

ATRIUM® SP komfort

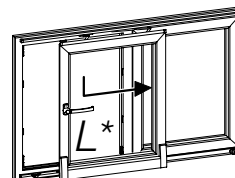
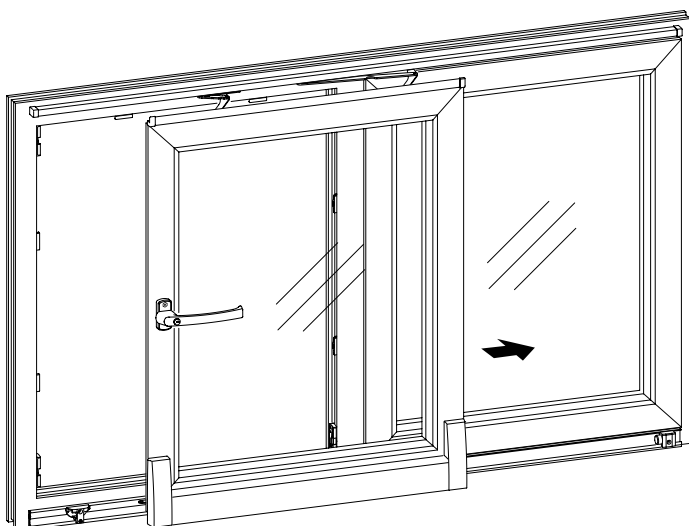
Mounting instructions

GB

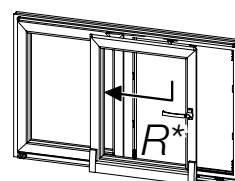
A9/ Axial spacing 9 mm /
A13 Axial spacing 13 mm



with night vent
function



* HAUTAU version Left
= DIN EN 12519 Right
(right-opening)



* HAUTAU version Right
= DIN EN 12519 Left
(left-opening)

All figures within this document refer to HAUTAU version Left (DIN EN 12519 Right).

For assembling the HAUTAU versions Right (DIN EN 12519 Left) measures have to be applied mirrored.

Notes:

- This instruction specifies the installation with HAUTAU central locking components/hardware. If different hardware is being used please follow installation instructions of central locking manufacturer.
- This instruction shows all mounting steps to build an parallel-slide-element with night vent function.
- Handle position centered ($\frac{1}{2}$ FFH). A handle position below $\frac{1}{2}$ of the sash rebate height (FFH) may interfere with the comfortable operation.
- For further **mounting applications** you need **following additional instructions**:
 - ATRIUM® SP komfort additional instruction – burglary-resistance version (**RC2 applicable**); item code 238283.
 - ATRIUM® SP komfort additional instruction – TWIN for sash weight >160 kg, FH > 2350, FB > 1650; item code 241869.
 - ATRIUM® SP komfort additional instruction – scheme C; item code 245044.
- **Before start-up, the fitting parts are to be greased** acc. to Maintenance and operating instructions (item code: 235873).

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Important information

Intended use

Parallel-slide-fittings ATRIUM® SP komfort are intended for use only in stationary buildings. They are used for the horizontal opening and closing of windows and window doors. The parallel-slide-fitting-elements must be installed perpendicularly, and under no circumstances may they be in a skewed position.

Prerequisite

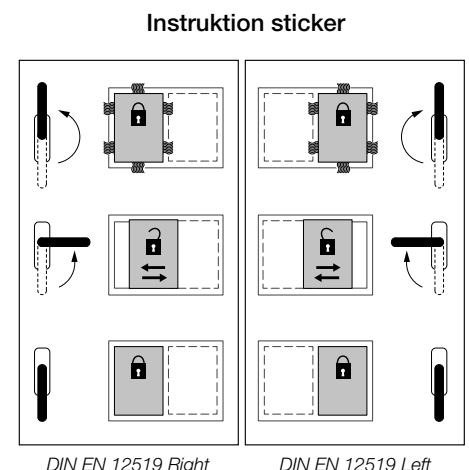
- These installation instructions and the installation of the fittings demand specialist knowledge corresponding to successfully completed training in at least one of the following trades: construction carpenter, construction metal worker, window and glass facade installer.
- Applications mentioned on page 3 of these mounting instructions apply to HAUTAU fitting system ATRIUM® SP komfort. Quoted tightening speeds and torques are binding.
- When **installing the fittings**, use screws which are **long enough** and which reach right **up to the steel reinforcement** in case of PVC profiles.
- **Under all circumstances comply with the handling guidelines of the profile manufacturer.**
- Fittings must not be used for timbers with aggressive contents and/or surface treatments.
- Parallel-slide-elements may be surface-treated only **before** the installation of the fitting parts.
Subsequent surface treatment may have a negative effect on the operability of the fitting parts.
In this case, all guarantee claims against the fitting manufacturer are nullified.
- The steel component parts described in these installation instructions have been passivated and sealed as per DIN EN 12329 using a colourless process. They must not be used in environments with aggressive and corrosive air components.
- Keep the runner rail and all rebates free of deposits and contamination, in order to avoid damage to the fitting and to ensure optimum functioning. **In particular, protect the fitting from cement or plaster residues.**
- Do not use acid-curing sealants, as these can result in corrosion of the fitting parts.
- Use acid- and solvent-free oils and greases, only.
- Avoid directly exposing the fitting to moisture, and prevent acid-containing cleaning agents from coming into contact with the fitting.
- The fitting manufacturer shall not be liable for any malfunction of or damage to the fittings as well as the windows or French doors fitted, if the malfunctions of the parallel-slide-fittings hardware can be traced back to the use of bought-in fittings, insufficient invitation to tender, non-observation of the rebating instructions or application diagrams.
- The installing party shall be responsible for the adherence to the functional dimensions given in these mounting instructions and workshop drawing as well as for a perfect installation of the fittings and safe attachment of all components.

Safety

- Do not open or disassemble the individual fitting parts (especially the stay system and power storage unit). Failure to comply with these instructions can result in bodily injuries. Send defective fitting parts back to the factory.

User information

- Hand out product together with maintenance and operating instructions to end-user (Item-Code: 235873).
- Chose a clearly visible position at installed window sash for instruction sticker (sliding direction DIN left and DIN right). For HAUTAU central locking: instruction sticker can be found in box “Bogies for ATRIUM® SP komfort”.
- **Please comply with the “Requirements/instructions on the product and on liability (VHBH)”. Please inform the end-user about the content of the “Requirements/instructions for end-users (VHBE)”.**
- Keep these installation instructions in a safe place.



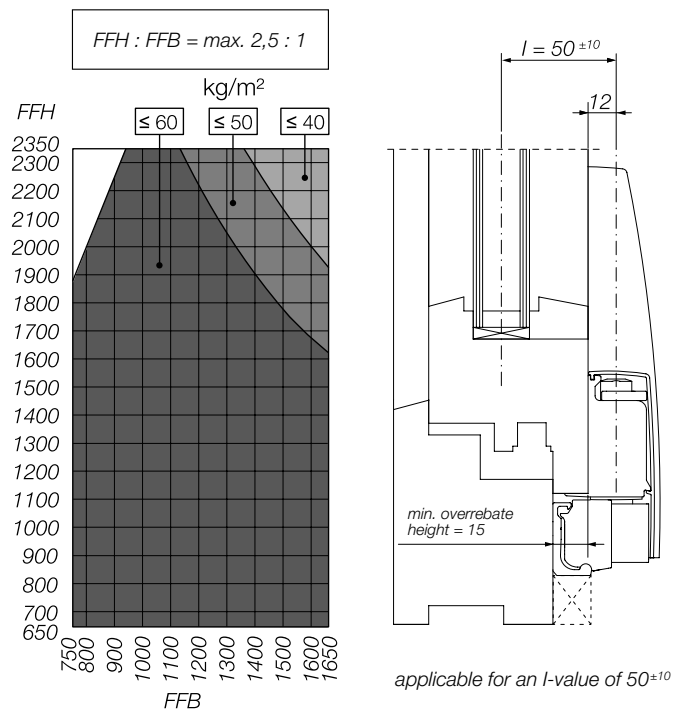
Applications, Abbreviations, Screws

Applications

The limits of application quoted in these instructions are binding and must not be exceeded.
Please also comply with admissible sizes, manufacturing instructions and processing guidelines given by the profile manufacturer.

ATRIUM® SP komfort

Sash rebate width (FFB) [mm]	750 up to 1650
Sash rebate height (FFH) [mm]	650 up to 2350
Sash weight [kg]	max. 160
Handle position	½ FFH
Burglary-resistance	possible



Fixing screws for fittings

Not included in scope of delivery. Length must be chosen according to profiles used.

