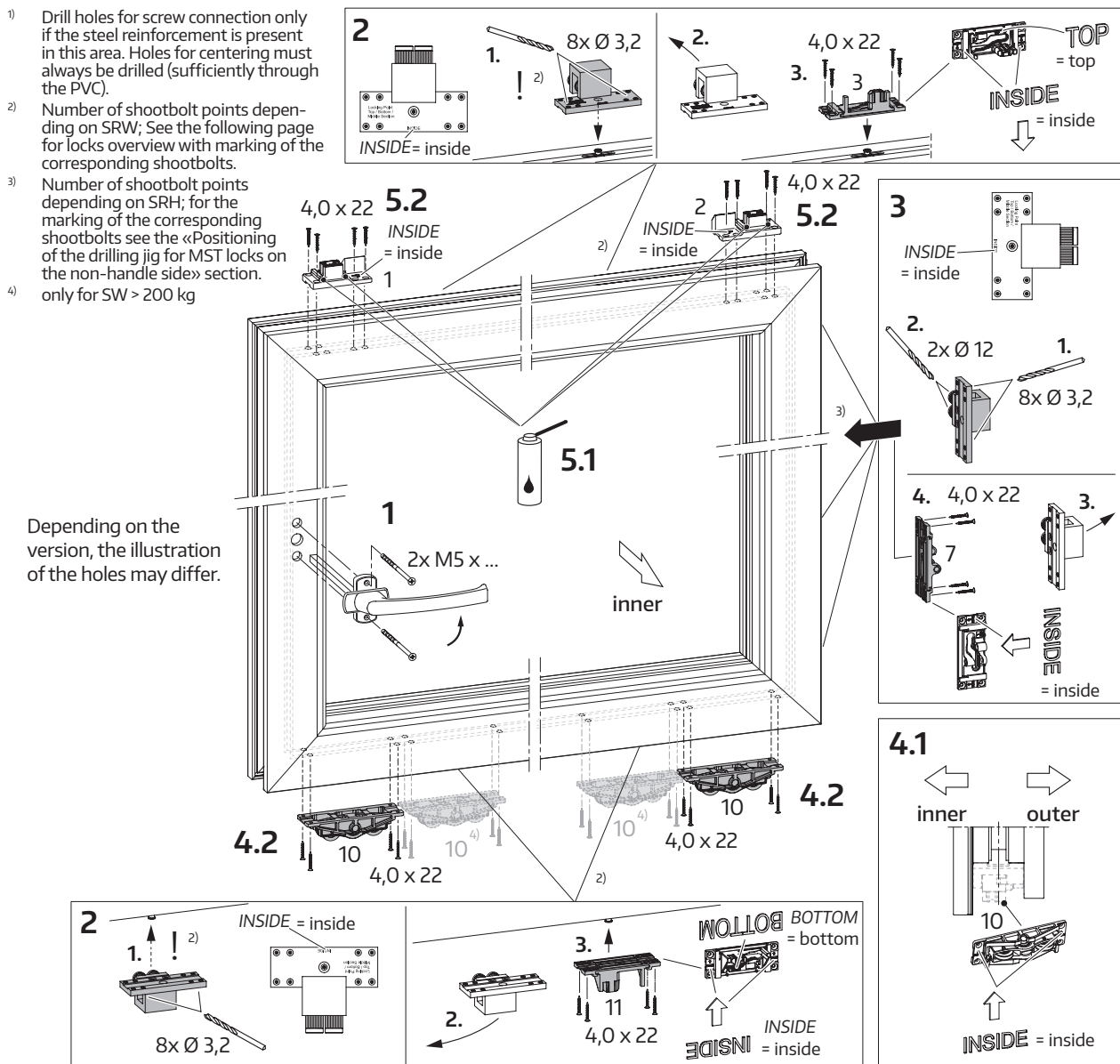




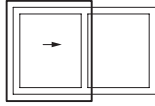
# Assembly of handle, upper/lower locks, rollers and guide rails

- (1) Set the central locking system on the drive gear to the middle position and assemble the handle 161 FEG or 161 FEG-S centrally.
- (2) Position the drilling jig for the upper/lower/MST locks on the corresponding shootbolt of the width arms (see following page) and drill the corresponding holes<sup>1)</sup>. When using drill bits, drill only through the PVC (1). Remove the drilling jig (2). Position the upper TOP (3) and lower BOTTOM (11) locks correctly (see arrow and lettering INSIDE) and attach to the sash (3) using 4x each 4.0 x 22 screws (alternatively 3.9 x 25 screws).
- (3) Place the drilling jig on the non-handle side on the shootbolts of the height arms (16), the extensions (15) and the corner elements (13/13a) (see section „Positioning of the drilling jig for MST locks on the non-handle side“) and drill the corresponding holes<sup>1)</sup>. When using drill screws, drill only through the PVC (1) (per shootbolt position additional 2 holes Ø 12 for MST locks (2), for assembly see section “MST Locks”). Remove the drilling jig (3). Align the MST locks (7) correctly (see arrow and lettering INSIDE) and attach to the sash using 4x each 4.0 x 22 screws (alternatively 3.9 x 25).
- (4) Align the rollers (10) correctly (see arrow and lettering INSIDE) and attach each roller to the sash using 4x each 4.0 x 22 screws (alternatively 3.9 x 25 screws).
- (5) Lubricate the sliding surfaces on the upper guide rails (1 and 2). Align the guide rails correctly (see arrow and lettering INSIDE) and attach to the designated positions using 4x each 4.0 x 22 screws (alternatively 3.9 x 25 screws).

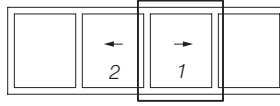
**Warning:**  
 **do not over-tighten the screws (1.5 ... 2 Nm)! Otherwise, the window sash is not sufficiently secured. Serious bodily injuries can occur as a result!**



Scheme A

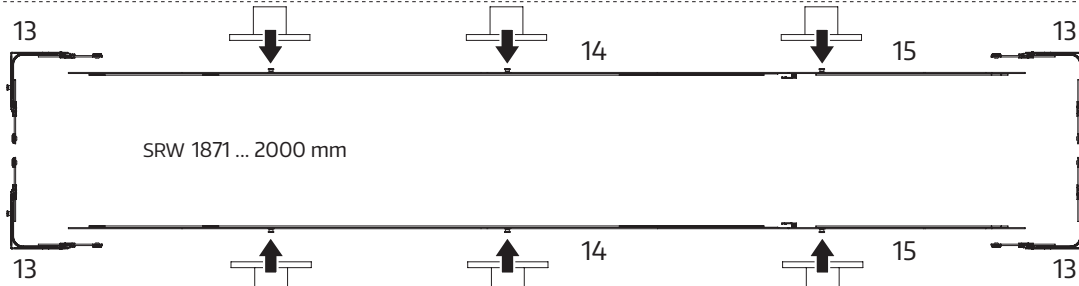
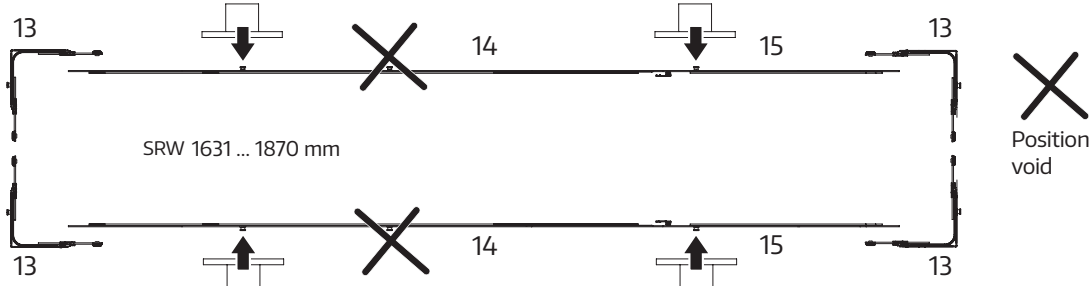
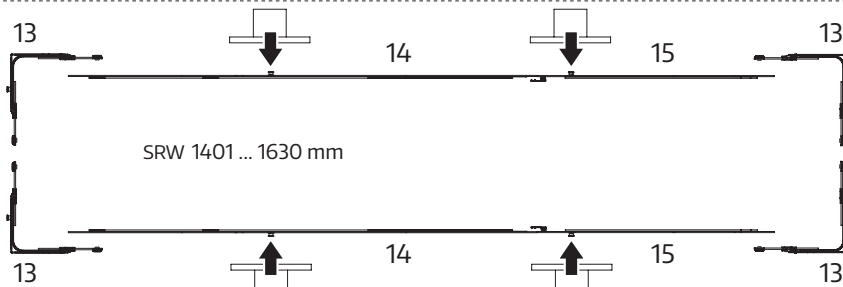
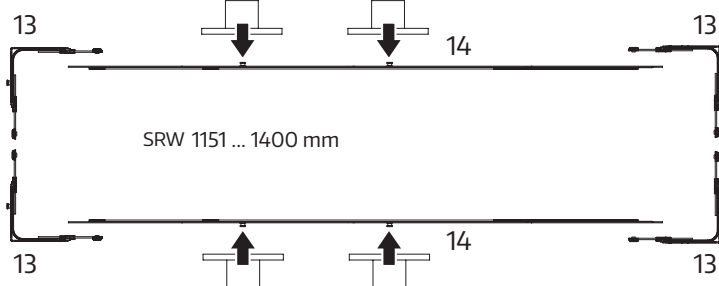
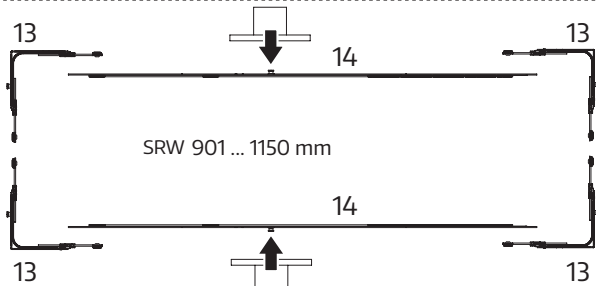
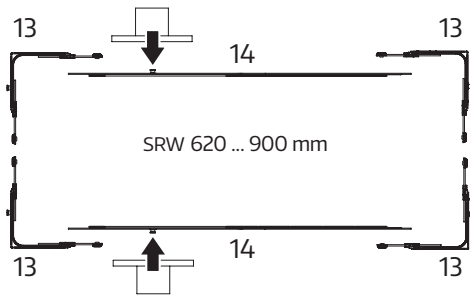


Scheme C: 1-sash



# Positioning of the drilling jig for upper/lower locks

## Scheme A / Scheme C 1-sash

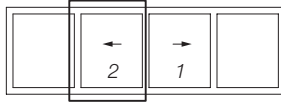


Handle side

Non-handle side

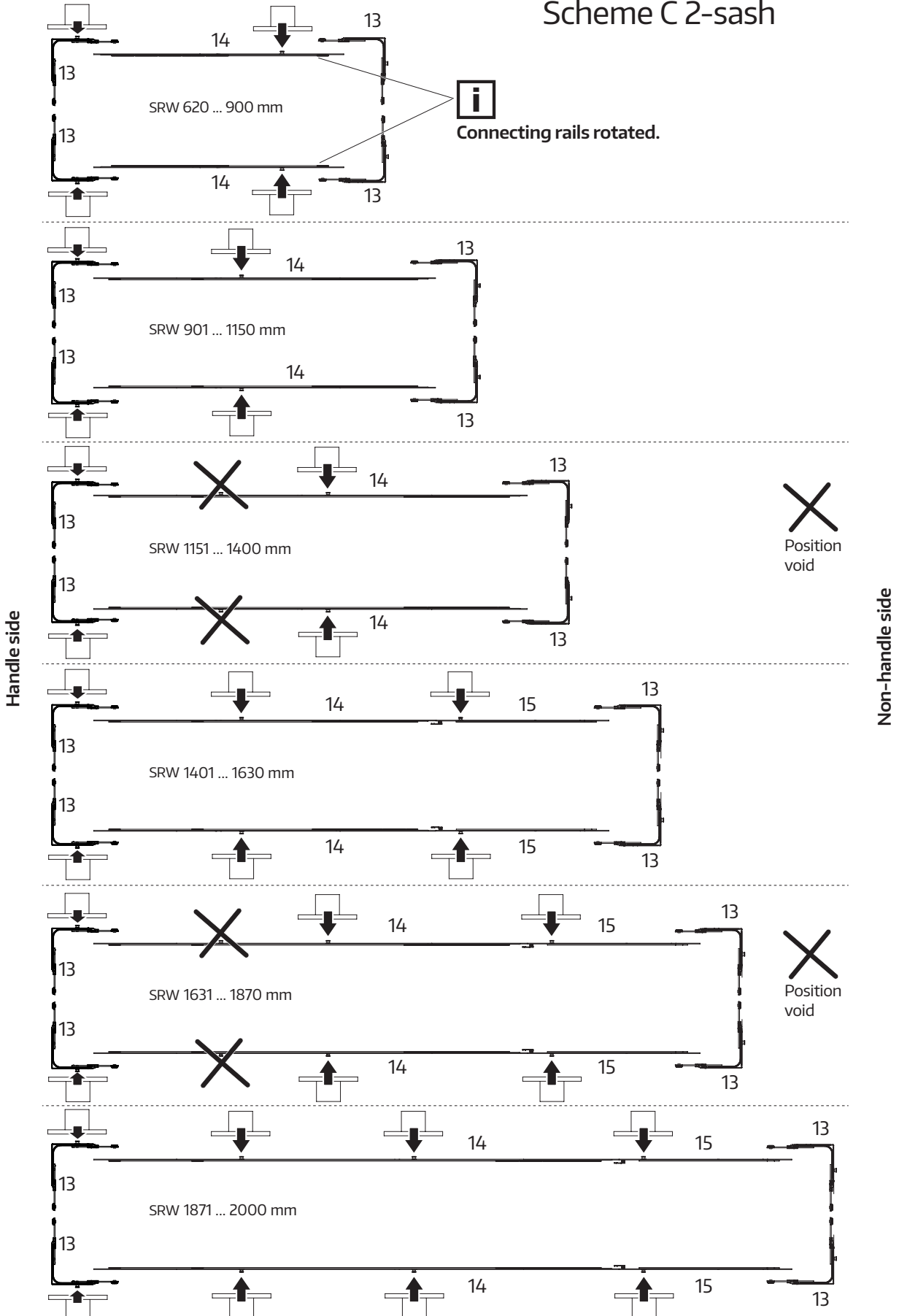
Position void

Scheme C: 2-sash

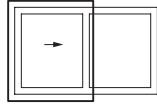


Positioning of drilling jig for upper/lower locks

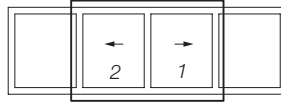
Scheme C 2-sash



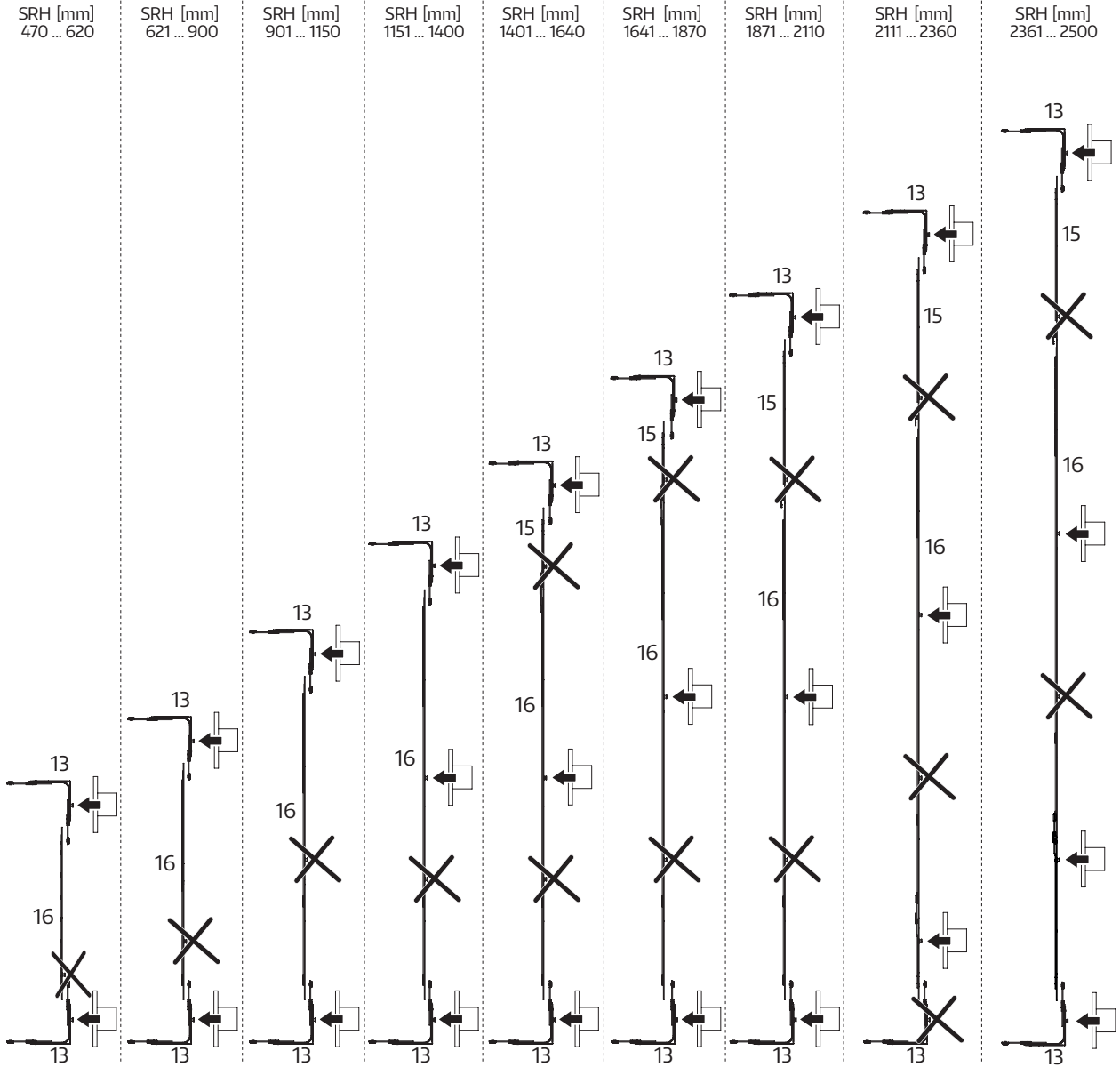
Scheme A




Scheme C: 1- and 2-sash

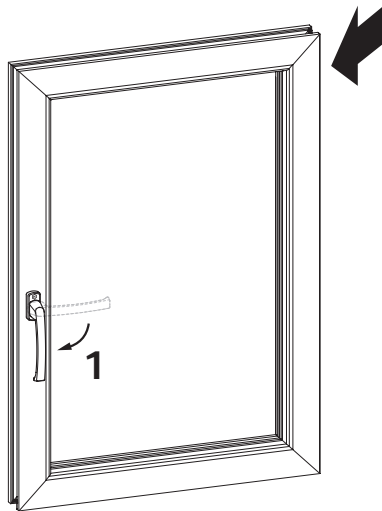


# Positioning of drilling jig for locks MST on the non-handle side Scheme A / Scheme C 1 and 2 sashes

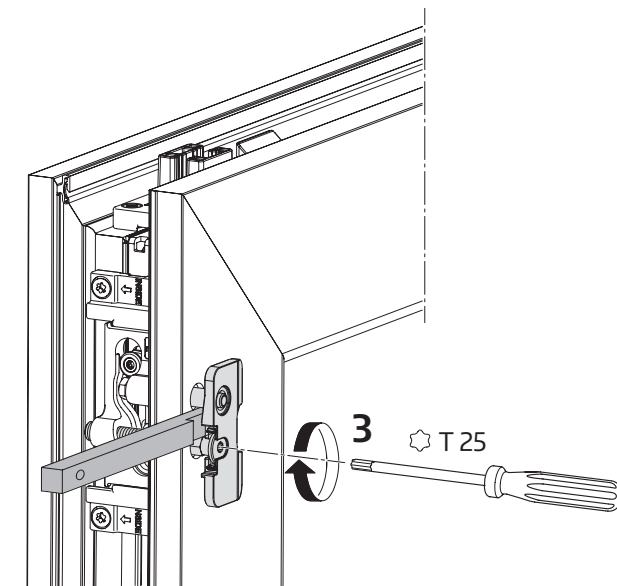
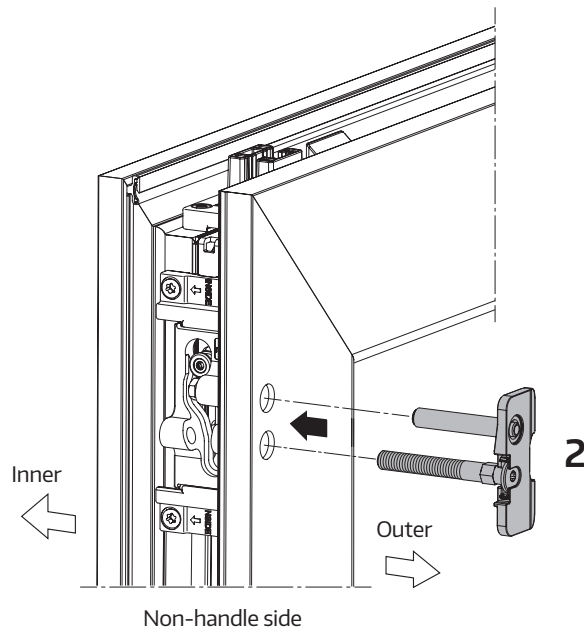


## Assembly of locking parts MST

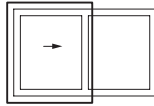
- (1) Move the handle to the locked position.
- (2) Insert locking parts MST (6) through the drilled holes as shown.
- (3) Screw the stepped cams of the locking parts MST (6) into the locks MST (7) by means of  T 25 until they rest on the jig as shown (basic lock setting).



Illustrations:  
Upper lock MST; other locks  
as per MST



Scheme A




## Cutting/Assembly of additional profiles Scheme A

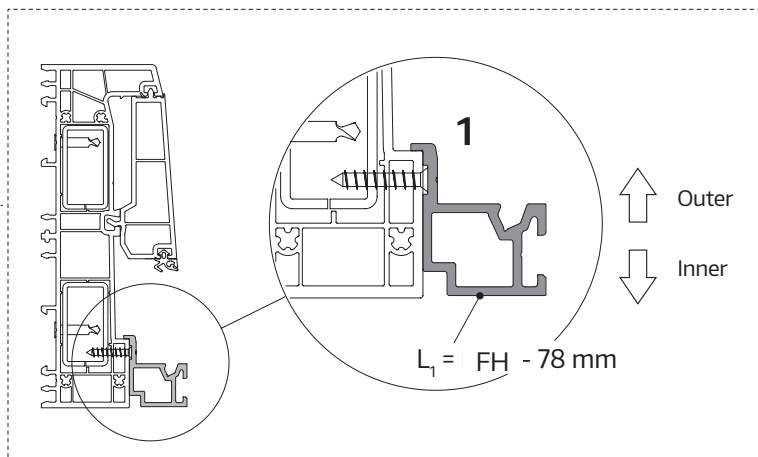
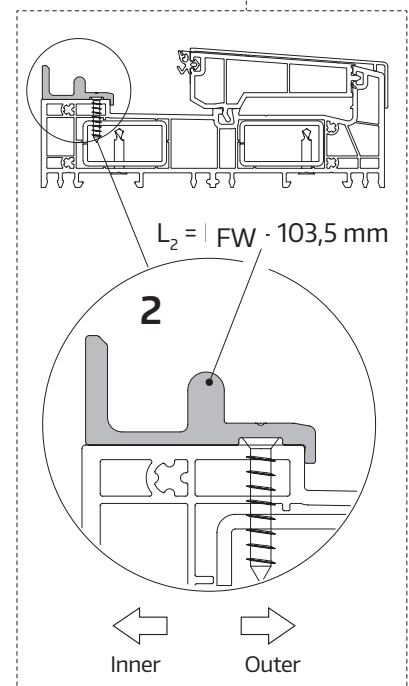
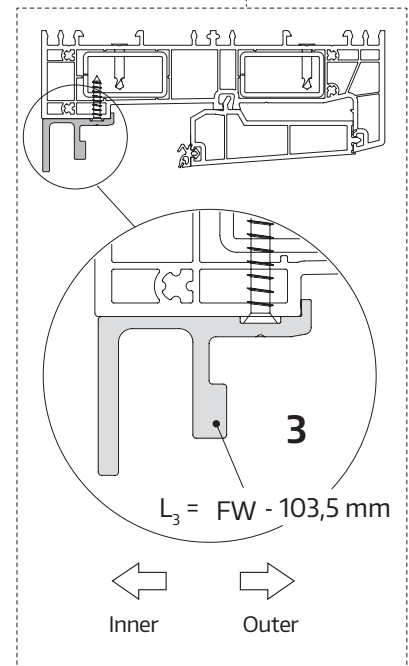
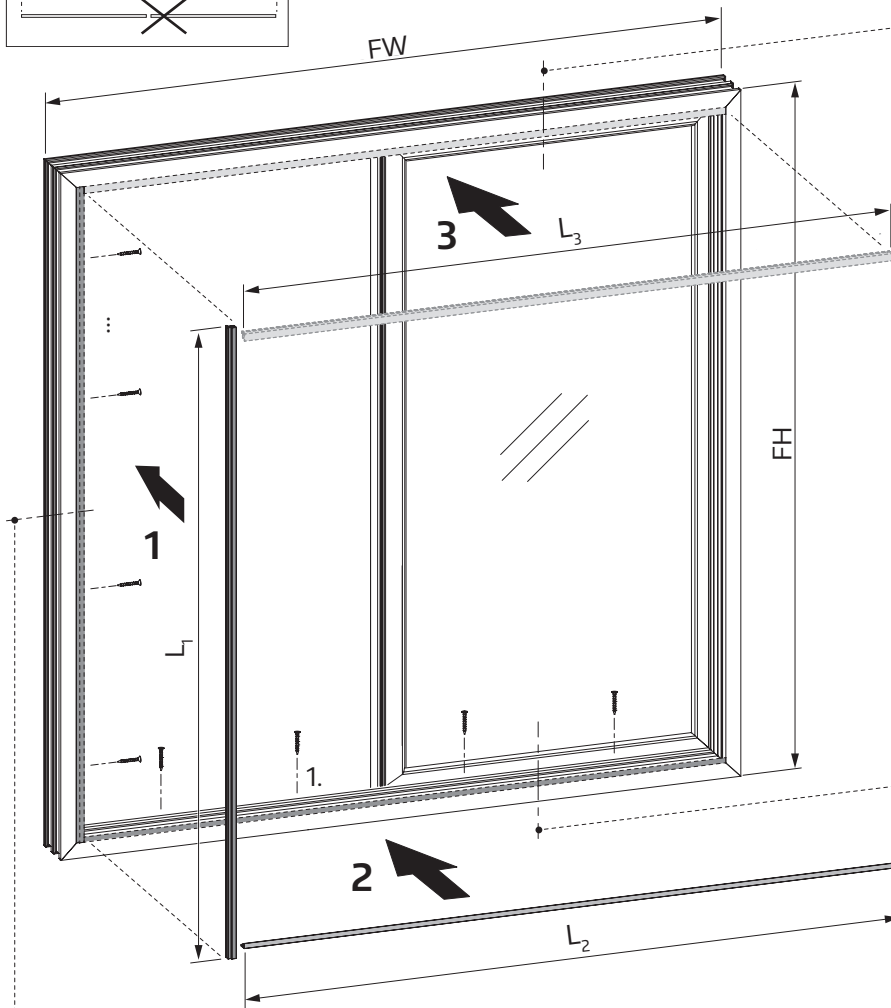
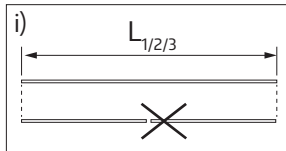
- (1) Frame profile  $\varnothing$ :  $L_1 = FH - 78 \text{ mm}$  cut to length and screw in\*.
- (2) Roller track  $\varnothing$ :  $L_2 = FW - 103.5 \text{ mm}$  cut to length and screw in\*.
- (3) Guide track  $\varnothing$ :  $L_3 = FW - \text{cut to length } 103.5 \text{ mm}$ ;

**The guide track is only installed during the assembly of the sliding sash screwed to the frame. Otherwise, it is not possible to insert the sliding sash into the frame.**

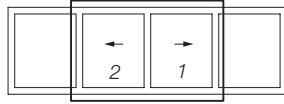
\*) use:

 Pre-drill  $\varnothing 3.2$   
4.0 x 22

alternatively:  
drill screw 3.9 x 25



Scheme C




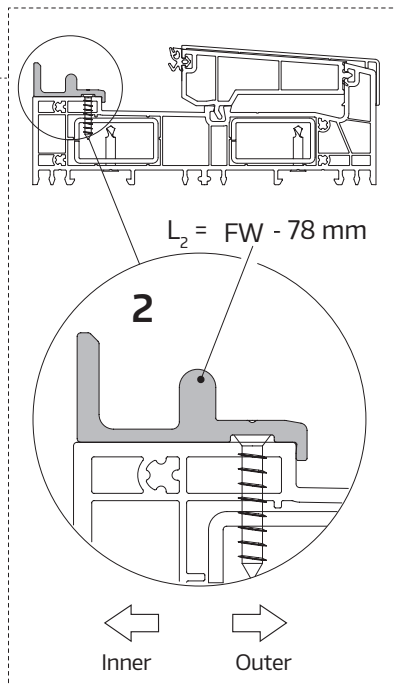
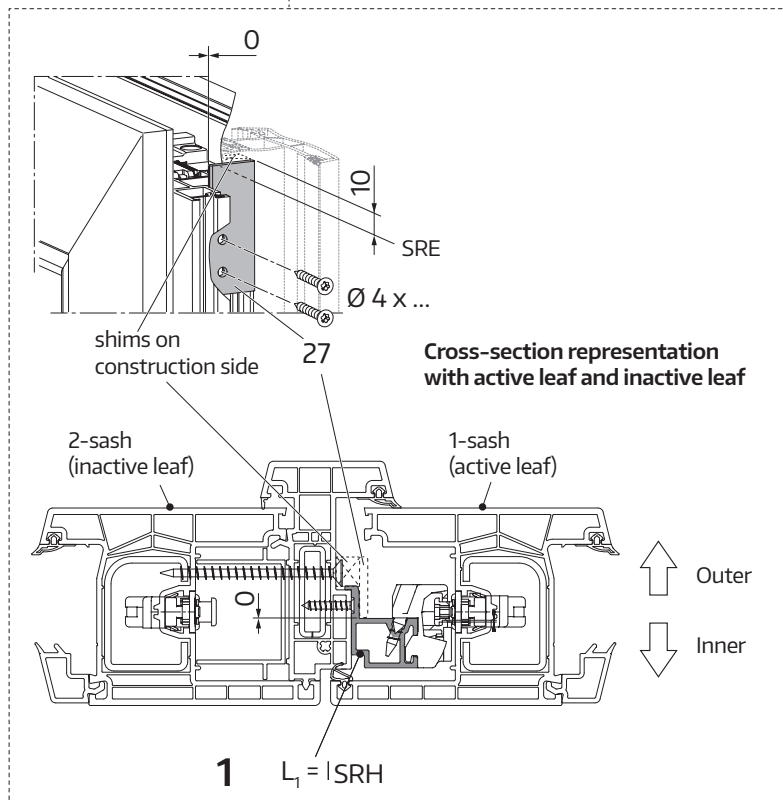
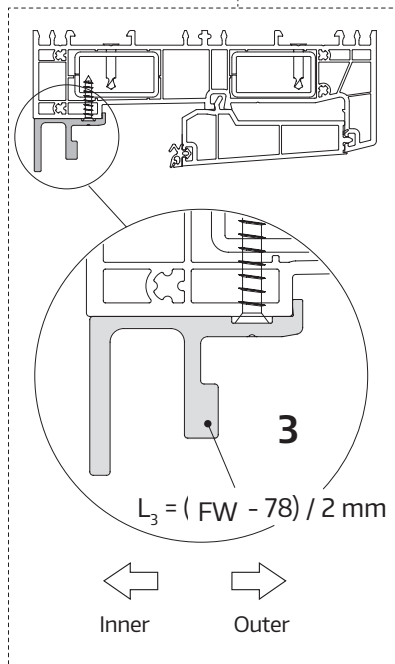
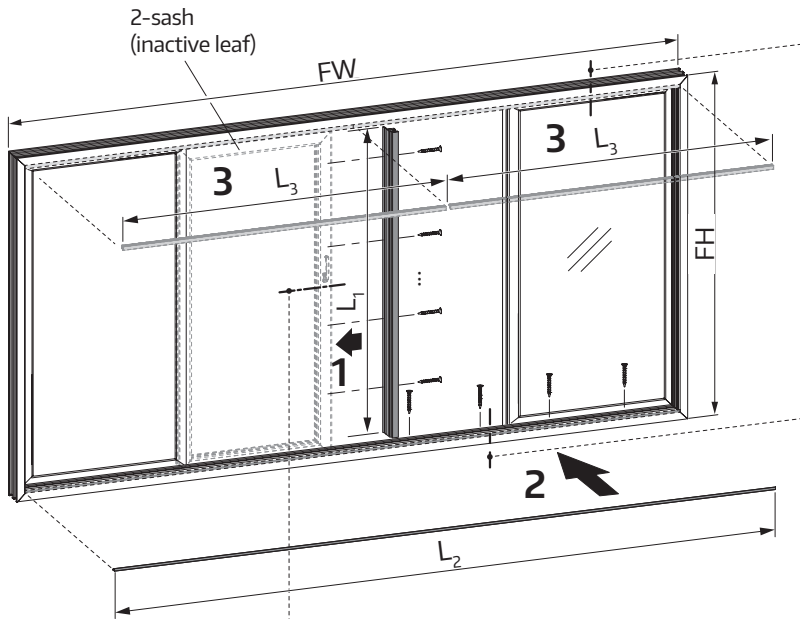
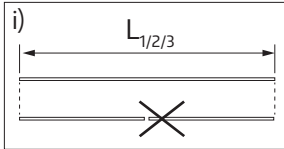
## Cutting/Assembly Additional Profiles Scheme C

- (1) Frame profile <sup>1)</sup>:  $L_1 =$  cut SRH to length and screw to the 2nd/inactive leaf\*.
- (2) Roller track <sup>1)</sup>:  $L_2 = FW - 78$  mm cut to length and screw in\*\*.
- (3) Guide track <sup>1)</sup>:  $L_3 = (FW - 78) / 2$  mm cut to length (length per side);  
**The guide track is only installed during the assembly of the sliding sash screwed to the frame. Otherwise, it is not possible to insert the sliding sash into the frame.**

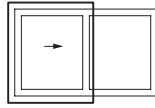
\*) Use screws according to the system manufacturer's specifications

\*\*\*) use:

-  Pre-drill  $\varnothing 3.2$   
4.0 x 22
- alternatively:  
drill screw 3.9 x 25