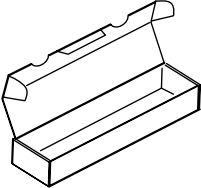
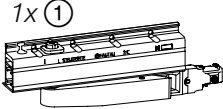
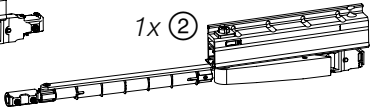
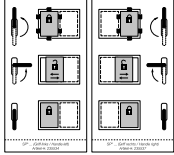

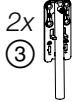

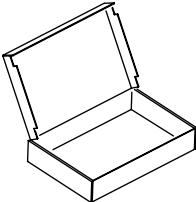
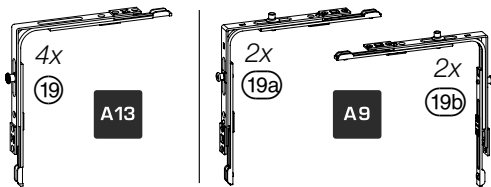
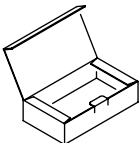
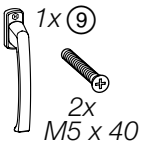

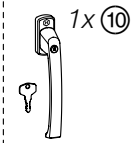

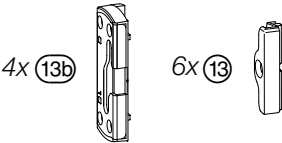




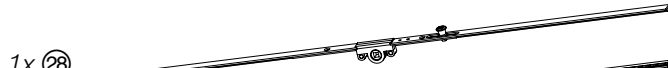


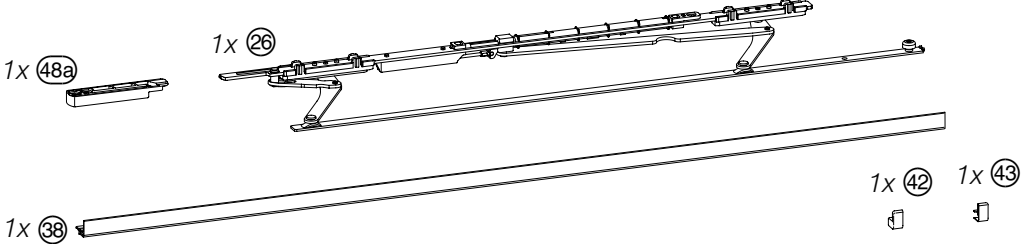
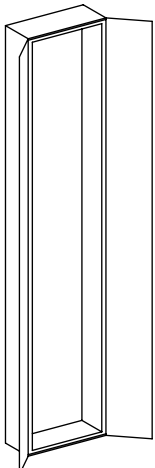
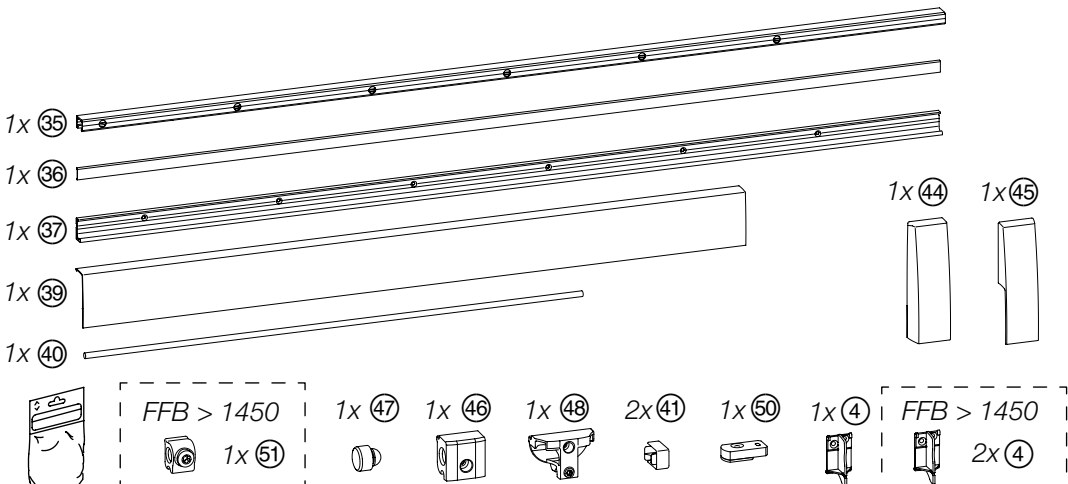
Countersunk screws	3.9 x ... mm
Countersunk screws	4.0 x ... mm, Important: Head diameter d_k 7 mm
Countersunk screws	4.8 x ... mm

Abbreviations

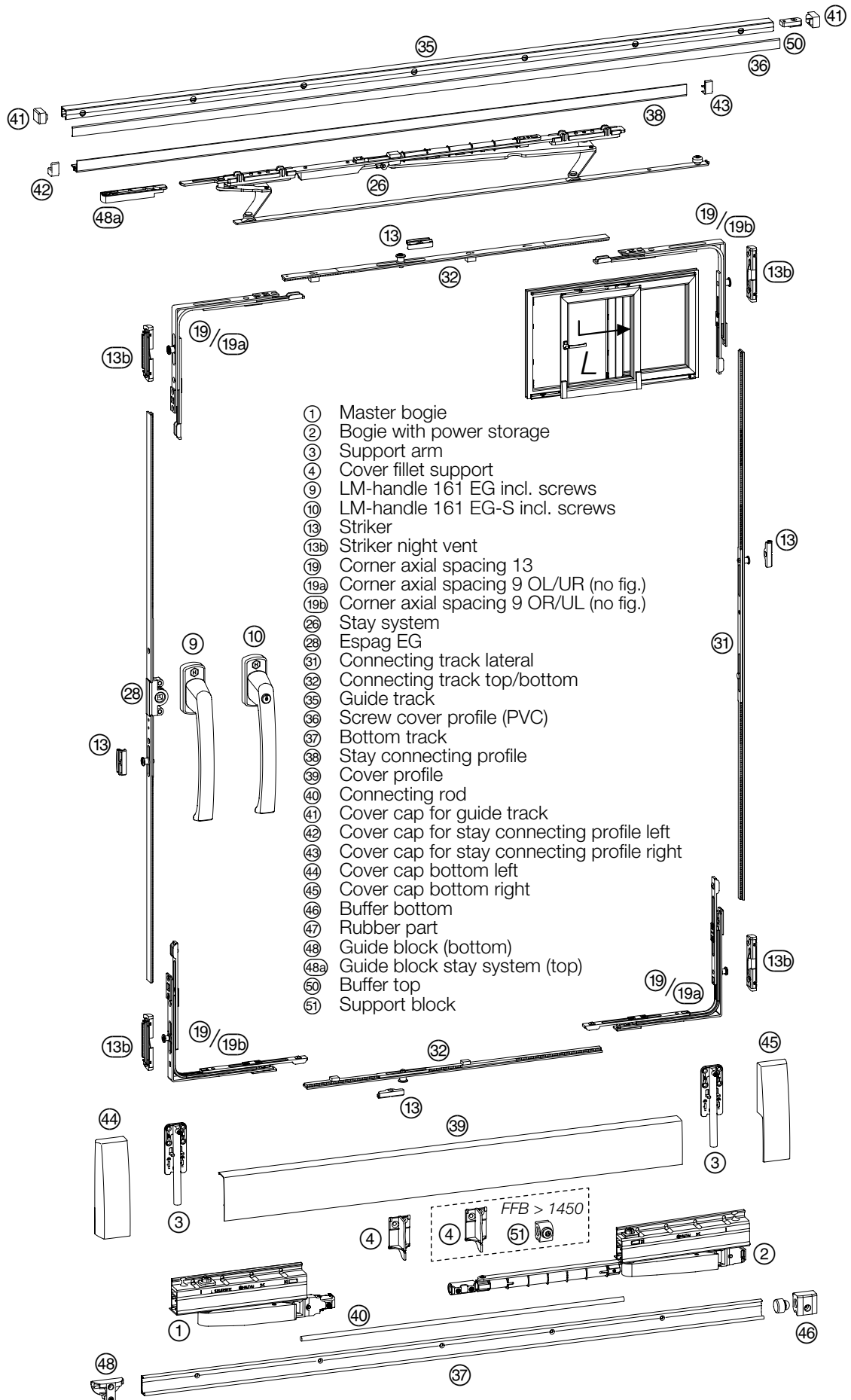
D	Backset
EG	Espag
EG-S	Espag, lockable
FFB	Sash rebate width
FB	Sash width
FFH	Sash rebate height
FFK	Sash rebate edge
OKFF	Top edge finish-floor level
Gr	Size

All measurements in these instructions are indicated in millimetres (mm).

Packing units

	 1x ①  1x ②	  Instruction sticker  2x ③  Maintenance and operation instruction
		
	 1x ⑨  2x M5 x 40  1x ⑩	... Only for HAUTAU central locking ...
	 4x ⑬b  6x ⑬  A9/A13  A9 <p>In case of FFB > 1250 two additional strikers are required</p> <p>In case of FFB > 1900 for additional strikers are required</p>	
	 2x ⑳	
	 1x ㉔  1x ㉕	
		
		