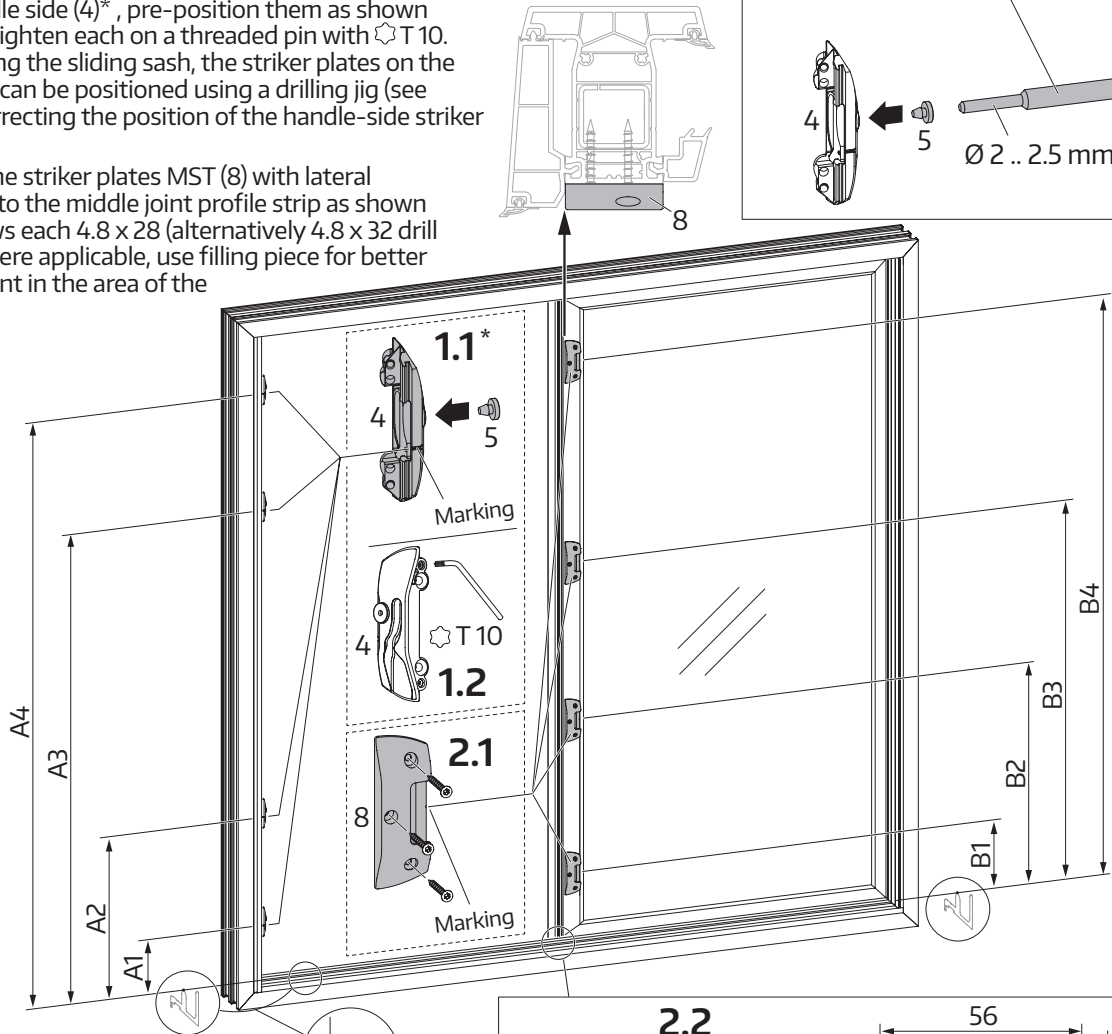
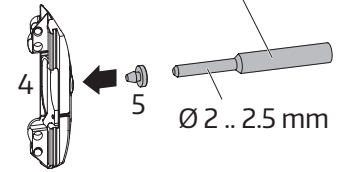
Scheme A



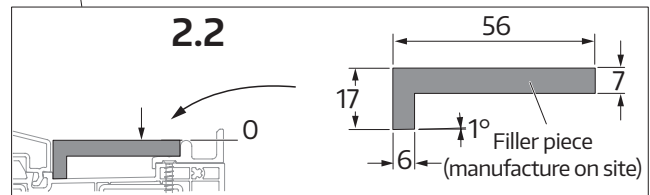
## Striker plate assembly on handle side and striker plates MST for Scheme A

- (1) Press the rubber frame buffers into the striker plates on the handle side (4)\*, pre-position them as shown and lightly tighten each on a threaded pin with  $\odot$  T 10. After hanging the sliding sash, the striker plates on the handle side can be positioned using a drilling jig (see section „Correcting the position of the handle-side striker plates“).
- (2) Assemble the striker plates MST (8) with lateral orientation to the middle joint profile strip as shown with 3 screws each 4.8 x 28 (alternatively 4.8 x 32 drill screws). Where applicable, use filling piece for better measurement in the area of the roller track.

\*) where applicable, use tool for easier assembly of the rubber frame buffer (e.g. spline drivers)



for handle 161 FEG-PCI / 160 FEG-PCO see cross-section „Optional handle assembly 161 FEG-PCI / 160 FEG-PCO“

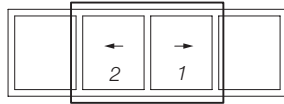


SRH	(for pre-positioning)			
	A1	A2	A3	A4
470 .. 800	100	-	-	SRH - 40
801 .. 900	100	-	-	SRH - 40
901 .. 1250	100	SRH/2 + 124.5	-	SRH - 40
1251 .. 1350	100	SRH/2 + 124.5	-	SRH - 40
1351 .. 1540	100	849	-	SRH - 40
1541 .. 1650	100	949	-	SRH - 40
1651 .. 1700	100	724	-	SRH - 40
1701 .. 1900	100	724	1394	SRH - 40
1901 .. 2150	100	724	1394	SRH - 40
2151 .. 2400	100	724	1394	SRH - 40
2401 .. 2500	100	724	1394	SRH - 40

SRH	B1	B2	B3	B4
470 .. 620	93	-	-	SRH - 47
621 .. 900	93	-	-	SRH - 47
901 .. 1150	93	-	-	SRH - 47
1151 .. 1400	93	-	776.5	SRH - 47
1401 .. 1640	93	-	776.5	SRH - 47
1641 .. 1870	93	-	1010.5	SRH - 47
1871 .. 2110	93	-	1010.5	SRH - 47
2111 .. 2360	306.5	-	1246.5	SRH - 47
2361 .. 2500	93	541.5	1481.5	SRH - 47



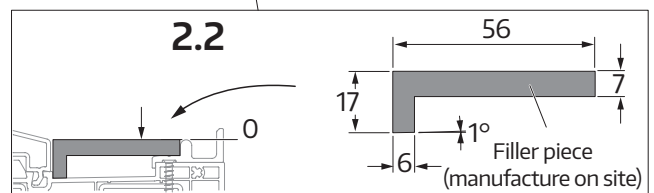
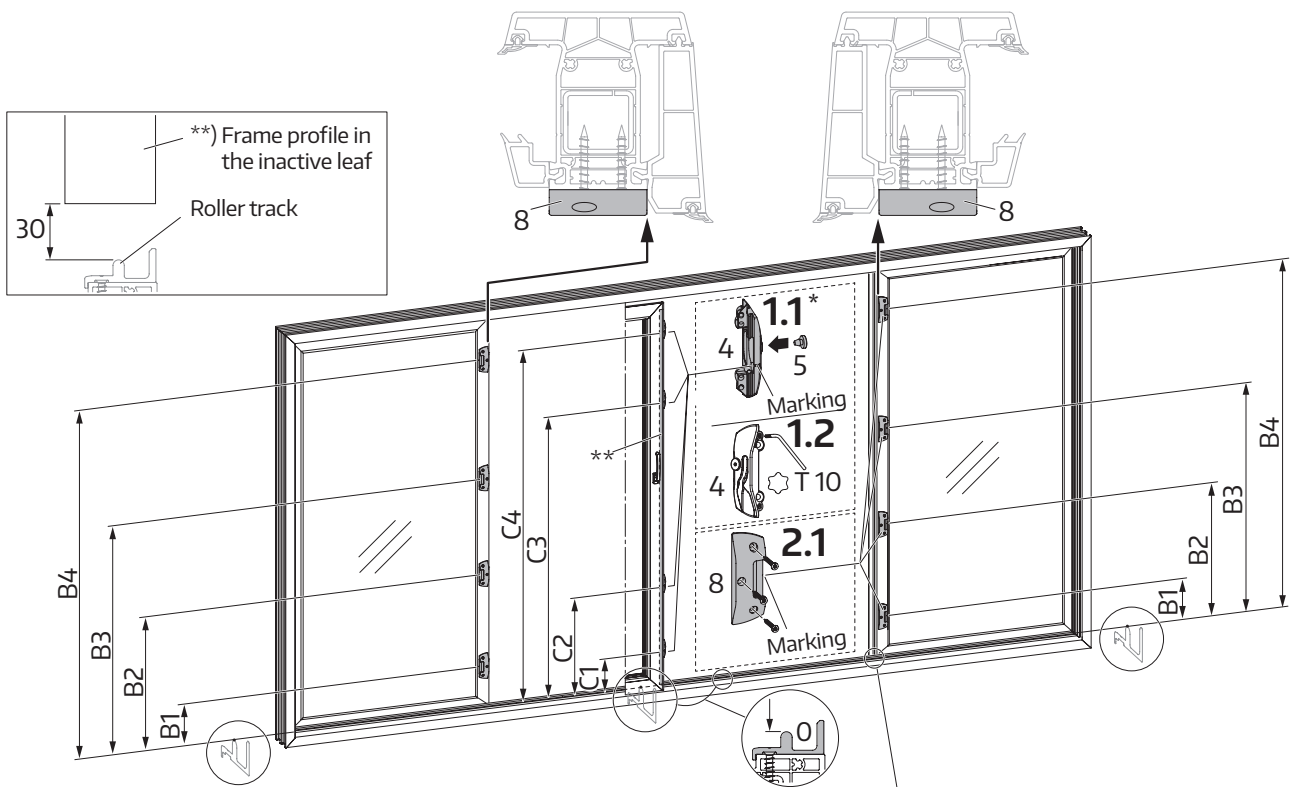
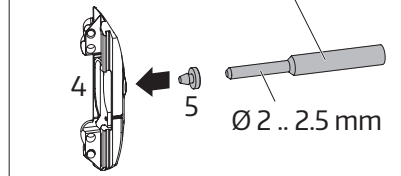
Scheme C



## Striker plate assembly on handle side and striker plates MST for Scheme C

- (1) Press the rubber frame buffers into the striker plates on the handle side (4)\*, pre-position them as shown and lightly tighten each on a threaded pin with T 10. After engaging the sliding sash, the striker plates on the handle side can be positioned using a drilling jig (see section „Correcting the position of the handle-side striker plates“).
- (2) Assemble the striker plates MST (8) with lateral orientation to the profile strips of the inside of the fixed sash as shown with 3 screws 4.8 x 28 (alternatively 4.8 x 32 drill screws). Where applicable, use filling piece for better measurement in the area of the roller track.

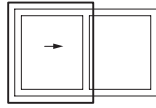
\*) where applicable, use tool for easier assembly of the rubber frame buffer (e.g. spline drivers)



SRH	(for pre-positioning)			
	C1	C2	C3	C4
470 .. 800	100	-	-	SRH - 40
801.. 900	100	-	-	SRH - 40
901.. 1250	100	SRH/2 + 124.5	-	SRH - 40
1251.. 1350	100	SRH/2 + 124.5	-	SRH - 40
1351.. 1540	100	849	-	SRH - 40
1541.. 1650	100	949	-	SRH - 40
1651.. 1700	100	724	-	SRH - 40
1701.. 1900	100	724	1394	SRH - 40
1901.. 2150	100	724	1394	SRH - 40
2151.. 2400	100	724	1394	SRH - 40
2401.. 2500	100	724	1394	SRH - 40

SRH	B1	B2	B3	B4
470 .. 620	93	-	-	SRH - 47
621.. 900	93	-	-	SRH - 47
901 .. 1150	93	-	-	SRH - 47
1151.. 1400	93	-	776.5	SRH - 47
1401.. 1640	93	-	776.5	SRH - 47
1641.. 1870	93	-	1010.5	SRH - 47
1871.. 2110	93	-	1010.5	SRH - 47
2111.. 2360	306.5	-	1246.5	SRH - 47
2361.. 2500	93	541.5	1481.5	SRH - 47

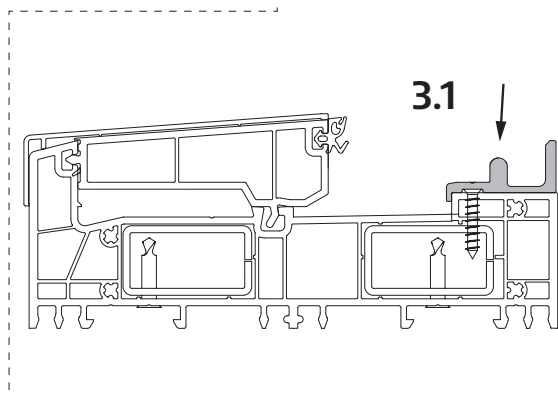
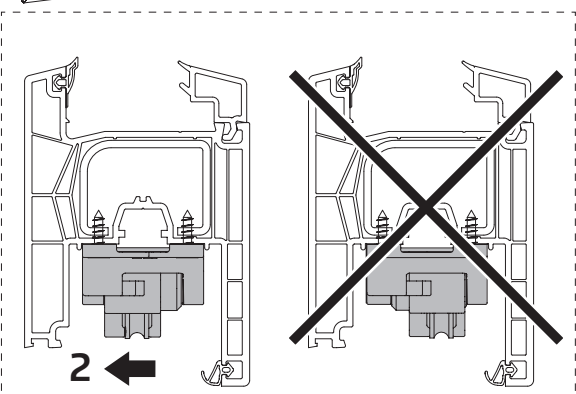
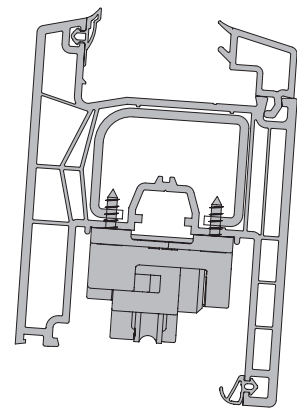
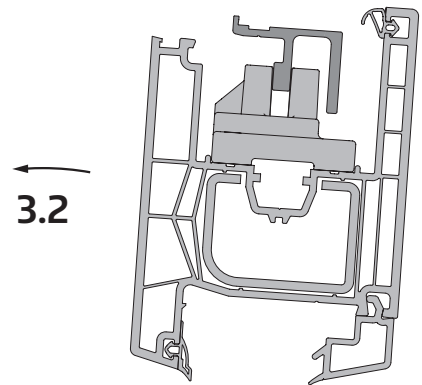
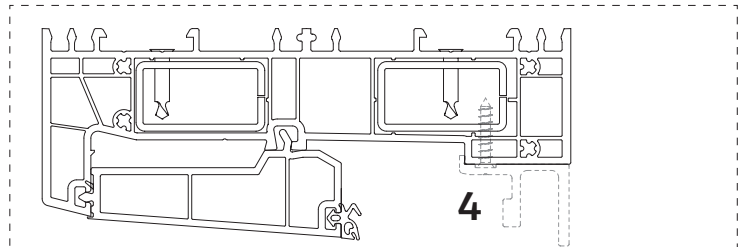
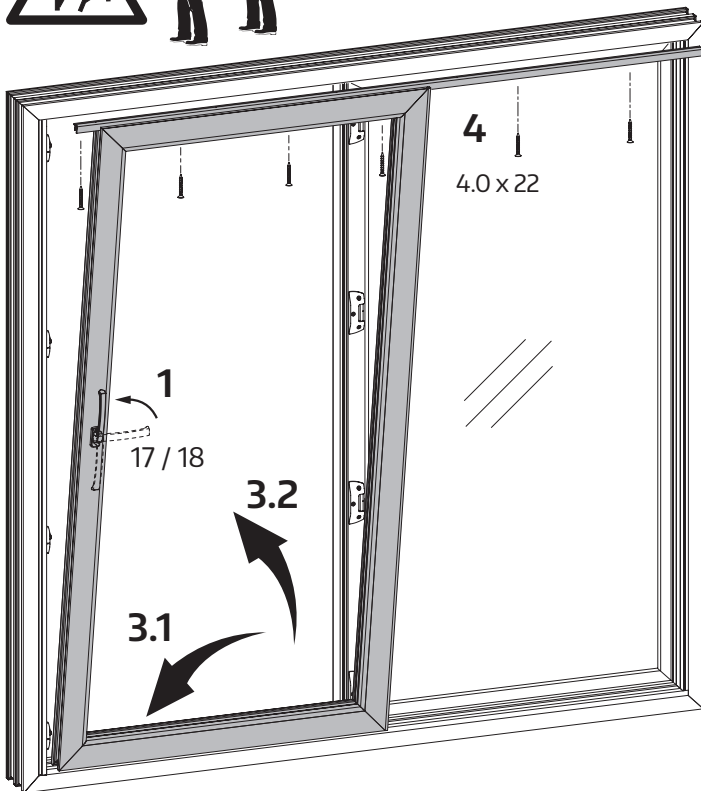
Scheme A



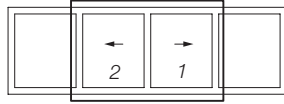
## Engaging the sash for Scheme A

**Warning:** Do not perform the following steps alone. For this purpose, a second person is needed. Otherwise, material damage and bodily injuries may occur.

- (1) Position the handle (17/18) upwards.
- (2) Move drives to the parked position.
- (3) Place the sash on the roller track in the passage area and swivel the sash into the frame with the guide track.
- (4) Screw the guide track to the frame with screws 4.0 x 22 (alternatively drill screws 3.9 x 25). For fastening in the passage area, open the sliding sash completely and support the guide track during this time (without illustration).



Scheme C



## Engaging the sash for Scheme C

**Warning:** Do not perform the following steps alone. For this purpose, a second person is needed. Otherwise, material damage and bodily injuries may occur.

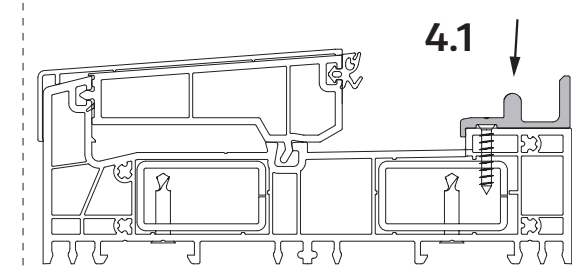
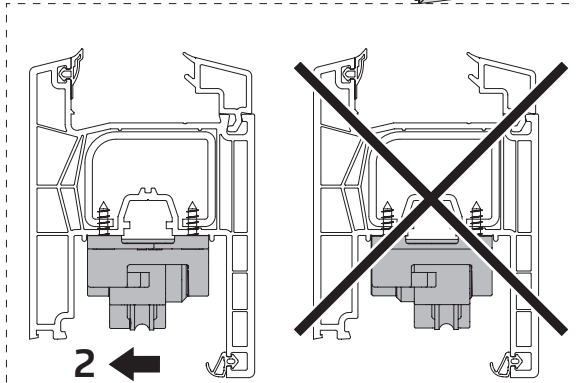
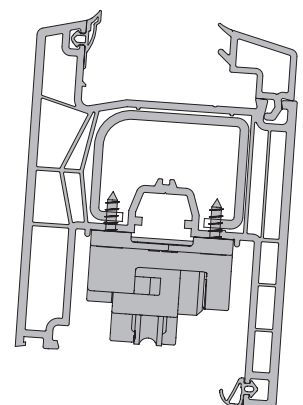
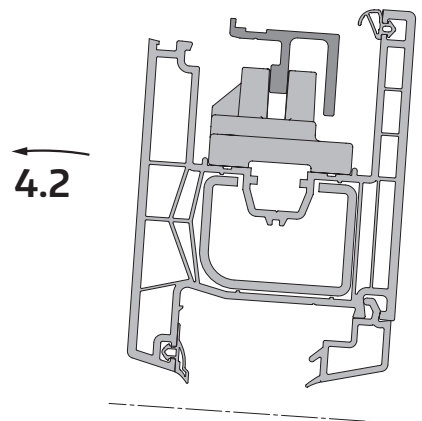
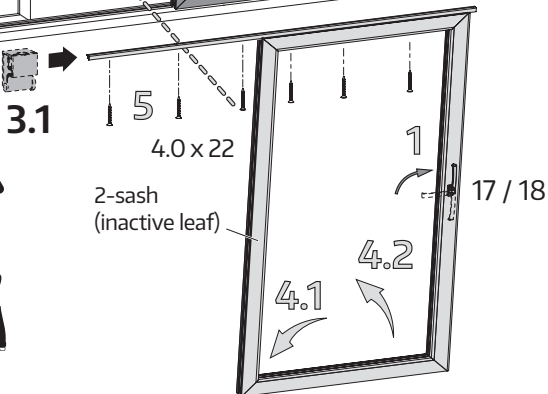
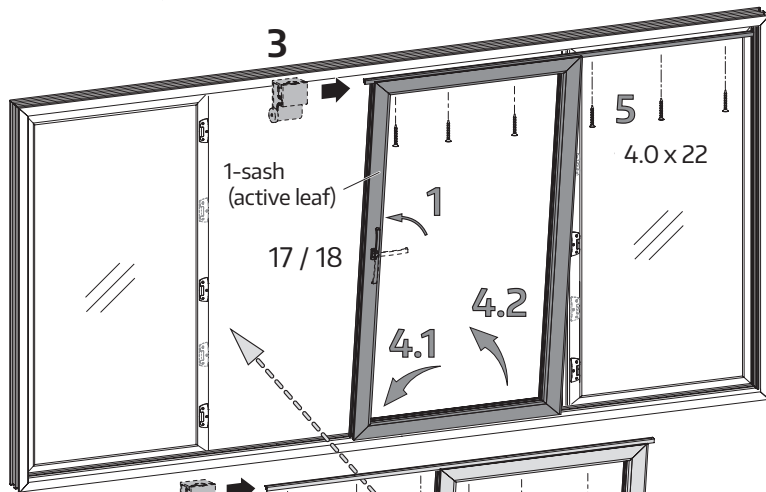
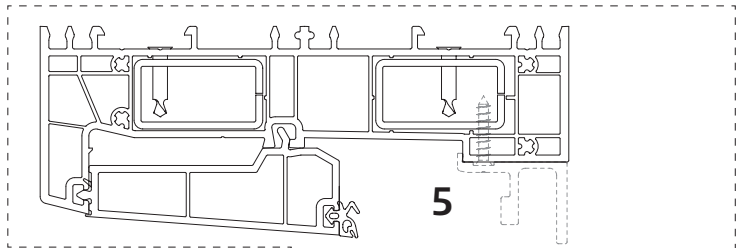
### Engage the active leaf (1-sash):

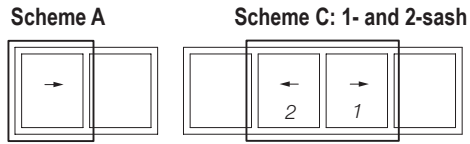
- (1) Position the handle (17/18) upwards.
- (2) Move drives to the parked position.
- (3) Slide the rebate above onto the guide track as shown (see page 30 for final position). The final positioning is only possible after installation of the inactive leaf!
- (4) Place the sash on the roller track in the passage area and swivel into the frame with the guide track.
- (5) Screw the guide track to the frame with screws 4.0 x 22 (alternatively drill screws 3.9 x 25).

For fastening in the passage area, open the sliding sash completely and support the guide track during this time (without illustration).

### Engage the inactive leaf (2-sash):

For the procedure, see active leaf (1-sash)





## Correct the position of the handle-side striker plates \*

(Repeat steps 2 .. 5 consecutively for all handle-side striker plates)

- (1) Position the handle upwards.
- (2) Place the jig on the shootbolt of the drive gear as shown (see following page).
- (3) Scheme A: Slide the sash onto the frame until the jig strikes.  
Scheme C: Push the 1-sash (active leaf) onto the closed 2-sash (inactive leaf) until the jig strikes.
- (4) Check the position of the striker plate (4) to the jig and, if necessary, adjust.
- (5) Tighten both threaded pins with  $\star$  T 10 (1.5 ... 2 Nm)!

\*) for handle 161 FEG-PCI / 160 FEG-PCO:  
see separate section

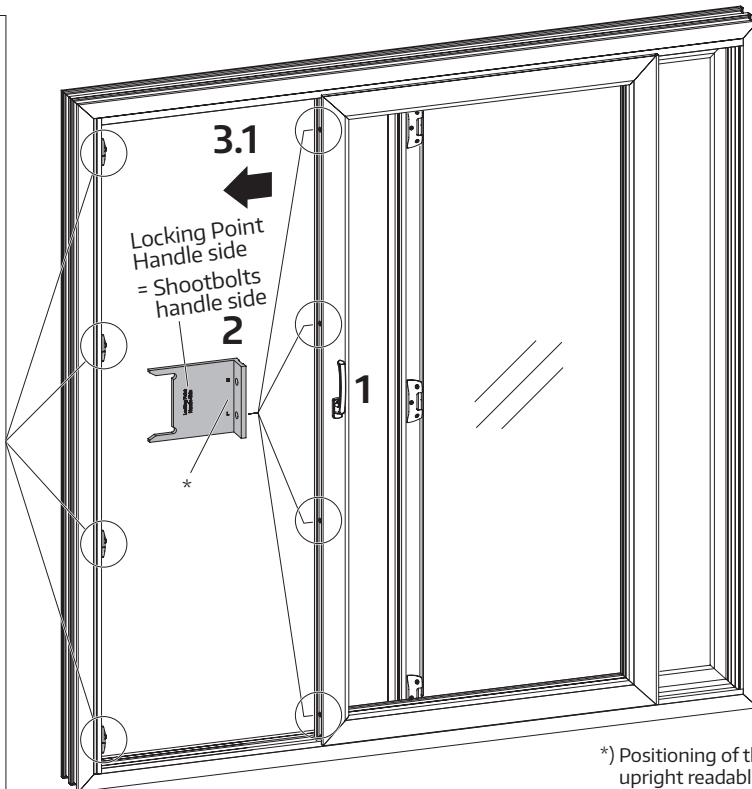
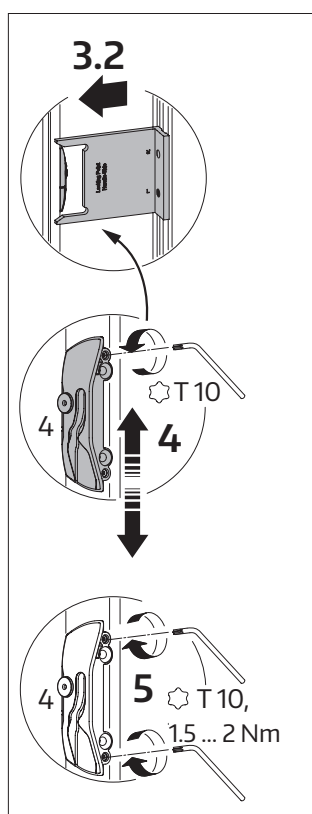
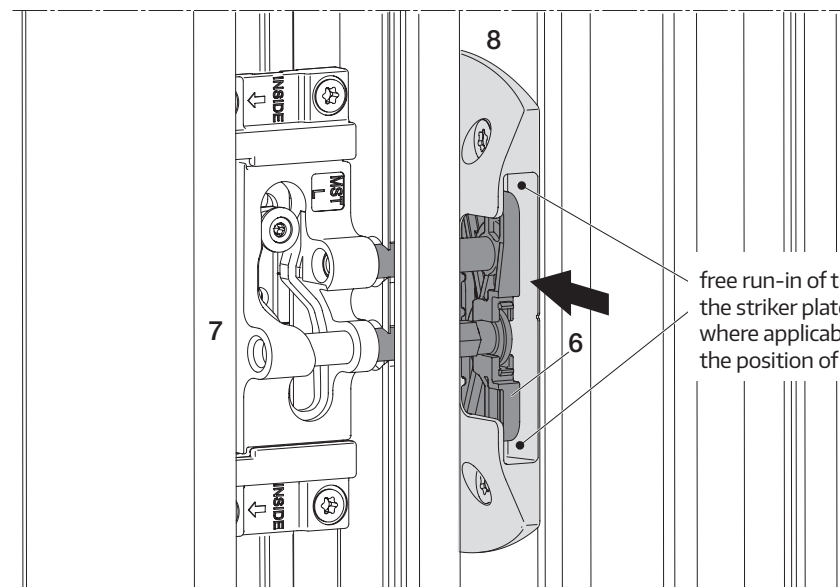


Illustration: Scheme A;  
for Scheme C, the striker  
plates are on the inactive  
leaf

\*) Positioning of the shootbolt in drill hole on upright readable L (left-hand version) or R (right-hand version)

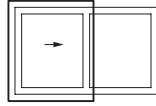
## Check the run-in of the locks MST

(on all MST striker plates)

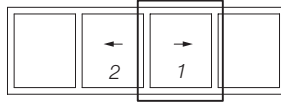


free run-in of the locking parts (6) into  
the striker plates (8);  
where applicable, correct and reassemble  
the position of the striker plates

Scheme A

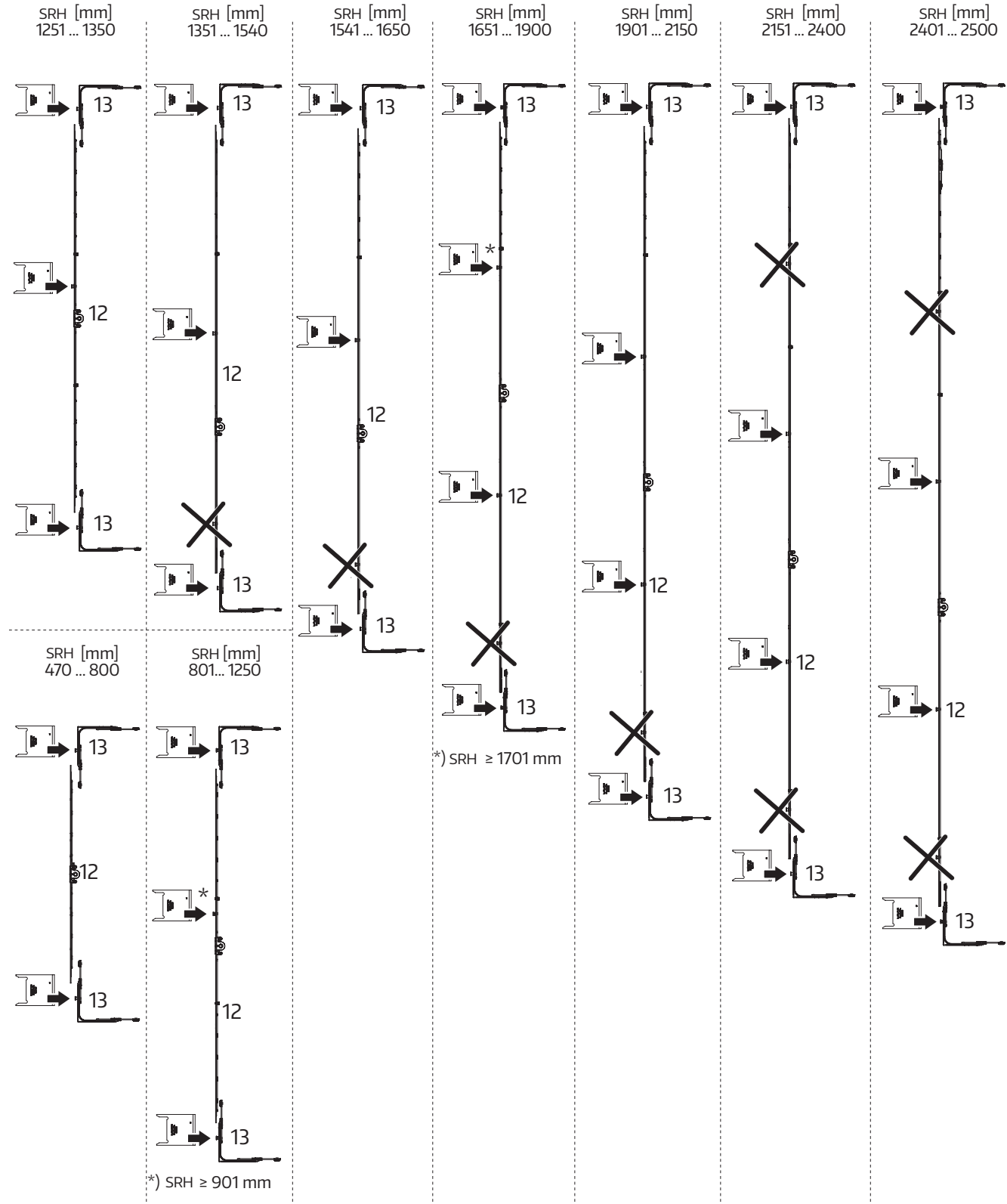
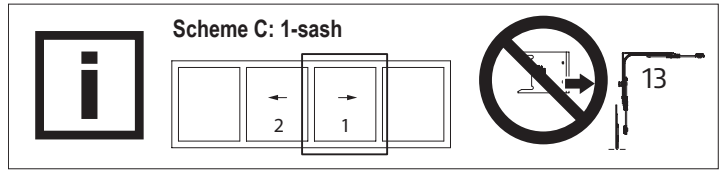


Scheme C: 1-sash

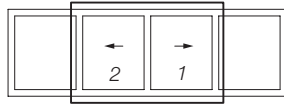


## Positioning of the drilling jig for handle-side striker plates

for handle 161 FEG-PCI / 160 FEG-PCO:  
see separate section



Scheme C



## Upper rebate assembly for Scheme C

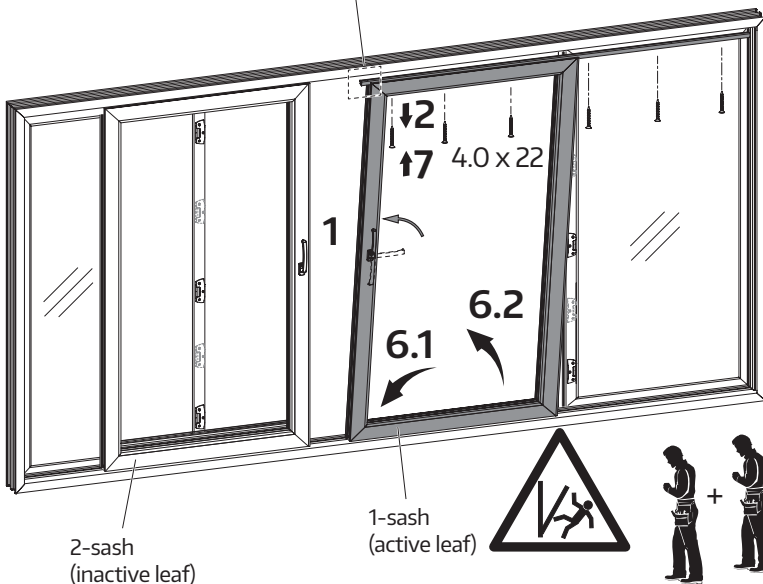
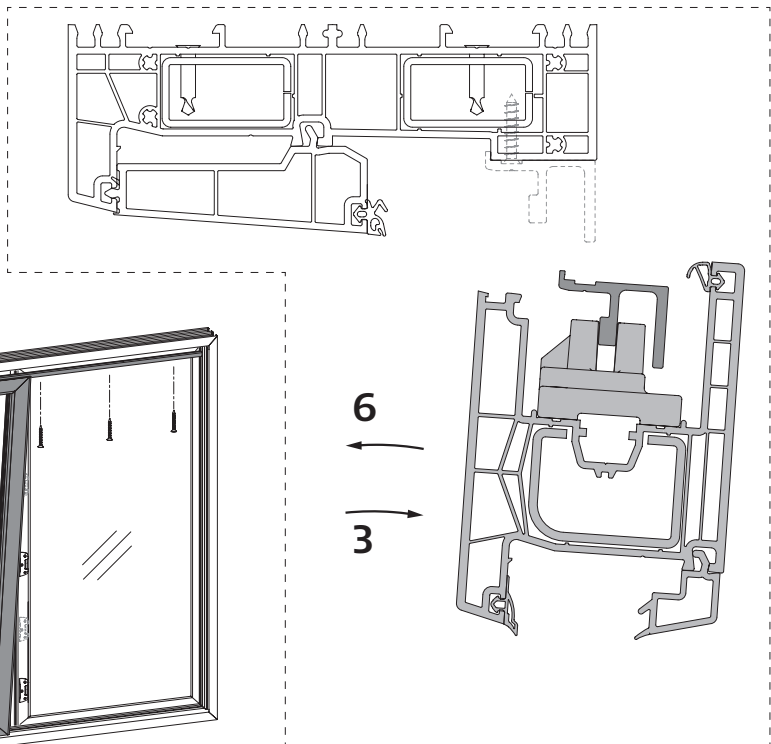
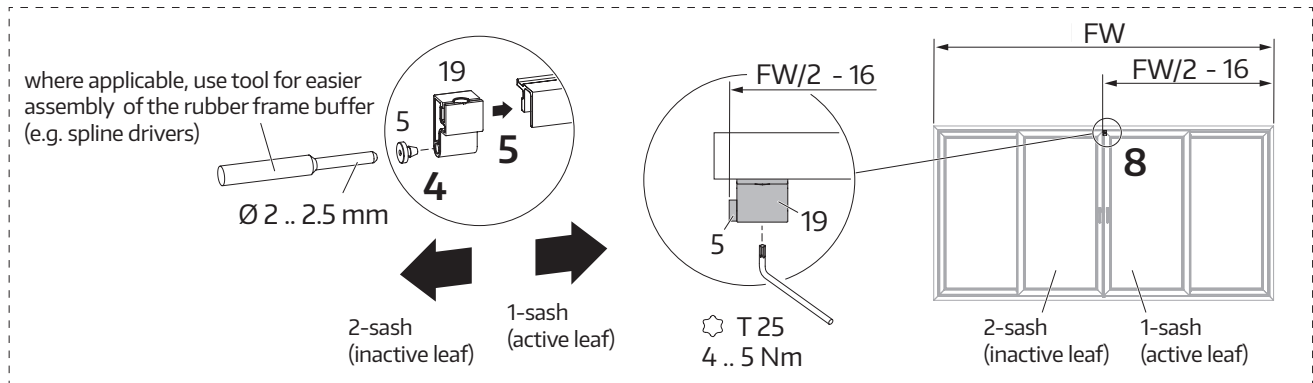


**Warning!**

Do not perform the following steps alone. For this purpose, a second person is needed. Otherwise, material damage and bodily injuries may occur.