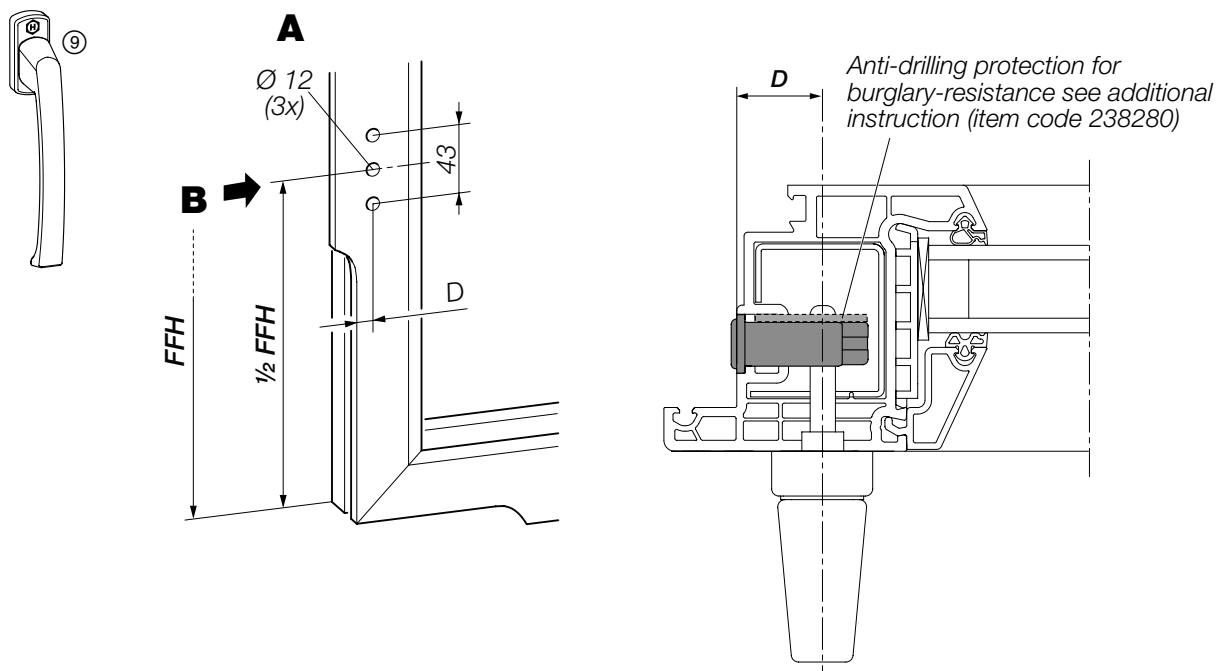
Fittings



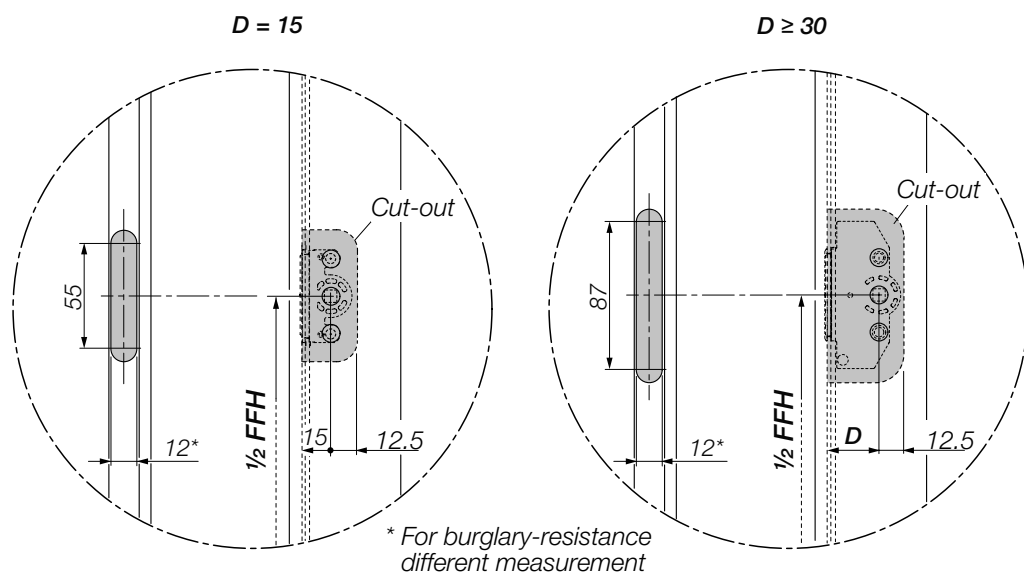
Sash preparation

Handle bores, milling for gear box

- A** Mark bore holes. Drill bore holes with $\varnothing 12$.
- B** Carry out milling for gear box (see detail).



Detail **B**



- B**



Cutting to size and installation of central locking axial spacing 9

Cutting tracks to size, installation of central locking (for HAUTAU central locking)

A Fix the corners OL/UR (19a) and OR/UL (19b) as shown below (see also fig. 1).

i Whether left or right version the positionen of corner are always the same.
They will NOT be mirrored or rotated.

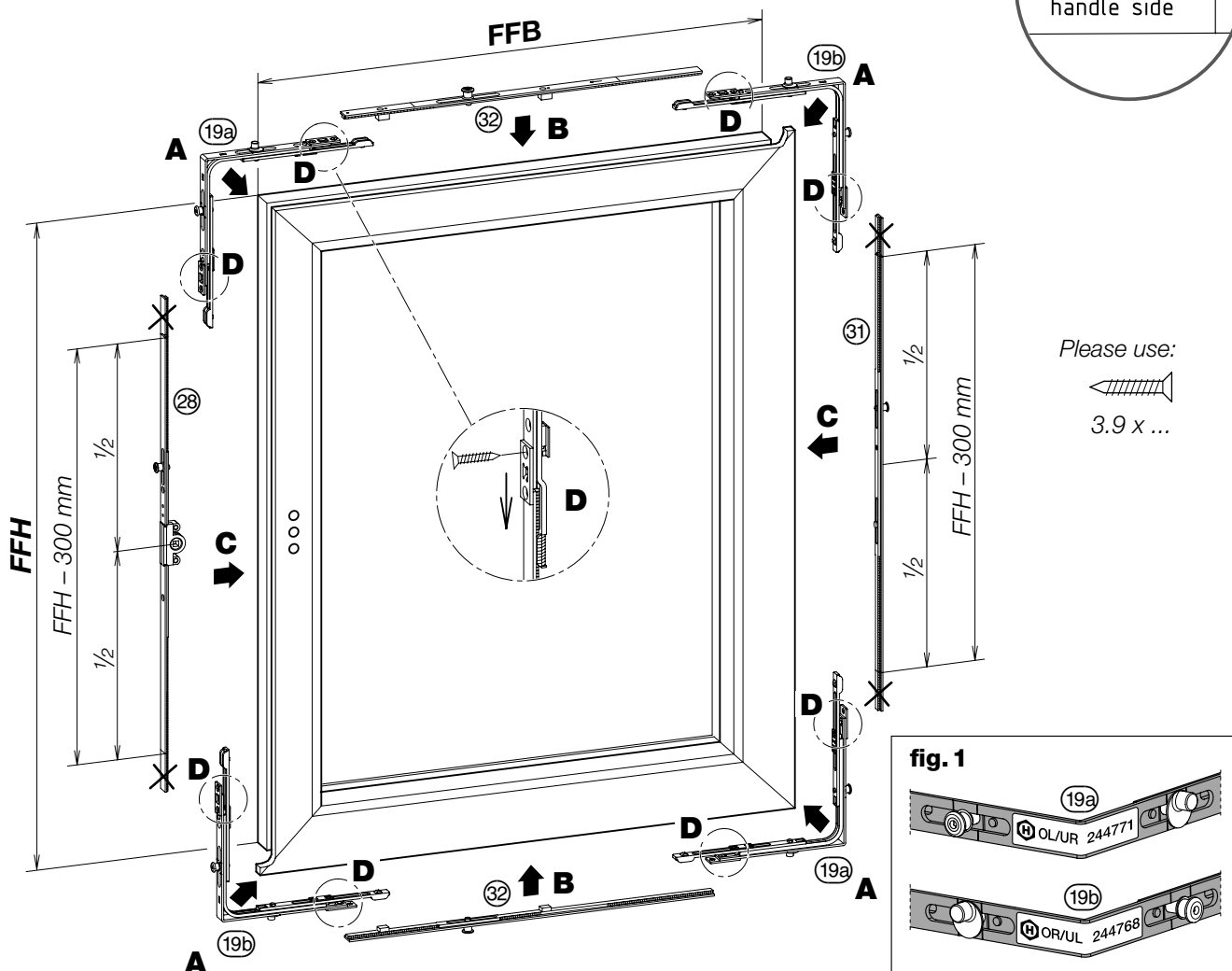
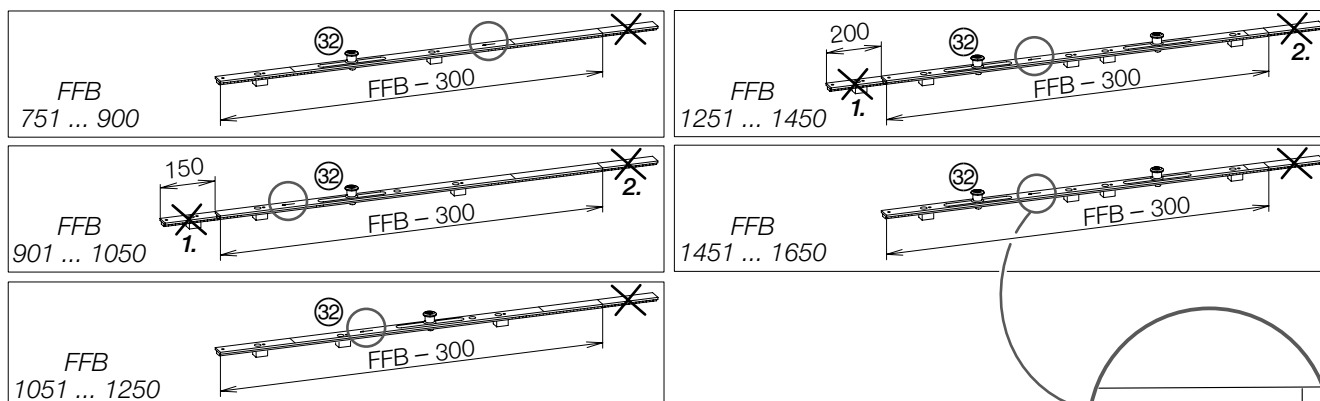
B Cut connecting track top (32) and connecting track bottom (32) and fix them by means of screws.

Info: For ranges of application form FFB 901 ... 1050 and 1251 ... 1450 at first shorten the tracks on the handle side. (Marking at 150 mm resp. 200 mm).

C Shorten and screw connecting track lateral (31) as well as espag EG (28).

D Move and fix adjustment system for connecting tracks at corners.

B



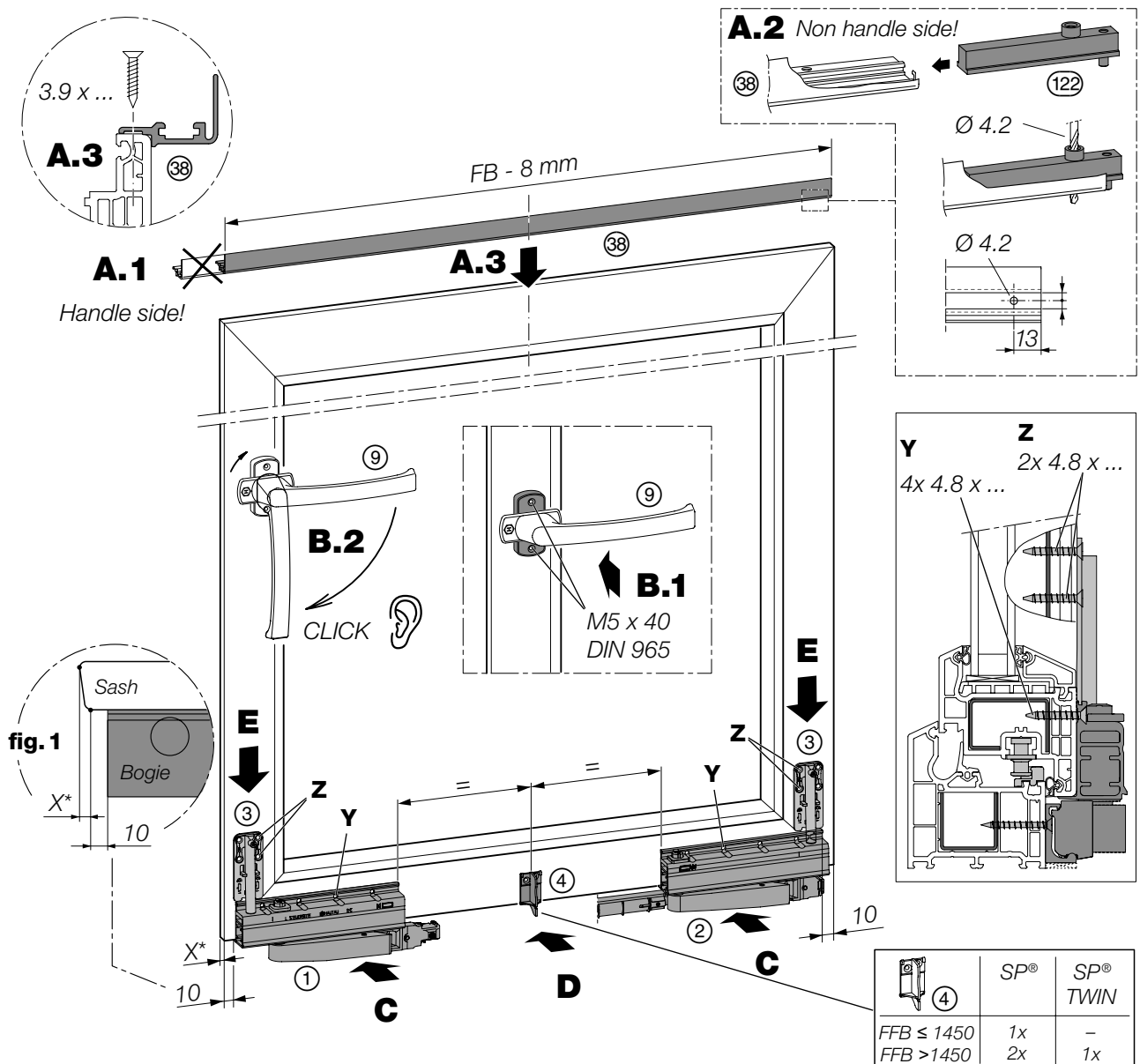
Mounting of stay connecting profile, handle and bogies

Mounting of stay connecting profile for stay systems, mounting of handle

- A (A.1)** Cut stay connecting profile ③⑧ from handle side to size, sash width minus 8 mm. **(A.2)** Stay connecting profile without hole (stock length) must be drilled at **non handle side** for fixation of the stay system (Jig ⑫⑫ Item-Code 243493 or refer to hole pattern). **(A.3)** Screw stay connecting profile centered to sash.
- B (B.1)** Mount handle ⑨ on sash at a position of 90°. Turn rosette and tighten handle with two screws M 5 x 40. Make sure that central locking can be easily moved. **(B.2)** Move back handle-rosette into home position.

Mounting of bogies

- C** Tighten bogie ①/② with four screws 4.8 x ... each at sash. Keep a lateral distance of 10 mm to outer sash edges and ensure flush positioning with bottom edge (see reference edge for profiles with edge radius in **(fig. 1)**). Screw length has to be chosen such as to ensure proper fastening in steel reinforcement (**Y**).
- D** Fix cover fillet support ④ with two screws 4.8 x ... in centre position between bogies. For FFB > 1450, arrange both cover fillet supports equally between bogies. For FFB < 900 (< 1450 for TWIN-model) **must not use** cover fillet supports.
- E** Insert and click support arms ③ into the profiles of the bogies and fasten with two screws 4.8 x ... each (see figure for screw bores). Screw length has to be chosen such as to ensure proper fastening in steel reinforcement (**Z**).

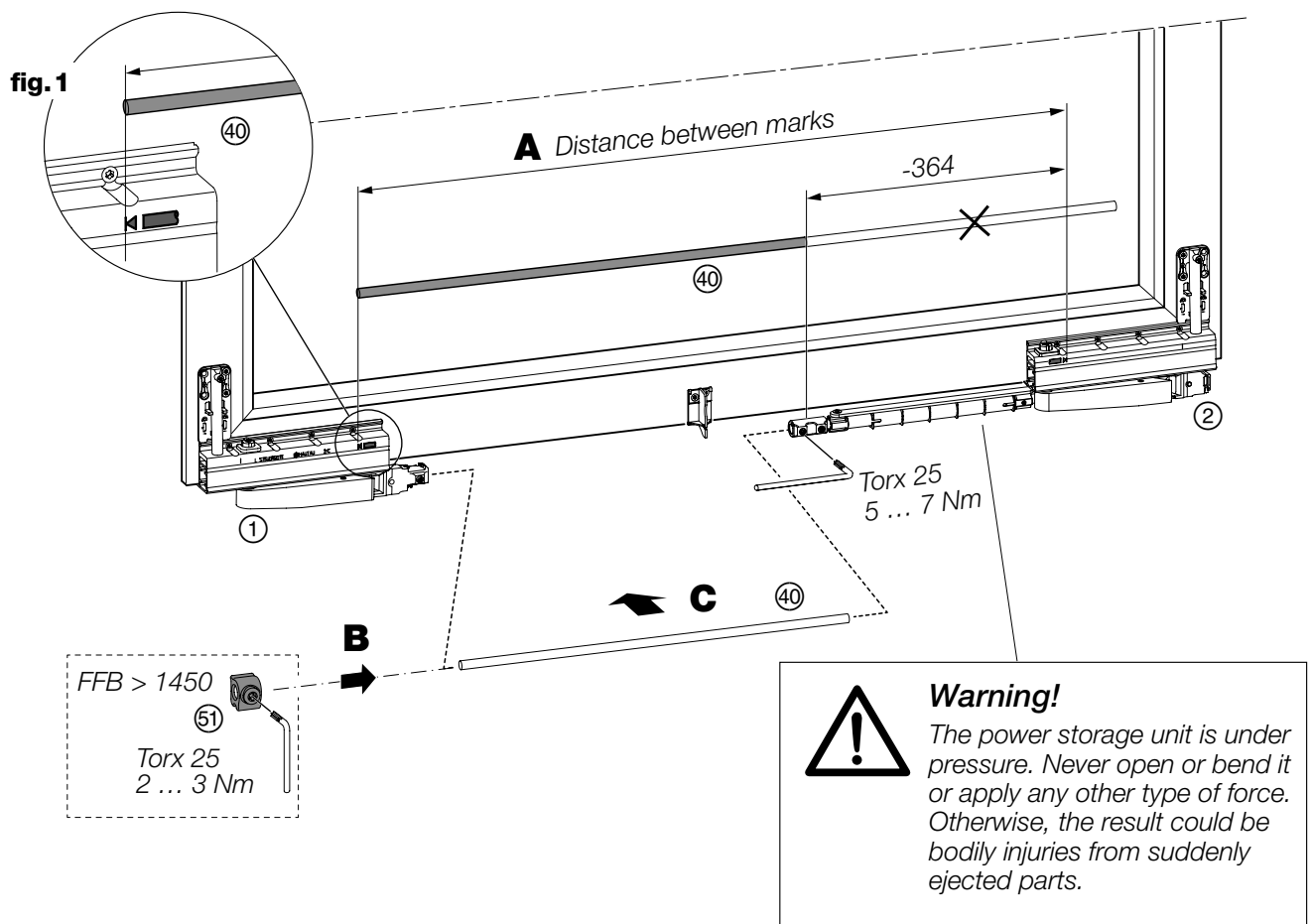


*) identification of X is necessary for later installation of guide block

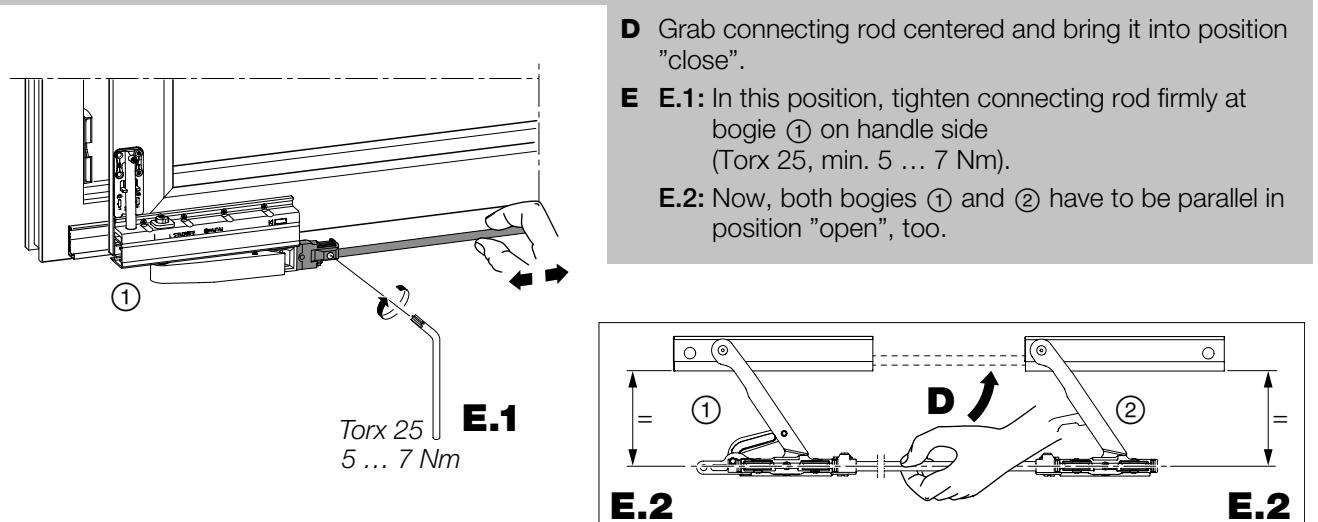
Mounting connecting rod, parallel alignment of bogies

Mounting connecting rod

- A** Cut connecting track ④① to size according to marks on bogies (**fig.1**) - 364 mm.
- B** For FFB > 1450: move support block ⑤① in centre position of connecting rod. Fasten (Torx 25, 2 ... 3 Nm).
- C** Insert connecting rod in couplings of bogies ① and ②. Tighten bogie ② on non-handle side with Torx 25, 5 ... 7 Nm).