The work steps (1), (2), (3), (5), (6) and (7) may only be carried out when the upper rebate on page 27 is not pushed onto the guide track.

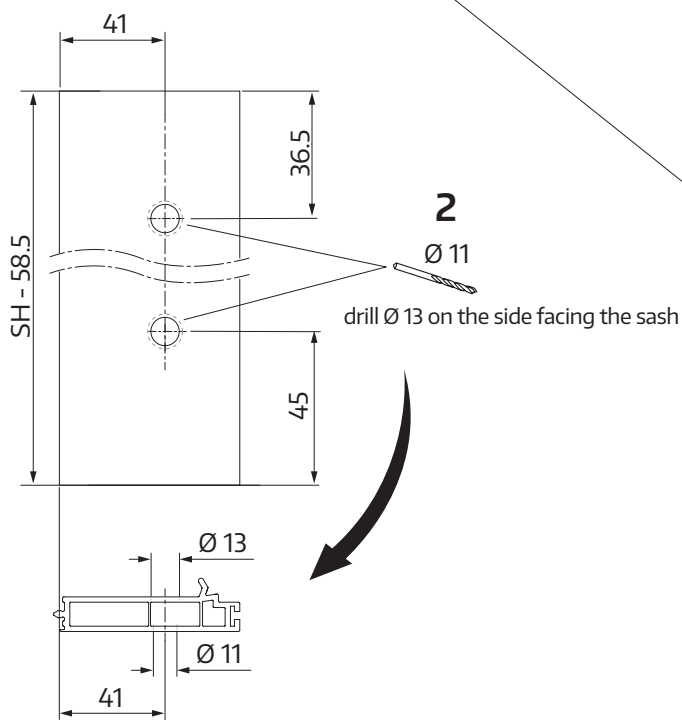
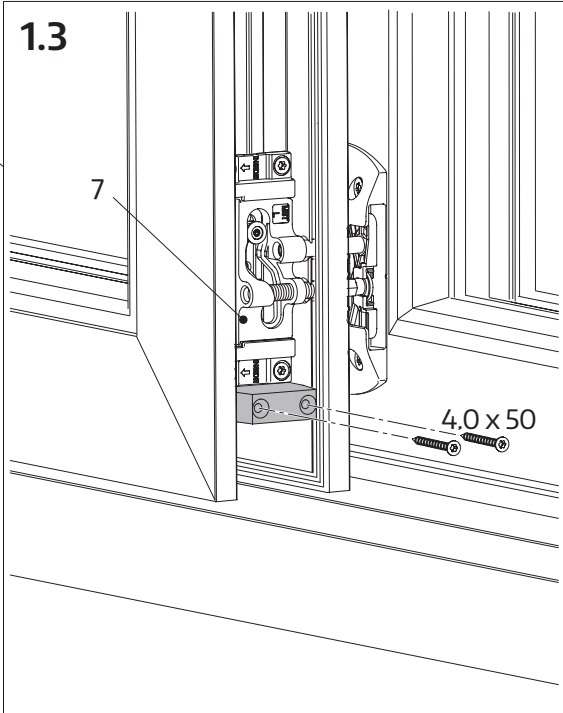
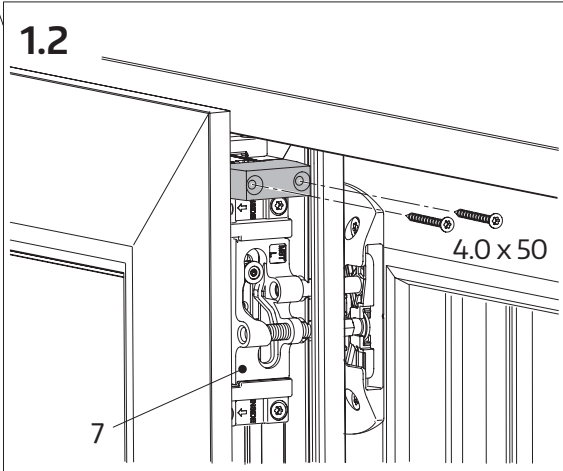
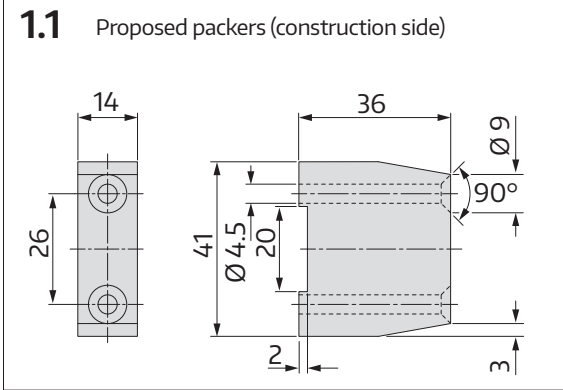
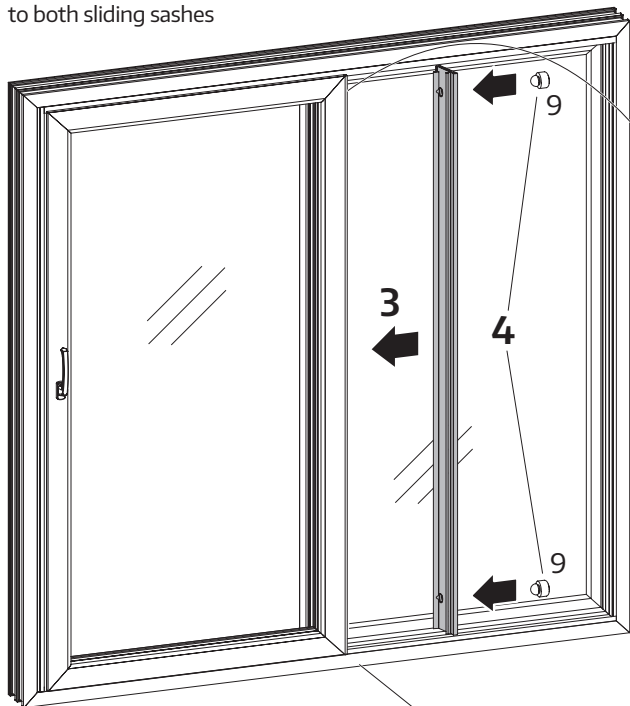
- (1) Position the handle upwards.
- (2) Unscrew the guide track from the frame in the area of the active leaf.
- (3) Remove 1-sash (active leaf) from the frame.
- (4) Mount the rubber frame buffer (5) in the upper rebate (19) as shown (orientation to the side of the inactive leaf).
- (5) Slide the upper rebate (19) onto the guide track as shown.
- (6) Swivel in the 1-sash (active leaf) with the guide track.
- (7) Screw the guide rail back onto the frame with screws 4.0 x 22 (alternatively drill screws 3.9 x 25).
- (8) Position and screw in the upper rebate (19) as shown (⊕ T 25, 4 .. 5 Nm)!



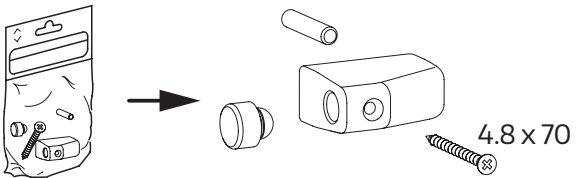
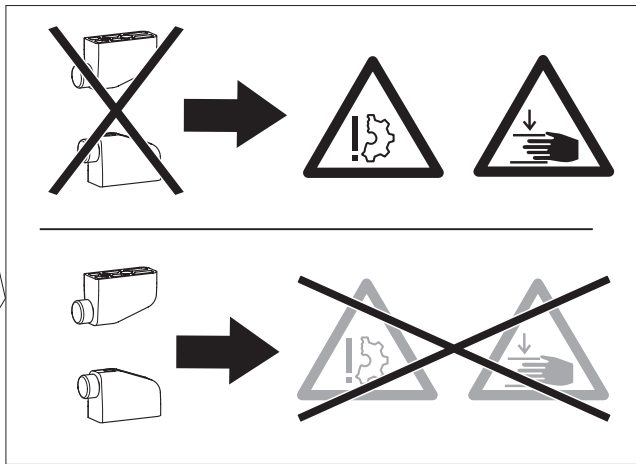
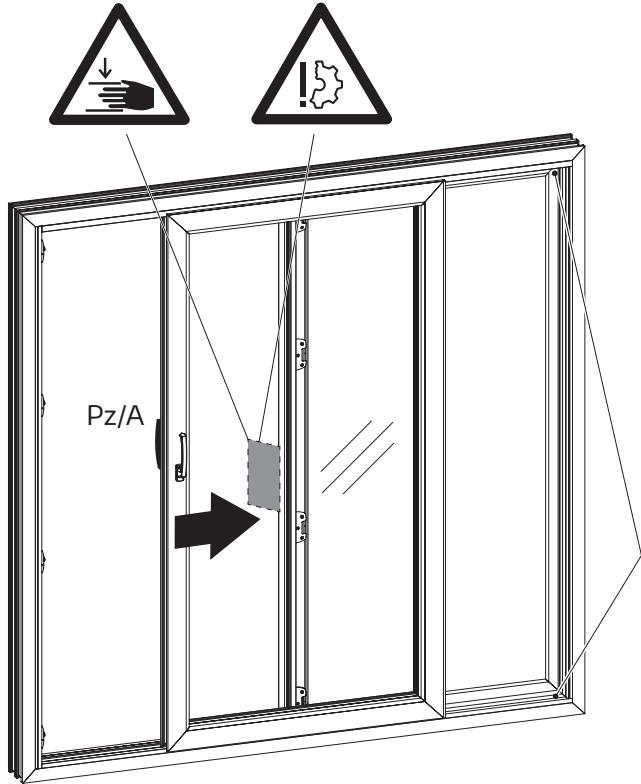
# Rubber mushroom buffer assembly

- (1) Use shims for the track cover on both corner elements on the non-handle side. Pay attention to the free movement of the hardware.
- (2) Drill 2 holes with  $\text{Ø } 11$  into the track cover of the sliding sash and insert recesses into the track cover as per the diagram.
- (3) Assemble the track cover.
- (4) Insert rubber mushroom buffer into the holes of the track cover.

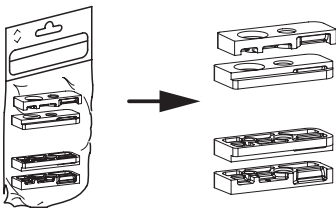
Illustration: Scheme A;  
or Scheme C corresponding  
to both sliding sashes



# Assembly of optional casement stop



BZ casement stop		
black	white	grey
187477	187480	239855



BZ base plate casement stop		
black	white	grey
485030	485029	485031



# Assembly of optional casement stop (cont'd)

Two buffer stops are mounted for each fixed sash.

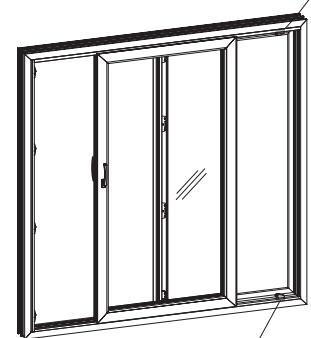
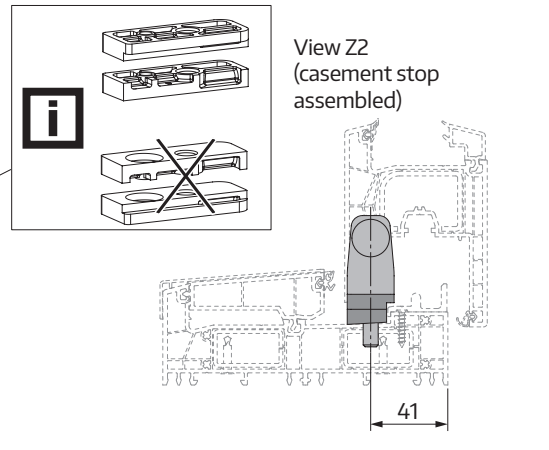
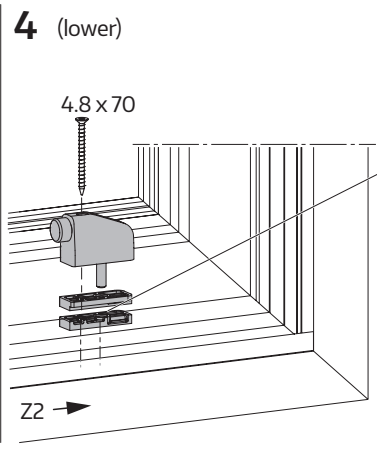
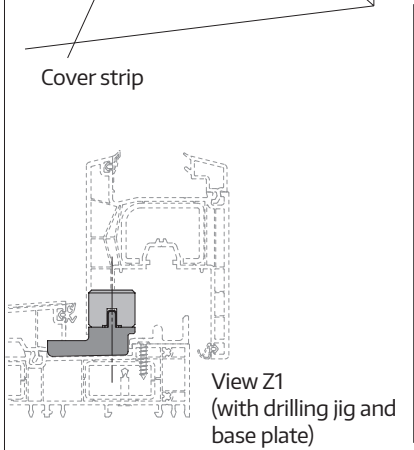
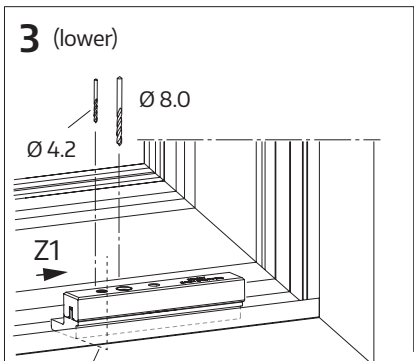
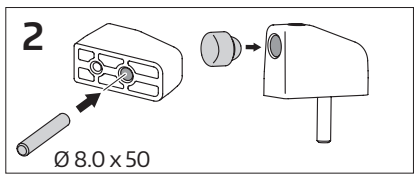
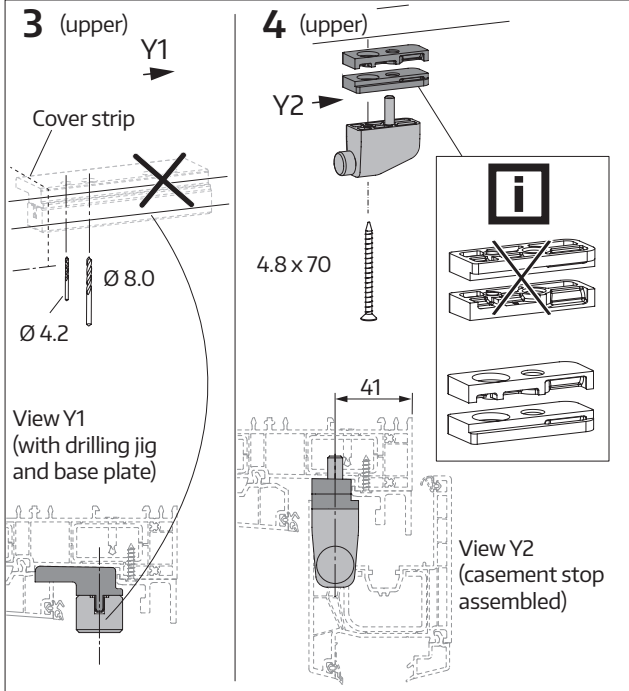
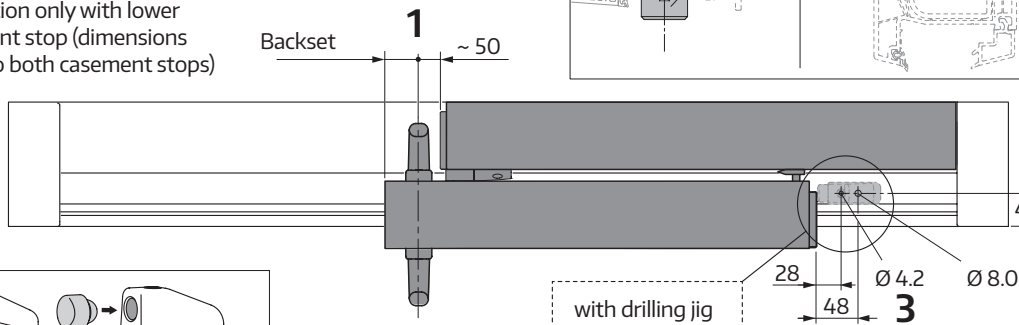
- (1) Push the sliding sash as far as shown.
- (2) Insert the bolts  $\varnothing 8.0 \times 50$  and the rubber mushroom buffer into the respective buffer stop.
- (3) Drill each of the holes for the bolts with  $\varnothing 8$  (if necessary, with  $\varnothing 8.2$ ) and for the screws with  $\varnothing 4.2$  (see also views Y and Z).

With drilling jig: Slide the base plate drilling jig with the drilling jig against the cover strip of the sliding sash and drill the holes for the bolts and screws.

- (4) Screw on the buffer stops and base plates with  $4.8 \times 70$  screws.