Parallel alignment of bogies (to ensure uniform entry of sash into frame)




Mounting of strikers axial spacing 13

Mounting of strikers

Fix strikers (13)/(13b) according to chart.

Note: In case of PVC profiles: The system design does not allow for the strikers night vent (13b) (night vent position) to be flush with the frame. They protrude (fig.1). In case of timber profiles they be flush with the frame (fig.2)

To use: 
3.9 x ...

All measurements mentioned below are valid for 12 mm fittings cavity.

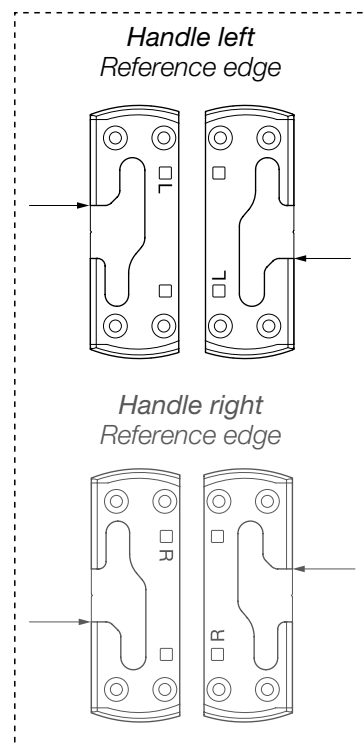
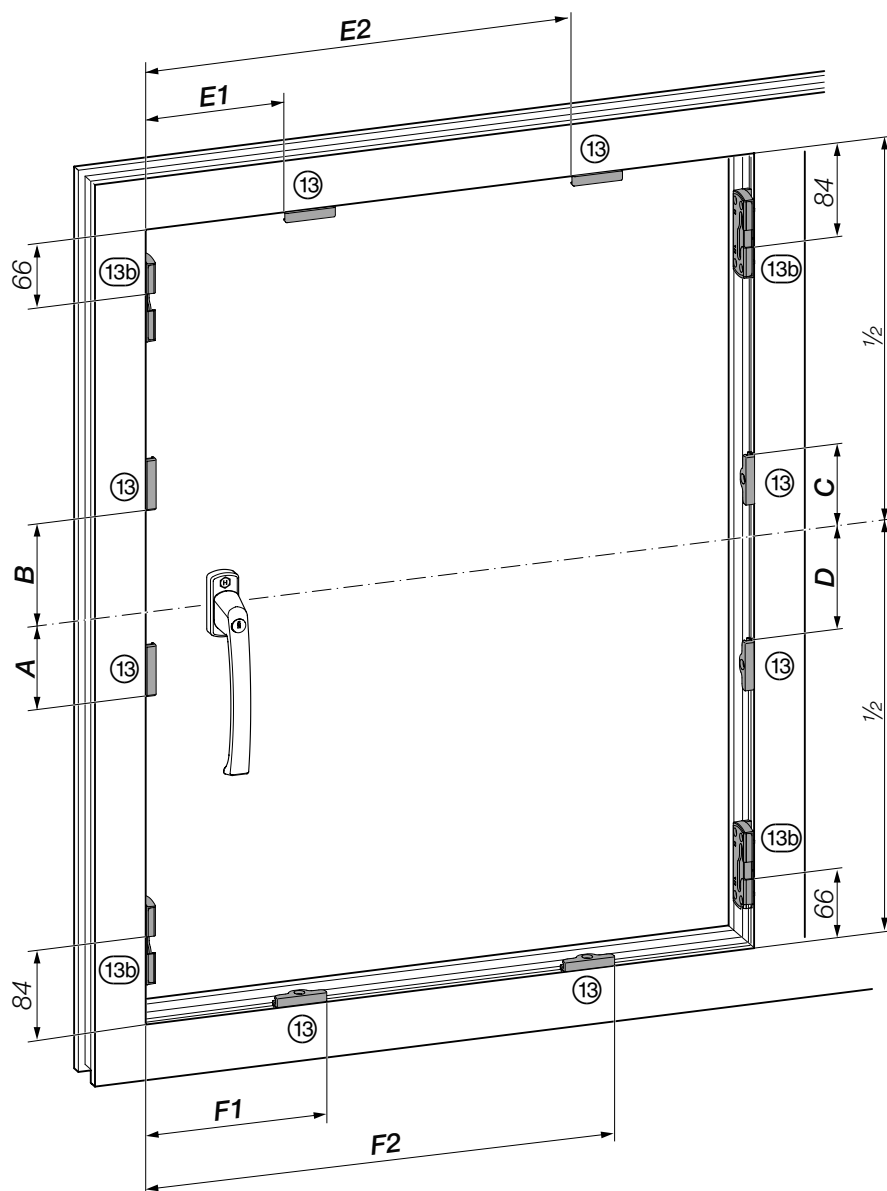


fig.1

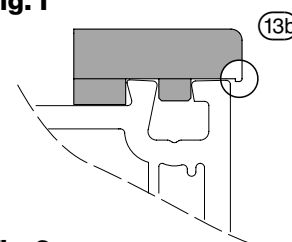
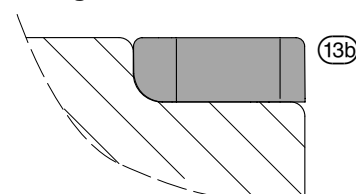


fig.2



FFH	A	B	C	D
650 ... 1100	90 ¹⁾	—	90 ¹⁾	—
1000 ... 1450	—	110 ²⁾	—	110 ²⁾
1451 ... 2350	309	341	309	341

¹⁾ for gear size 110

²⁾ for gear size 140

FFB	E1	E2	F1	F2
751 ... 900	412	—	393	—
901 ... 1050	504	—	485	—
1051 ... 1250	654	—	635	—
1251 ... 1450	304	904	285	885
1451 ... 1650	504	1104	485	1085


Mounting of strikers axial spacing 9

Mounting of strikers

Fix strikers (13)/(13b) according to chart.

Note:

In case of PVC profiles: The system design does not allow for the strikers night vent (13b) (night vent position) to be flush with the frame. They protrude (fig.1). In case of timber profiles they be flush with the frame (fig.2)

To use: 
3.9 x ...

All measurements mentioned below are valid for 12 mm fittings cavity.

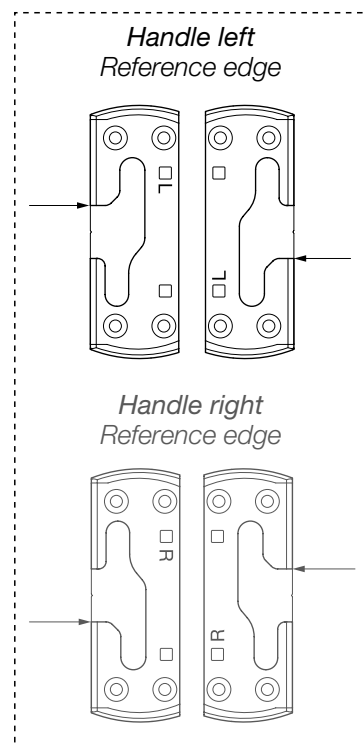
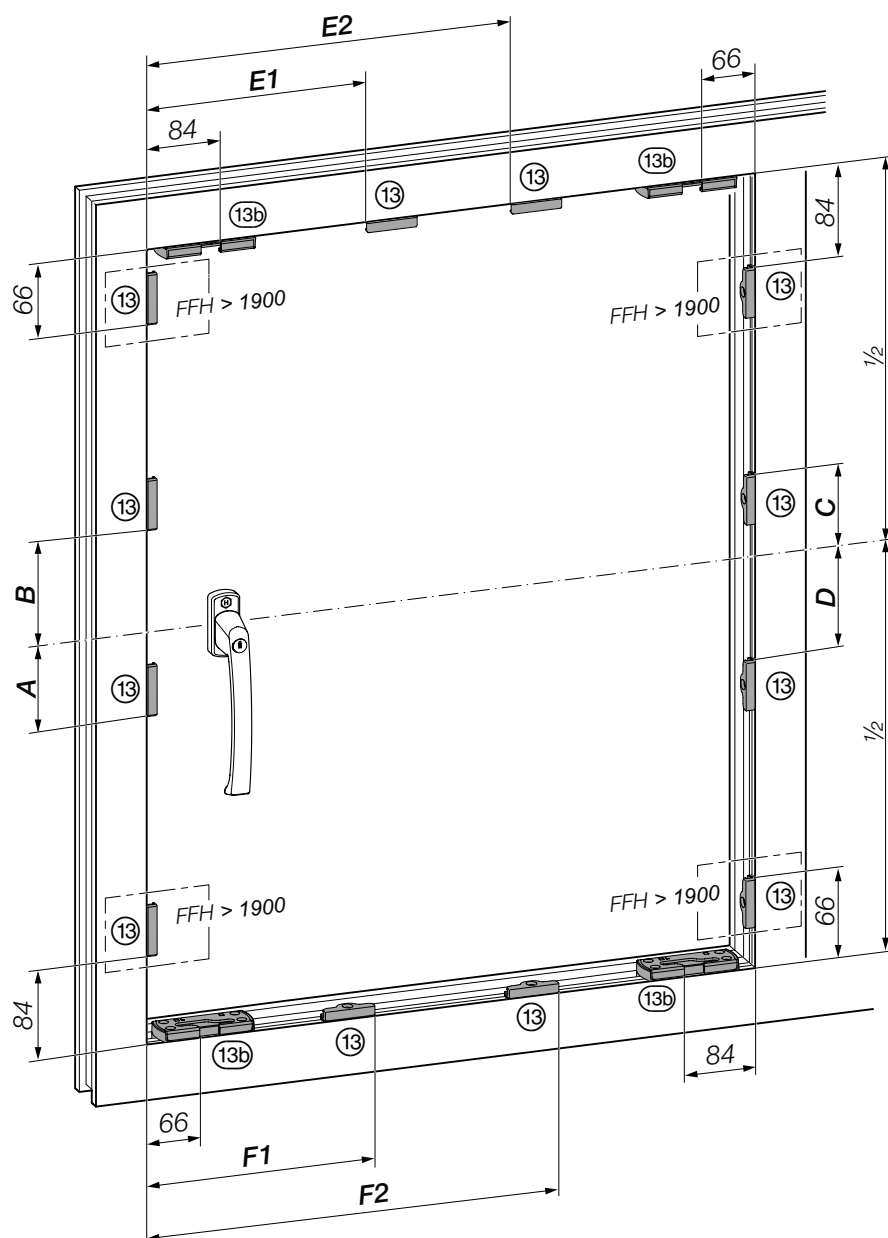


fig.1

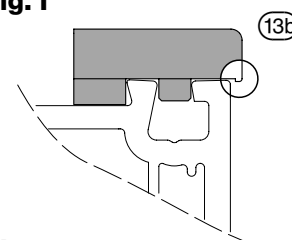
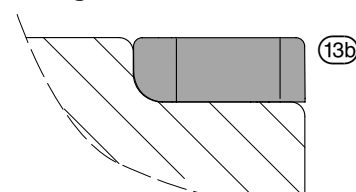


fig.2



FFH	A	B	C	D
650 ... 1100	90 ¹⁾	—	90 ¹⁾	—
1000 ... 1450	—	110 ²⁾	—	110 ²⁾
1451 ... 2350	309	341	309	341

¹⁾ for gear size 110

²⁾ for gear size 140

FFB	E1	E2	F1	F2
751 ... 900	412	—	393	—
901 ... 1050	504	—	485	—
1051 ... 1250	654	—	635	—
1251 ... 1450	304	904	285	885
1451 ... 1650	504	1104	485	1085

Mounting of guide track, bottom track and stay system

Mounting guide track to frame

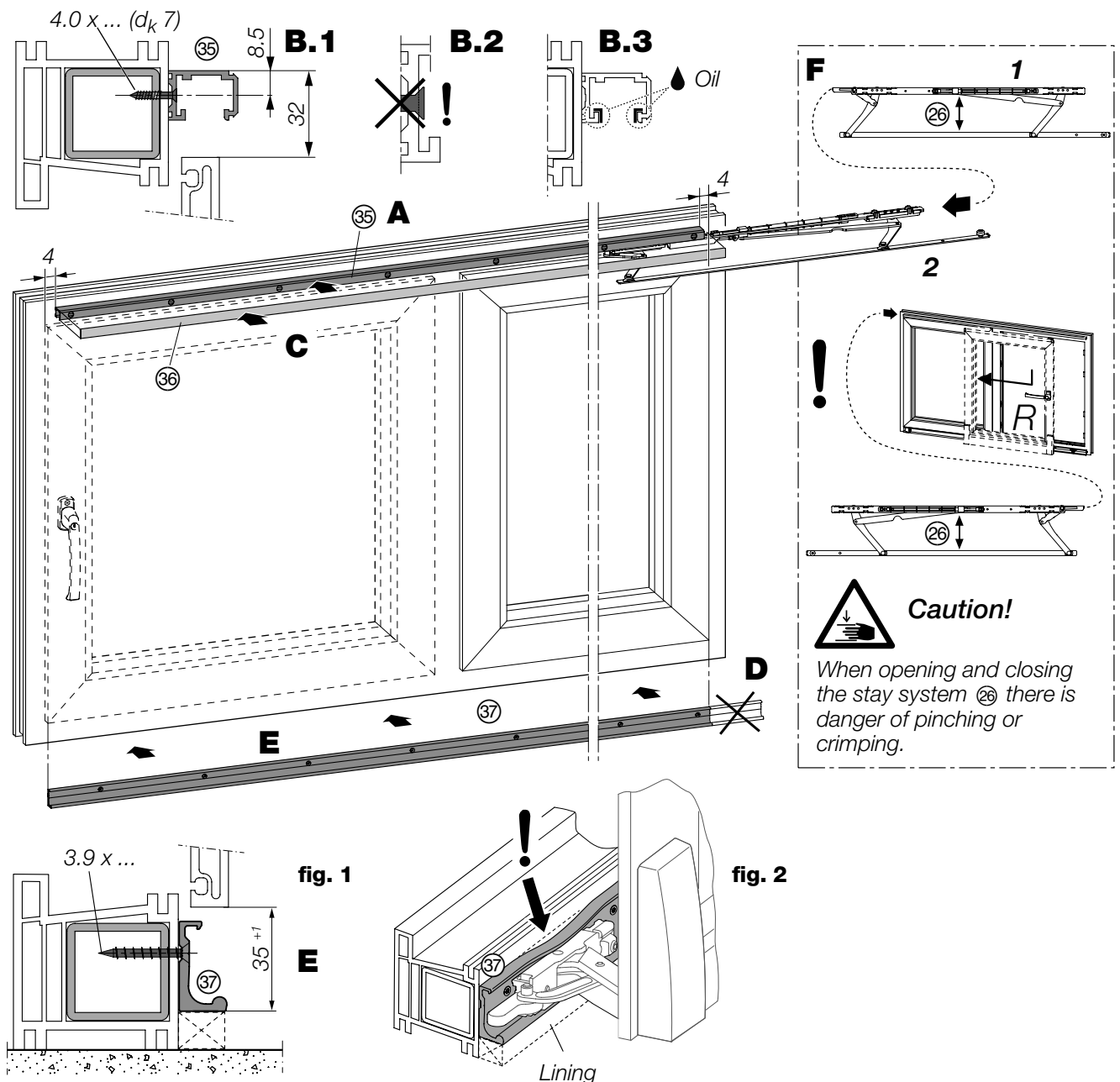
- A** Shorten guide track ③⑤: distance between outer edges of sliding sash and fixed sash minus 8 mm.
- B** Tighten guide track with screws 4.0 x (d_k 7) as shown **(B.1)**.
Make sure that the screw heads do not protrude, since this can result in material damage! **(B.2)**.
Oil the sliding surfaces along the entire length of the guiding rails **(B.3)**.
- C** Shorten cover profile ③⑥ according to size of guide track and clip on guide track.

Mounting bottom track to frame

- D** Shorten bottom track ③⑦ until it is flush with outer corners of sliding sash and fixed sash.
- E** Fix bottom track at frame at a distance of 35^{+1} mm from bottom edge of bottom track to bottom edge of sash. Use screws 3.9 x ... **(fig. 1)**. In case of FG > 160 kg, visible deformation or unusual (well audible) noise in the area of bottom track, provide continuous lining (on site) at bottom track for load transfer **(fig. 2)**.

Mounting of stay system in guide track

- F** Open stay system ②⑥ **(1)** and push it into guide track as illustrated **(2)**.



Hanging sash


Installing sash onto guide track

- A** Bring handle in slide position. Lift sash slightly in oblique position and place it together with bogie rollers on front edge of guide track ③⑦ (fig.1). Check position of rolls by sliding the sash and adjust, if necessary.