**i Important Note:**  
A different base plate is to be used for the upper buffer stop than for the lower buffer stop.

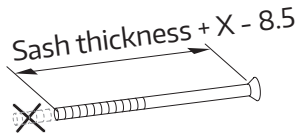
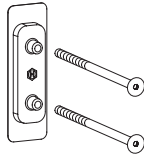
Illustration only with lower casement stop (dimensions apply to both casement stops)



# Optional handle grip assembly

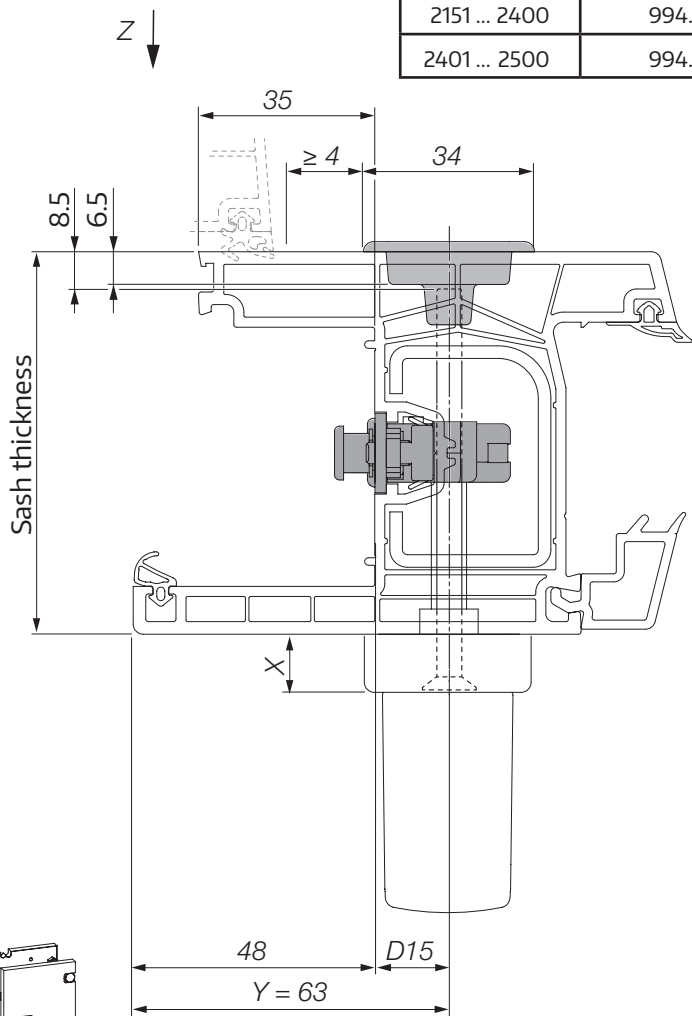
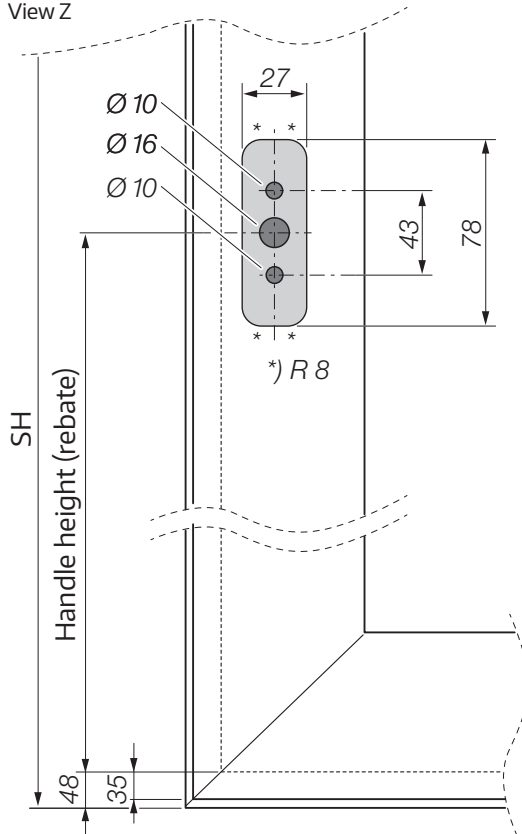


Scheme A: 1x  
Scheme C: 2x

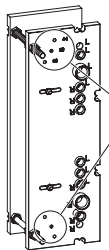


SRH	Handle height (rebate)
470 ... 800	1/2 SRH
801 ... 1250	1/2 SRH
1251 ... 1350	1/2 SRH
1351 ... 1540	544.5
1541 ... 1650	644.5
1651 ... 1900	994.5
1901 ... 2150	994.5
2151 ... 2400	994.5
2401 ... 2500	994.5

View Z

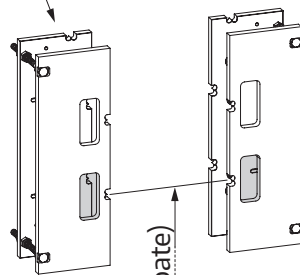


Use of the drilling jig  
(Article No. 250443)

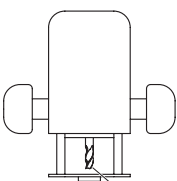


Adjust Y dimensions

Use with ...  
right-hand version  
= DIN EN 12519 left  
(opening to the left)



use:



Outlet ring Ø 27

Use with ...  
left-hand version  
= DIN EN 12519 right  
(opening to the right)

Handle height (rebate)

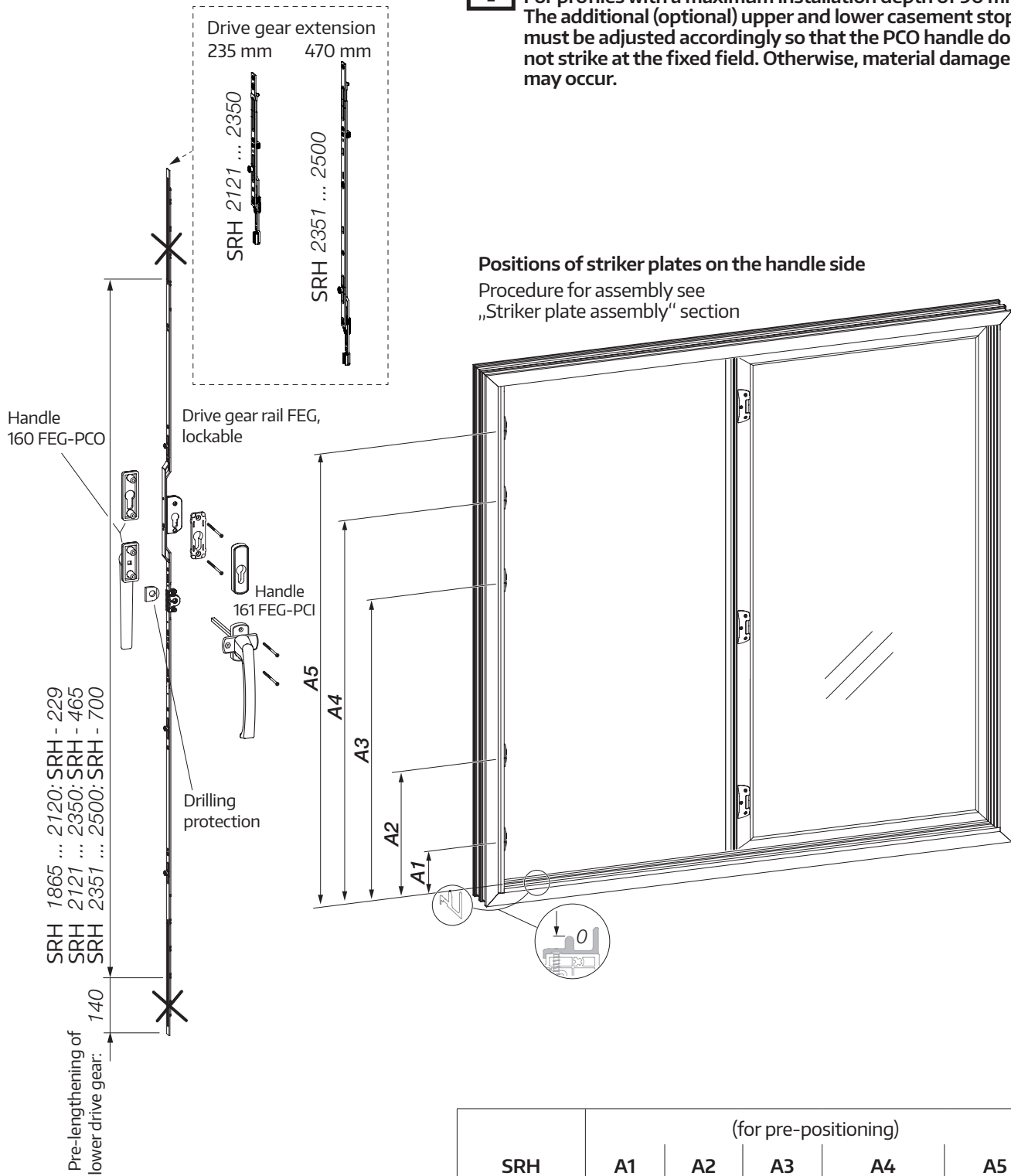
# Optional handle assembly 161 FEG-PCI / 160 FEG-PCO

(recommended in conjunction with optional casement stops)



### Important Note:

For profiles with a maximum installation depth of 90 mm. The additional (optional) upper and lower casement stops must be adjusted accordingly so that the PCO handle does not strike at the fixed field. Otherwise, material damage may occur.



SRH	(for pre-positioning)				
	A1	A2	A3	A4	A5
1865 .. 2120	100	725	1389.5	-	SRH - 40
2121 .. 2350	100	725	1389.5	-	SRH - 40
2351 .. 2500	100	725	1389.5	SRH - 253.5	SRH - 40

# Optional handle assembly 161 FEG-PCI / 160 FEG-PCO (cont'd)

Handle 161 FEG-PCI

X = Ø 4.2

Handle 160 FEG-PCO

X = Ø 12

**Detail A**

12

96

42.5

125

60

12

12

17

13

197.5

D15

Griffhöhe (Falz)

**Use of the drilling jig (Article No. 250443)**

use:

Ø 12

Ø 20

**1** Adjust Y dimensions (see page 34)

SRH

Handle height (rebate)

197.5

31.5

16

31.5

Ø 20

Ø 20

X

X

Ø 12 (3x)

43

D15

Use with ... left-hand version = DIN EN 12519 right (opens to the right)

Use with ... right-hand version = DIN EN 12519 left (opens to the left)

**2**

**3**

Ø 4.2/12

Ø 20

Ø 4.2/12

3x Ø 12

L

R

**4.1**

16 mm

**4.2**

Ø 20

L

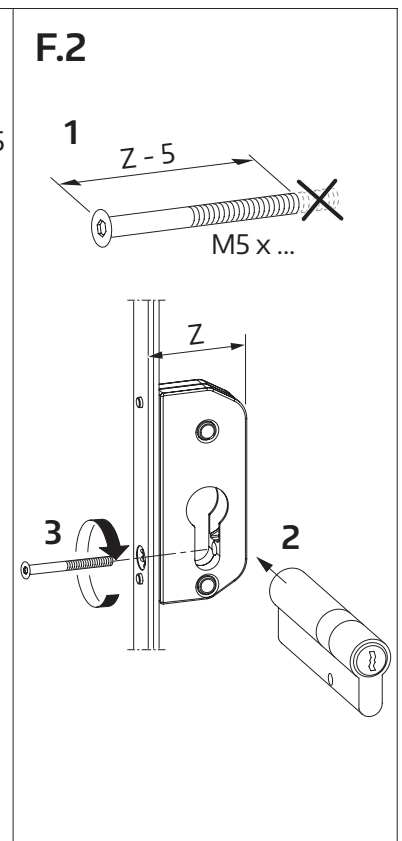
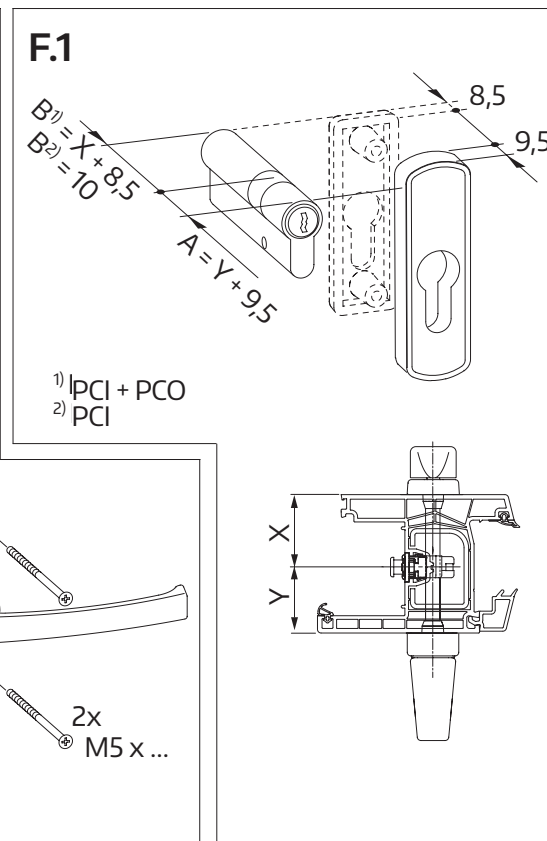
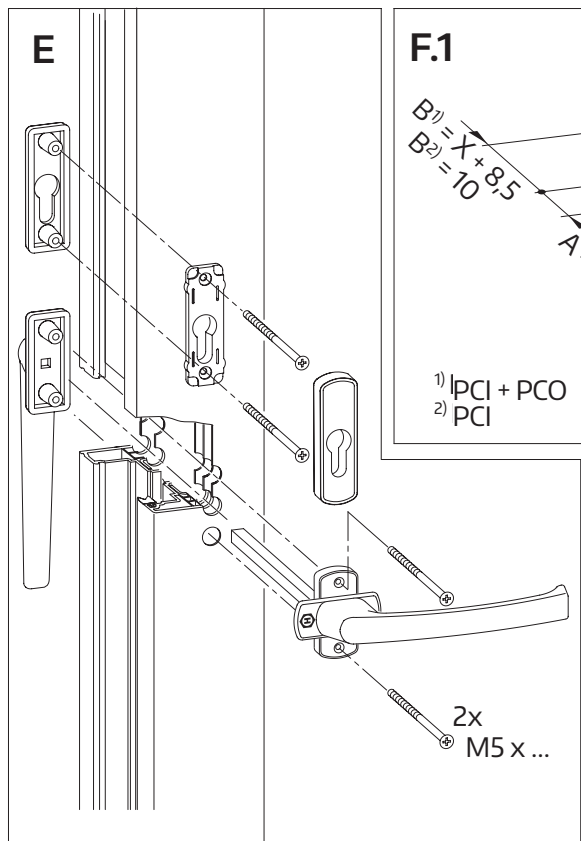
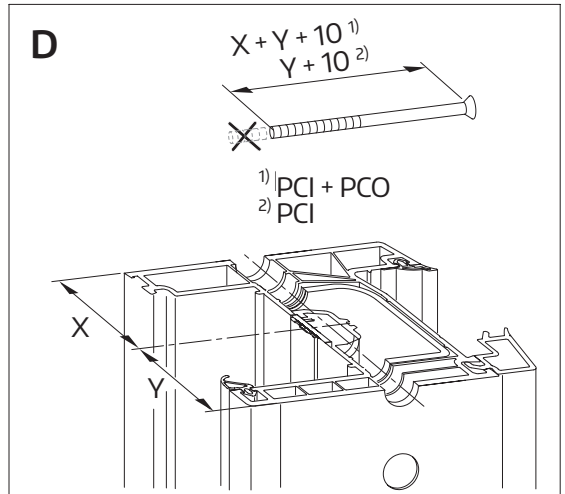
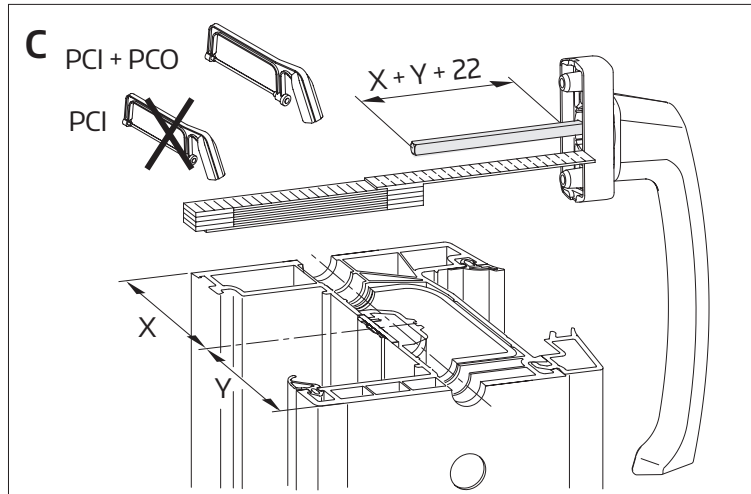
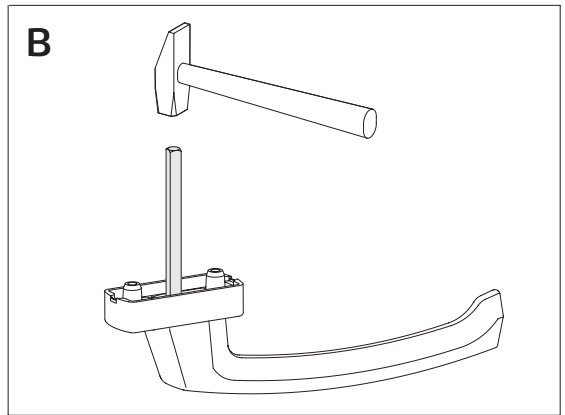
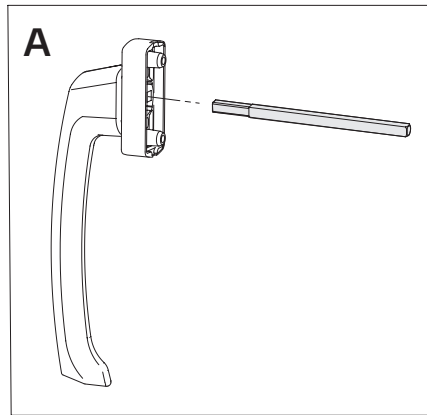
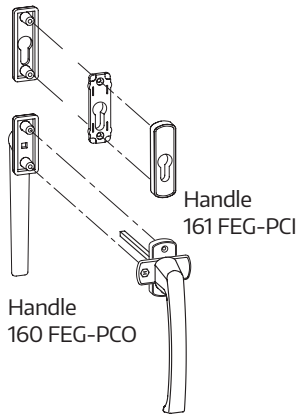
R

Handle height (rebate)