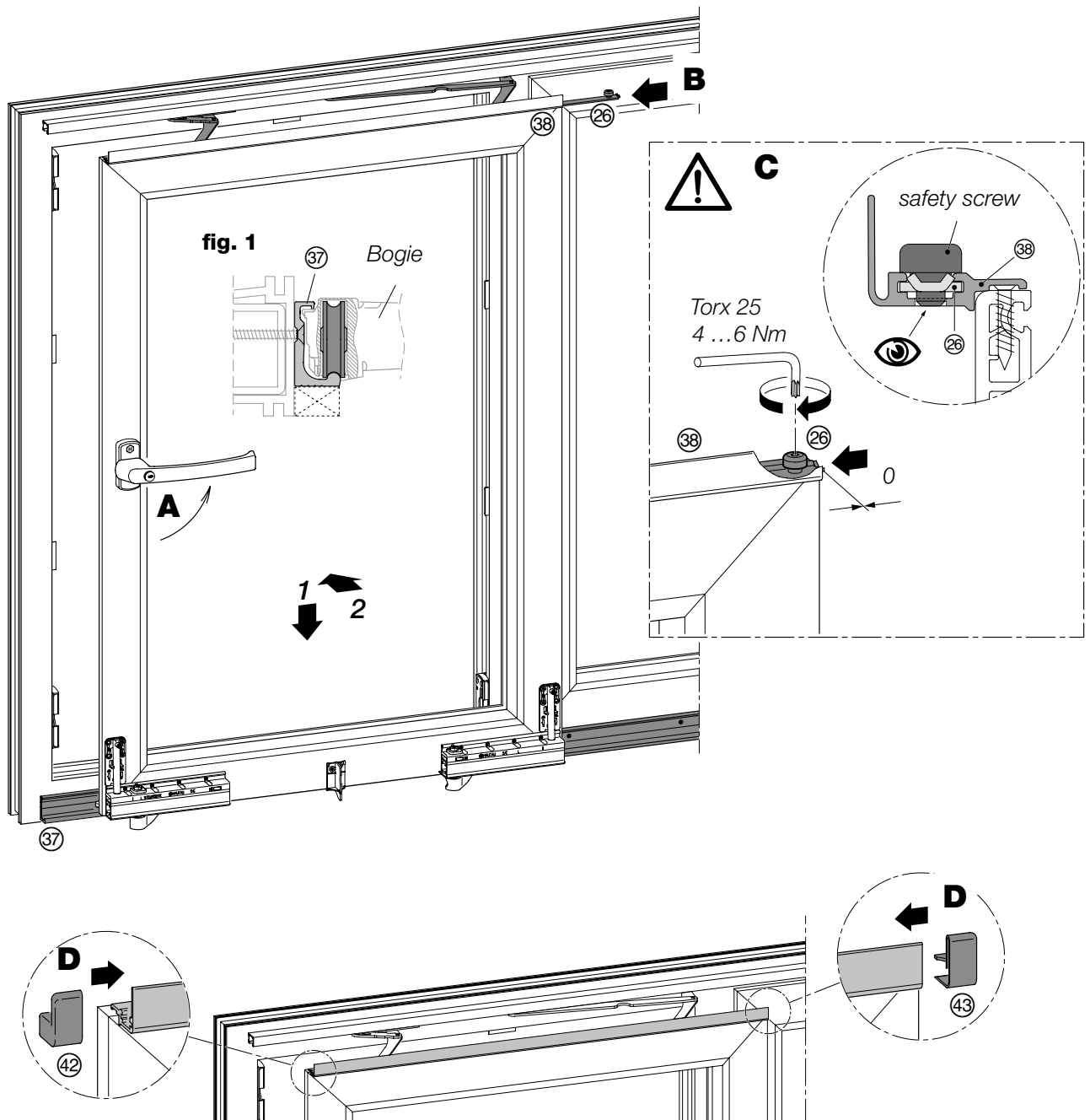
Connecting sash with guide track

- B** Push stay system ②⑥ into stay connecting profile ③⑧.

- C** Put sliding track in flush position with sash border and tighten safety screw (Torx 25; min. 4 ... 6 Nm).

 **Warning:** The safety screw **must be positive fitted** into the hole of the stay connecting profile ③⑧. If you could not see the screw, the sash is not sufficiently secured. Severe injuries could be the consequence.

- D** Attach cover caps left ④② and right ④③ on ends of stay connecting profile.

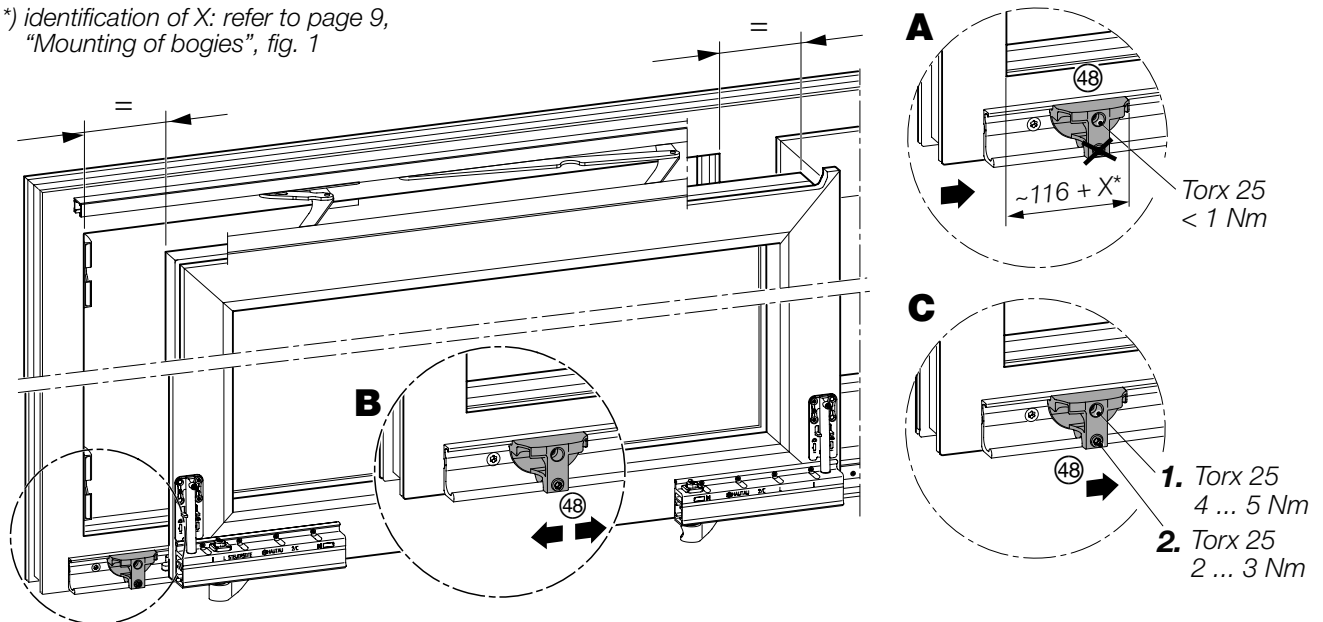


Installation of guide blocks

Installation of guide block, bottom

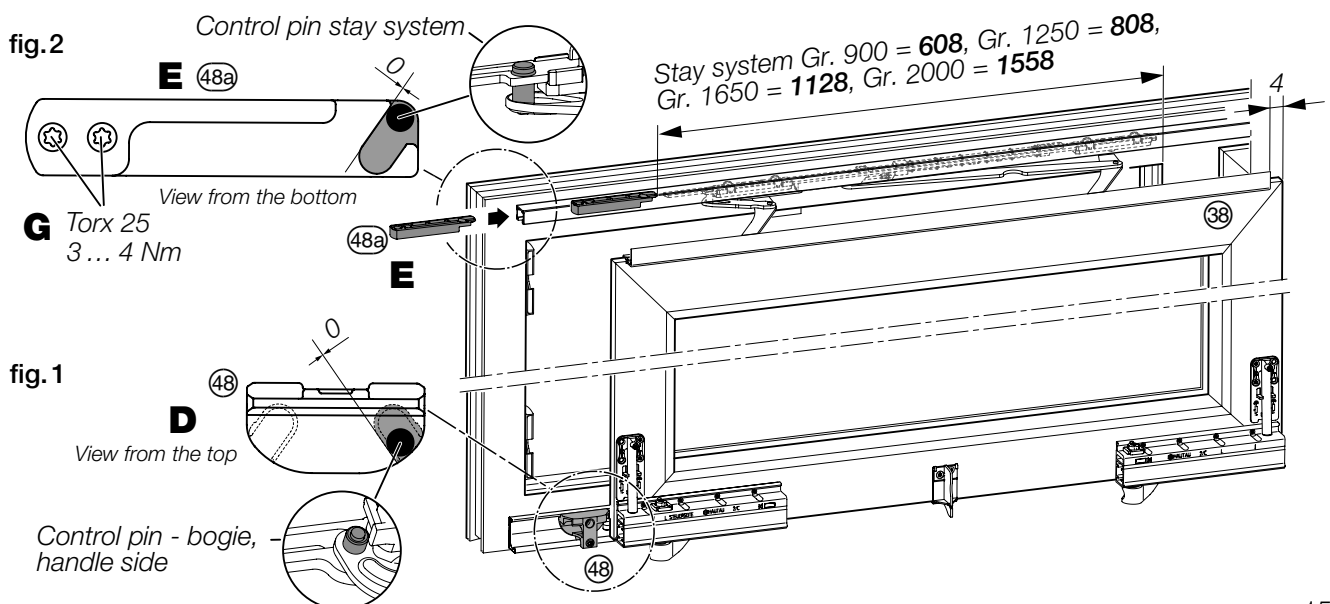
- A** Set guide block ④⑧ on handle side at a distance of approx. 116 mm + X* from outer edge of bottom track. At first tighten it slightly with the upper screw (Torx 25, max. 1 Nm).
- B** Put sash in slide position and check fittings cavity on both sides (12 mm). Reset guide block, if necessary.
- C**
 1. Tighten upper screw firmly at guide block (Torx 25, 4 ... 5 Nm).
 2. Then tighten bottom screw (Torx 25, 2 ... 3 Nm).

*) identification of X: refer to page 9, "Mounting of bogies", fig. 1



Installation of guide block, top (to parallel running of the sash into the frame)