16

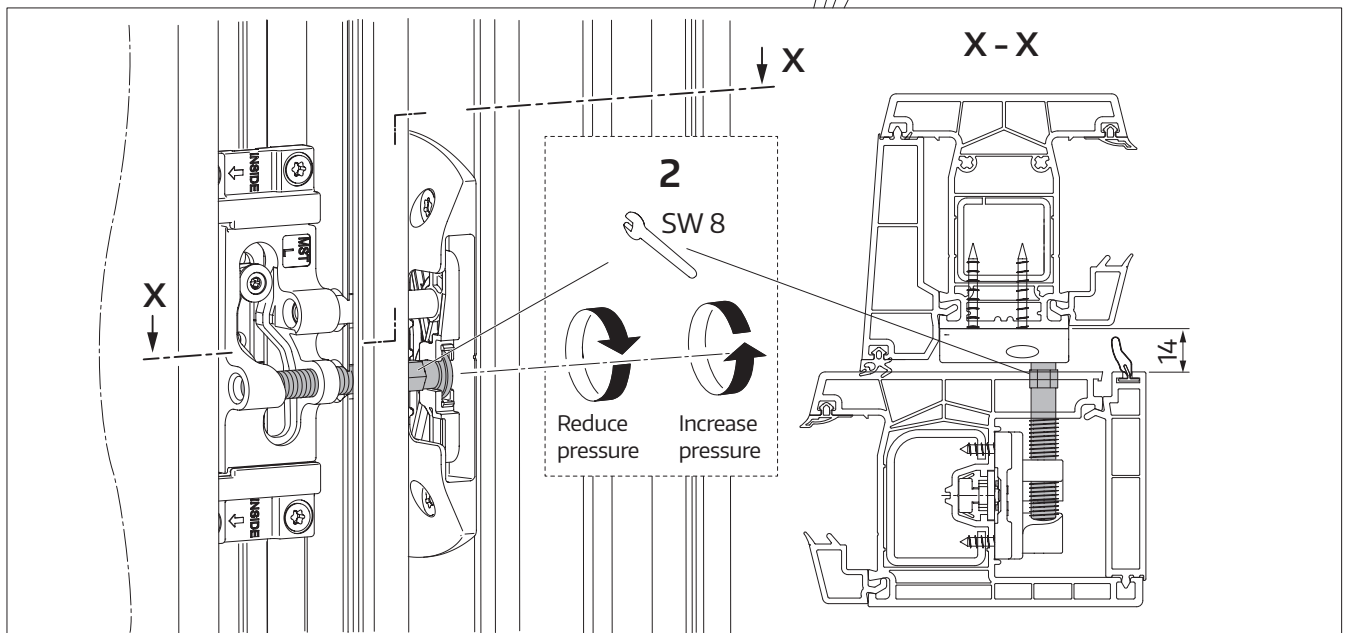
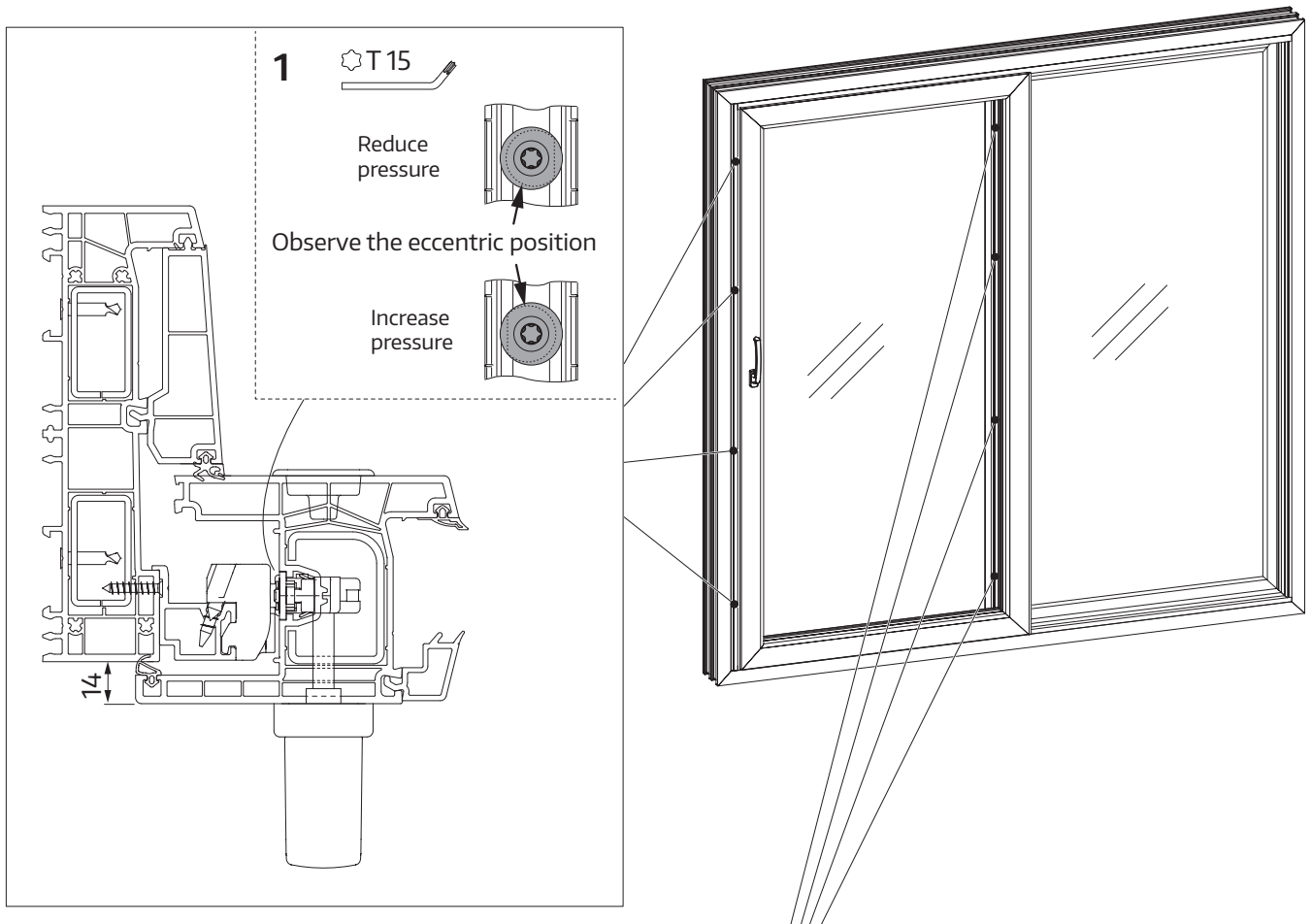
SRH	Handle height (rebate)
1865 ... 2120	994.5
2121 ... 2350	994.5
2351 ... 2500	994.5

# Optional handle assembly 161 FEG-PCI / 160 FEG-PCO (contd.)



# Sash pressure adjustment

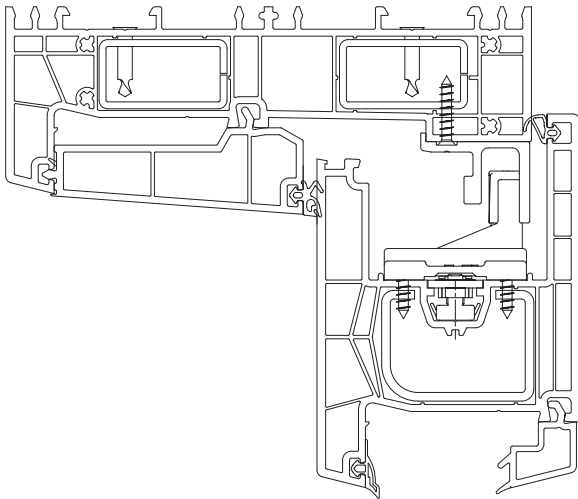
- (1) Handle side:  
Check closing behaviour of the sash. Adjust the sash pressure by setting the rebate height (14 mm) by means of ⚙ T 15 on all drive gear shootbolts and corner elements on the handle side.
- (2) Middle joint: Check closing behaviour of the sash. Adjust the sash pressure by setting the dimension 14 mm by means of SW 8 on all locking parts MST (adjust in sliding position).



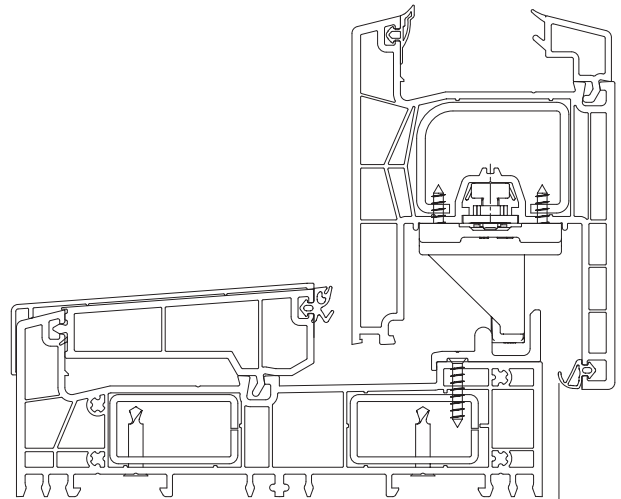
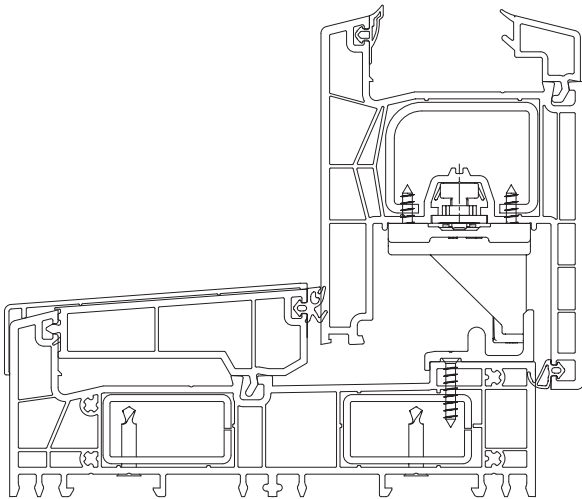
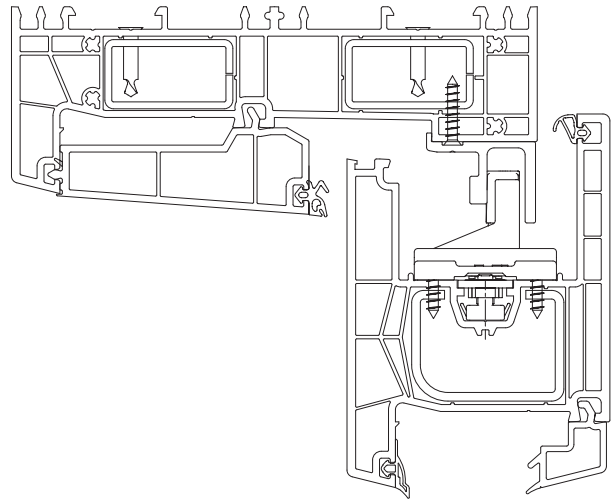
# Vertical cross-section overview

no scale

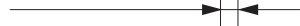
Sashes closed



Sashes parked (= 6 mm)

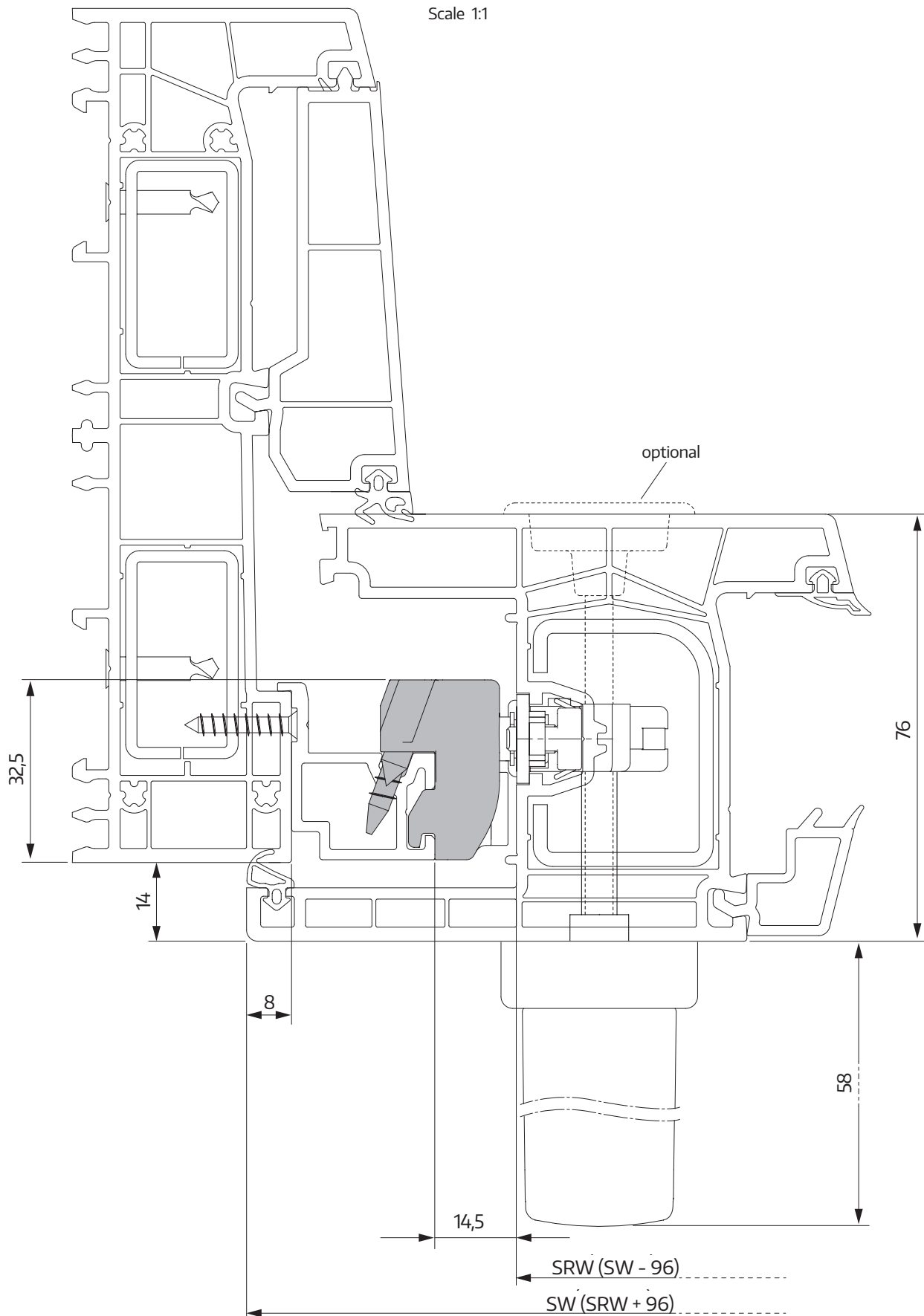


Park width = 6



# Handle horizontal cross-section

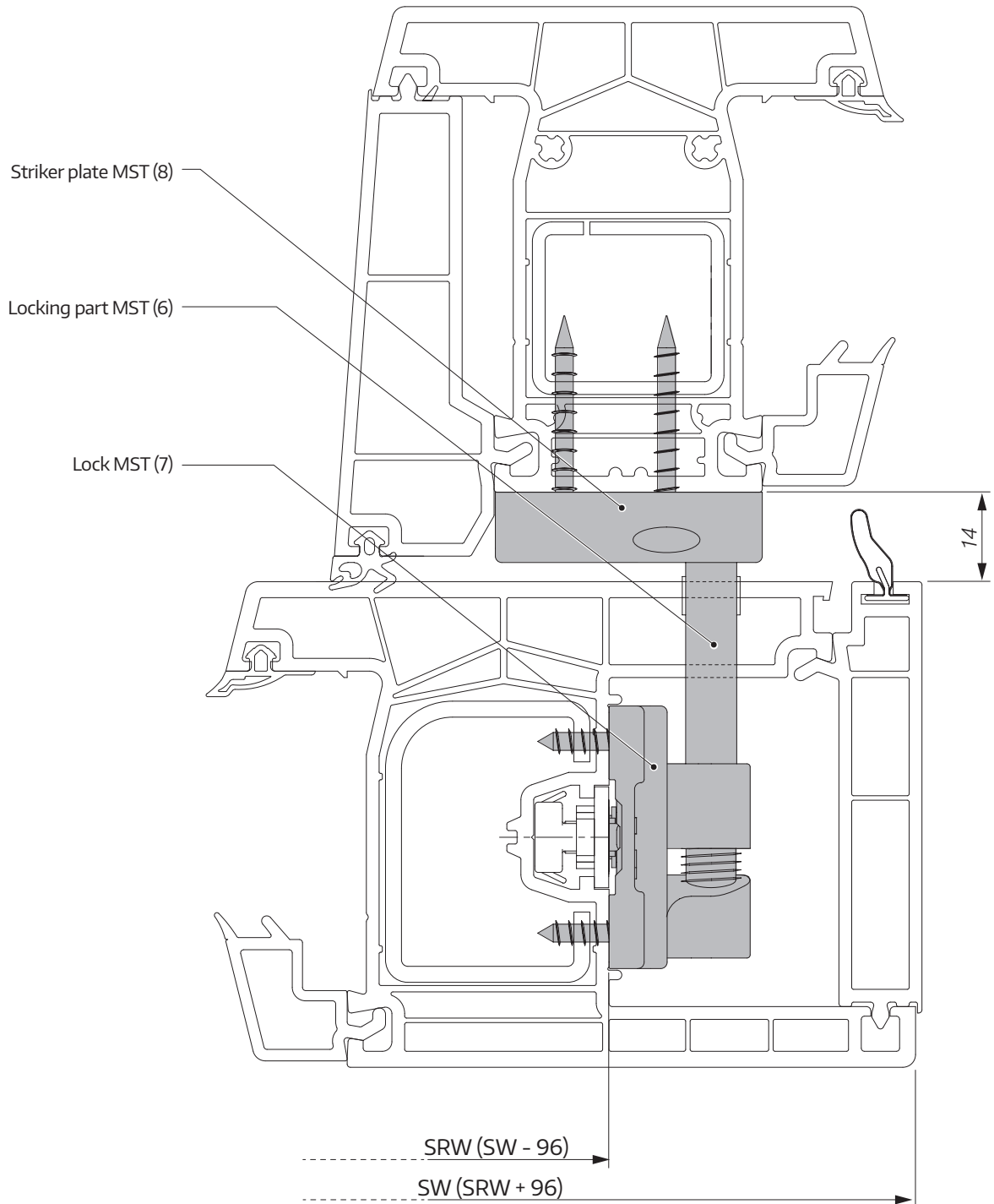
Scale 1:1





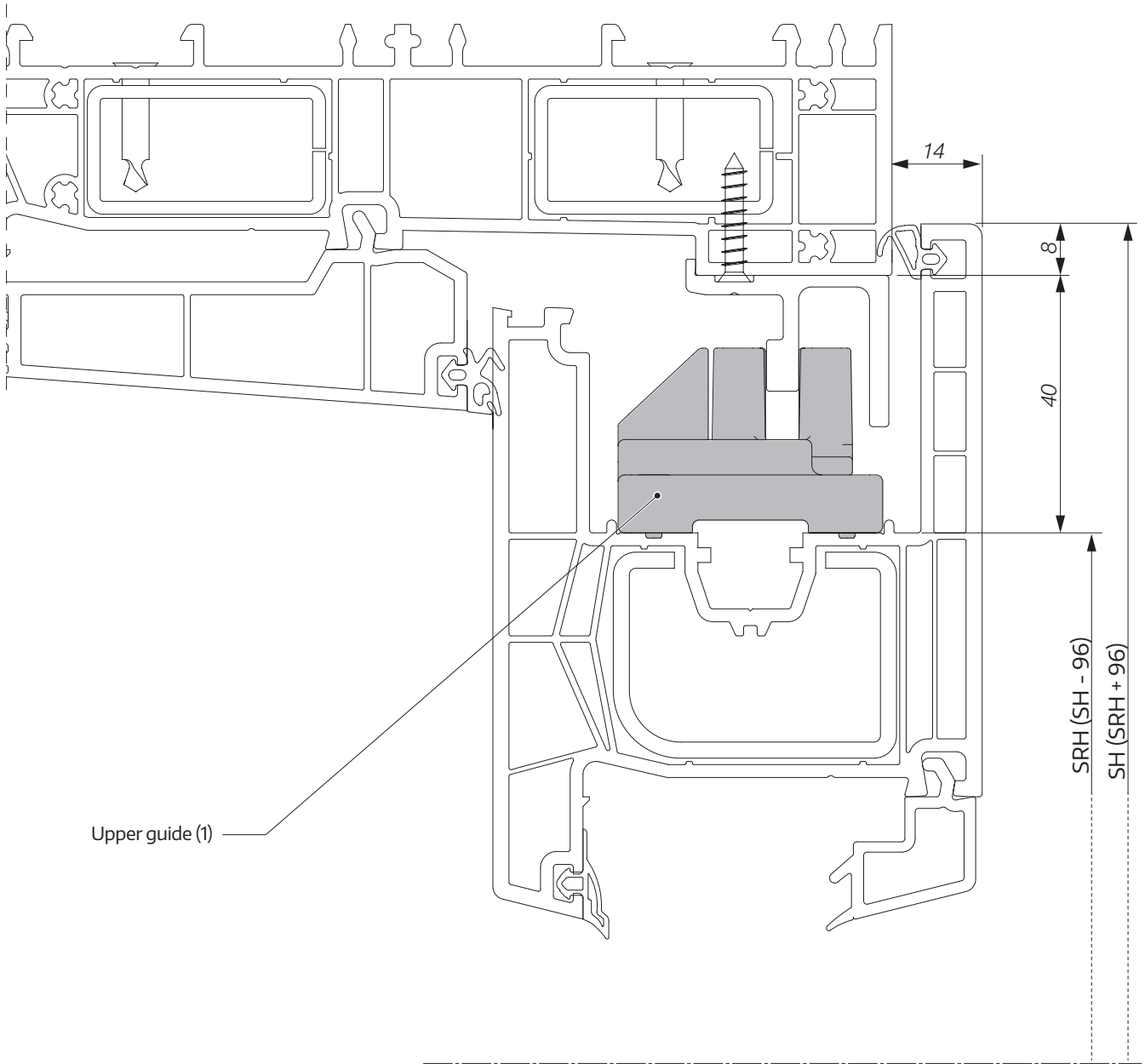
# Middle joint horizontal cross-section

Scale 1:1



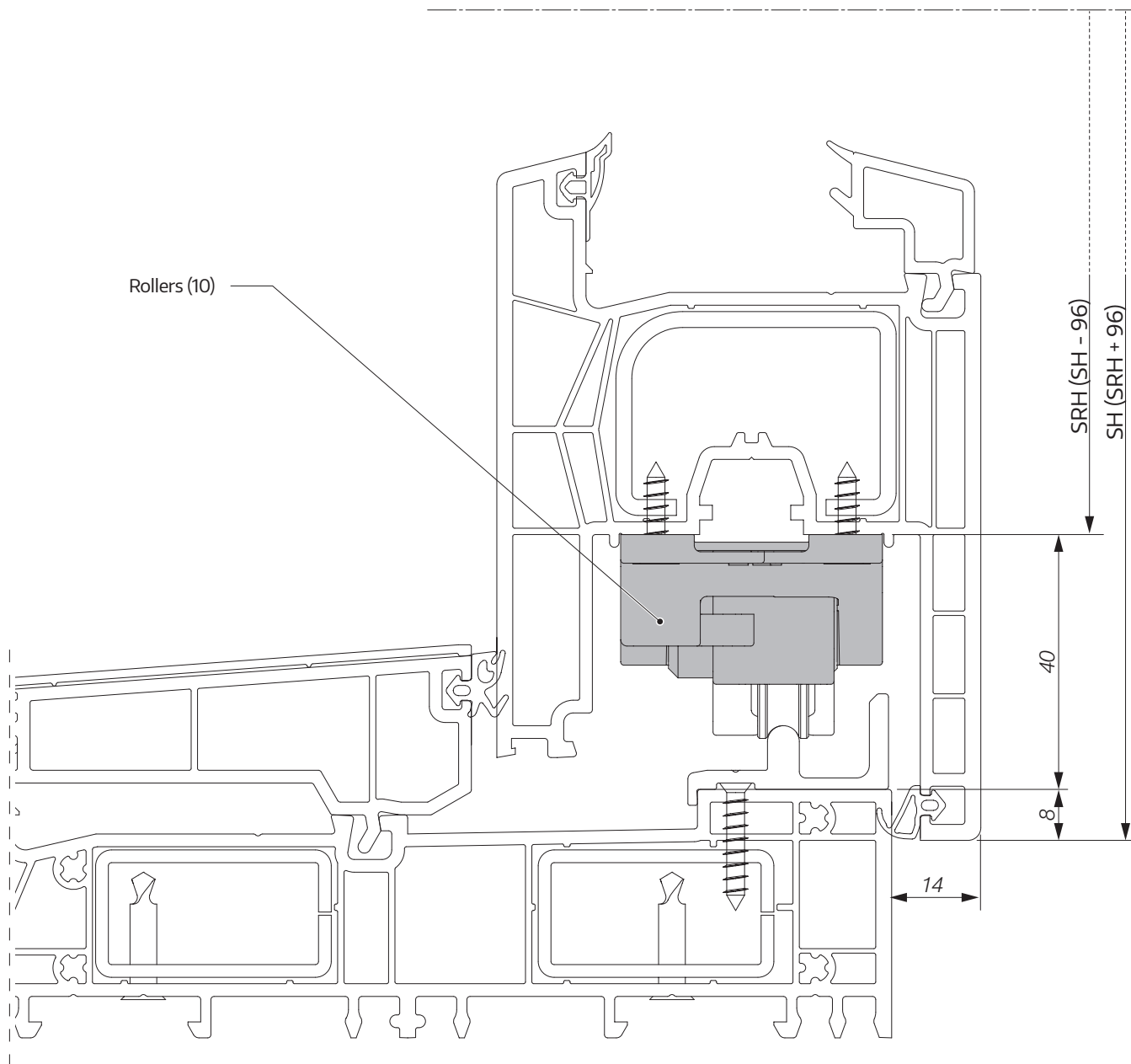
# Upper guide vertical cross-section

Scale 1:1



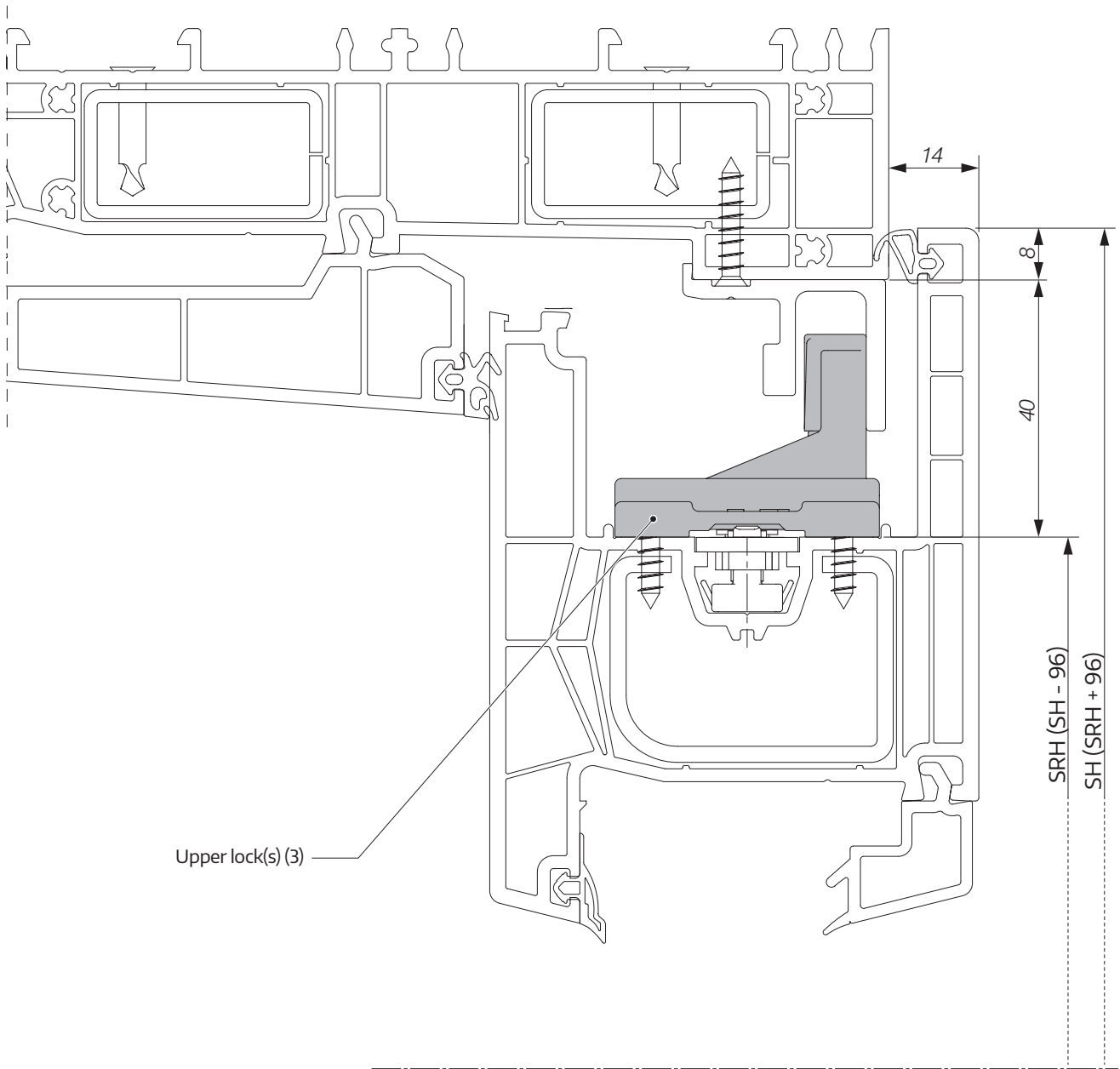
# Roller vertical cross-section

Scale 1:1



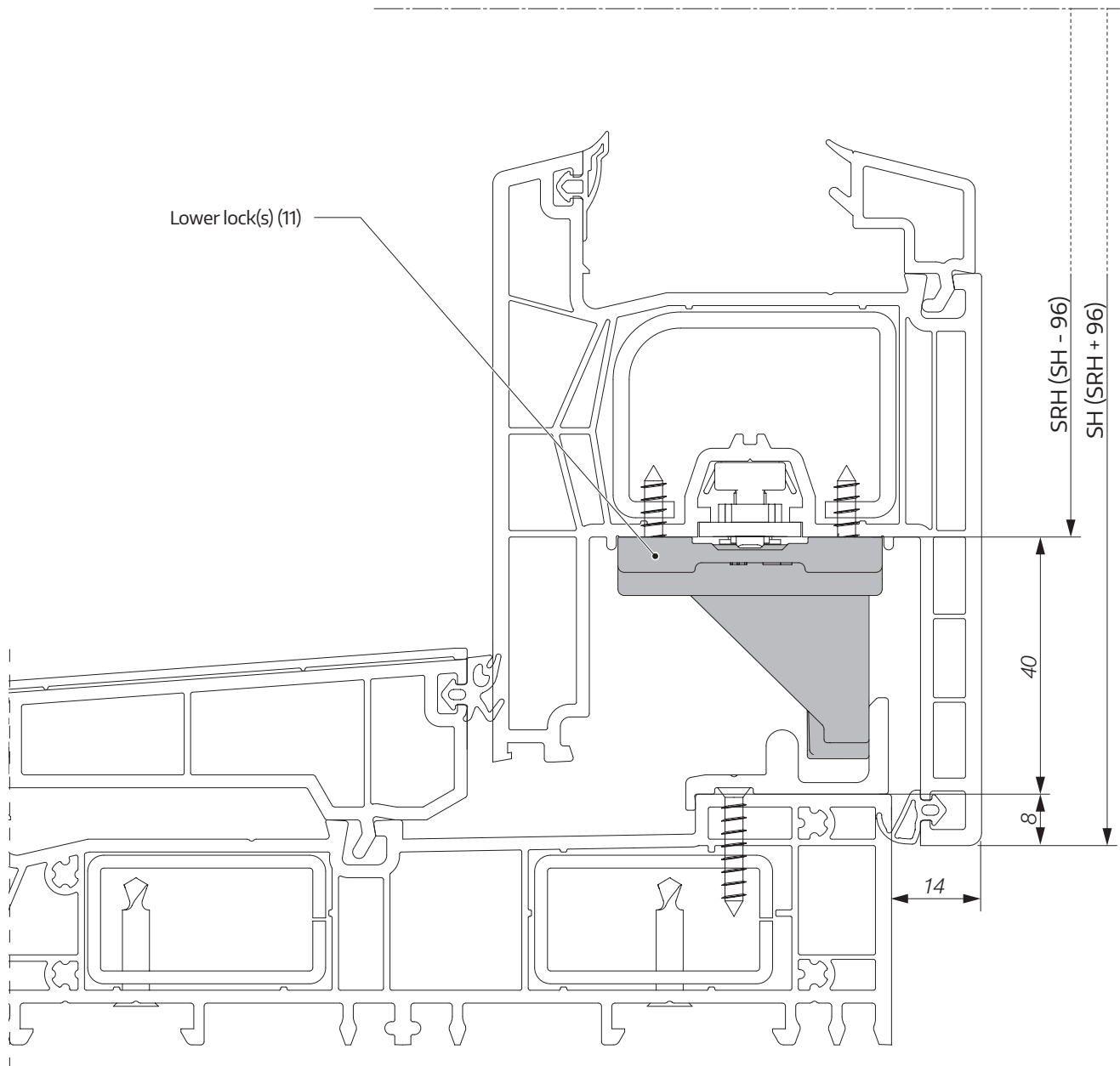
# Upper lock(s) vertical cross-section

Scale 1:1



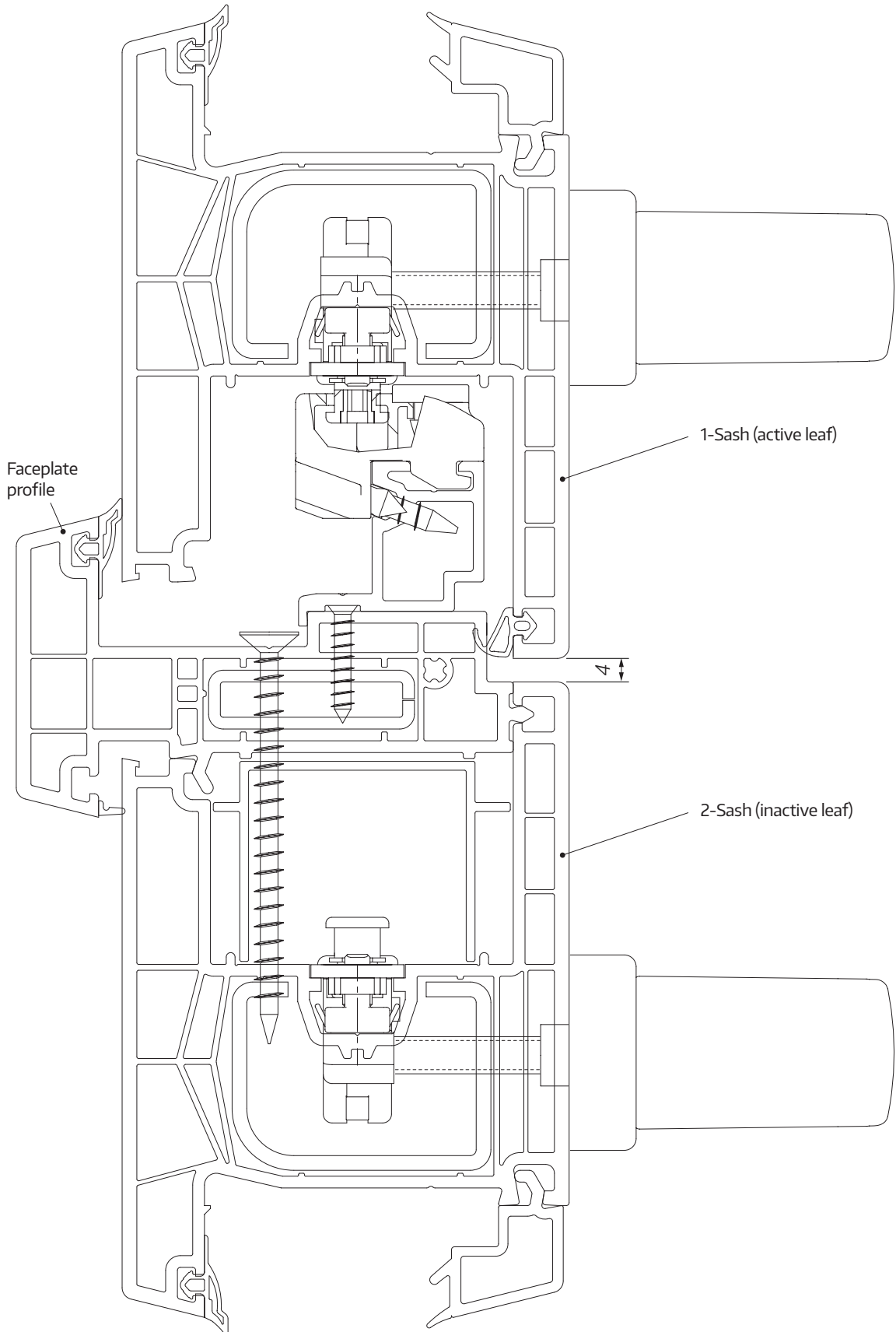
# Lower lock(s) vertical section

Scale 1:1



# Scheme C horizontal cross-section

Scale 1:1





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