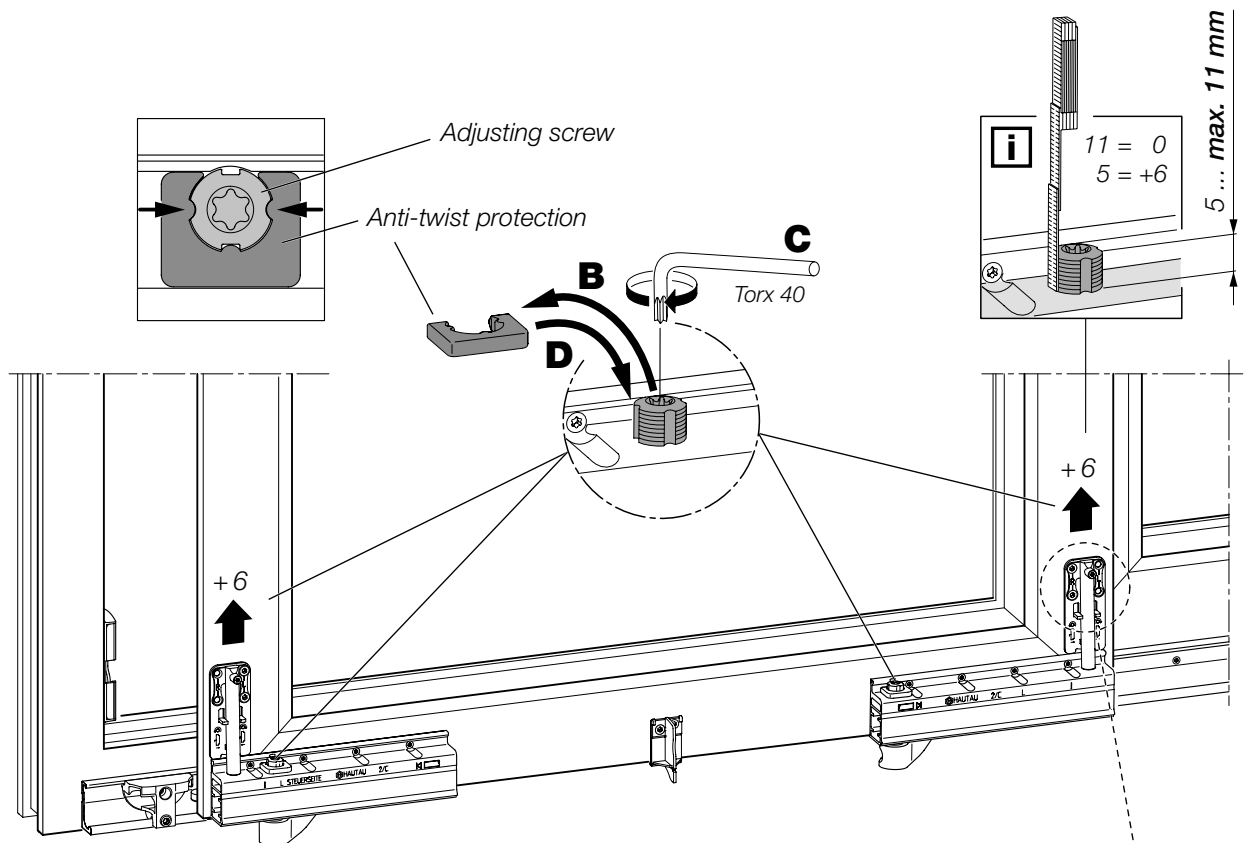
- D** Slide the sash towards the guide block, bottom ④⑧ as shown in **fig. 1** until the control pin of the 'master bogie' ① (on handle side) is in contact with the entry curve, but is NOT yet sliding in.
- E** Slide the guide block, top ④⑧a, into the track until it reaches the control pin of the stay system (**fig. 2**). Slightly tighten the screws (Torx 25) of the guide block.
- F** Put sash in "closed position" and check fittings cavity on both sides (12 mm). Reset guide block, if necessary (no illustration).
- G** Tighten both screws of the guide block firmly (Torx 25, 3 ... 4 Nm). **Another option** is to measure the position of the guide block, top ④⑧a. See dimensioning shown in the illustration. The dimensions are based on a fittings cavity of 12 mm, a sash rebate width of 20 mm and a correctly positioned stay connecting profile ③⑧ (4 mm of the sash rebate width).



Horizontal sash alignment, alignment of support arms

Horizontal sash alignment

- A** Check fittings cavity top and bottom on both sides (not shown).
- B** Remove anti-twist protections.
- C** Lift bogies (Torx 40) by means of adjusting screws in order to align sash.
Note: If the height of the bogies is set to different levels, the guide block stay system (48a) must be realigned (see page 15). The adjusting screws are allowed to be turned out **max. 11 mm**.
- ⚠ Attention:** If the adjusting screws are turned out more than 11 mm, the bogies will be destroyed.
- D** Put anti-twist protections on adjusting screws; at first, correct orientation of adjusting screws, if necessary.
- i** If the bogies are unevenly adjusted, the guide block top must be repositioned (see page 14).

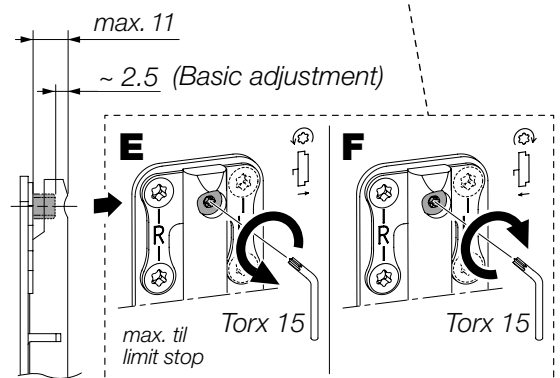


Alignment of support arms

(to achieve optimum for easy sash entry into frame)

- E** To ease entry of sash.
- F** To ease opening of sash.

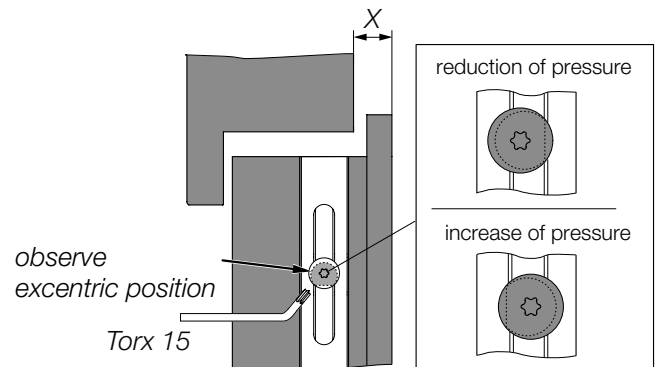
i Important note: Both support arms have to be adjusted in the same way in direction **E** only (coming from basic adjustment). If adjustment in direction **E** is too heavy, depending on profile and sash weight, dragging bogies may occur. In this case drive the screw back acc. **F**, until the bogies run correct.



Setting of sash closing pressure, buffer installation

Setting of sash closing pressure (overbate height)

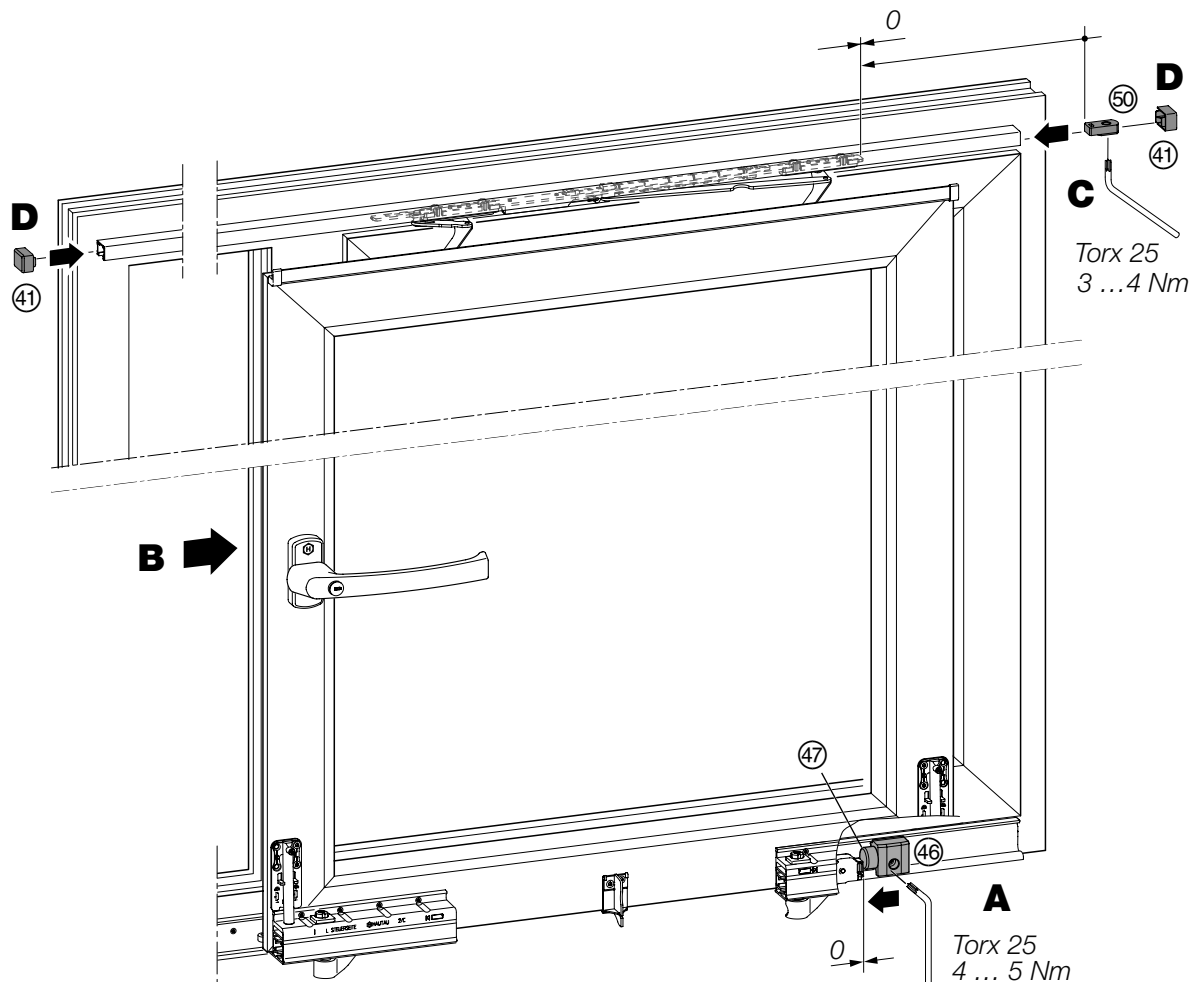
Check closing behaviour of sash.
Set of sash closing pressure: adjust overbate height (X) by means of Torx 15.



Installation of buffers

- A** Screw bottom buffer ④⑥ with attached rubber part ④⑦ in required position at bottom track (Torx 25, 4 ... 5 Nm).
- B** Move sash right to buffer.
- C** Insert top buffer ⑤① into guide track (until stay system) and tighten it firmly (Torx 25, 3 ... 4 Nm).
- D** Attach cover caps ④① on ends of guide track.

i Important information: If the window sash does not run simultaneously to upper and lower end stop, material damages can be the consequence.



Bogie safety device, cover installation

Activate bogie safety device

A Move bogie safety device (1) of both bogies backwards until they engage in position as shown (2).

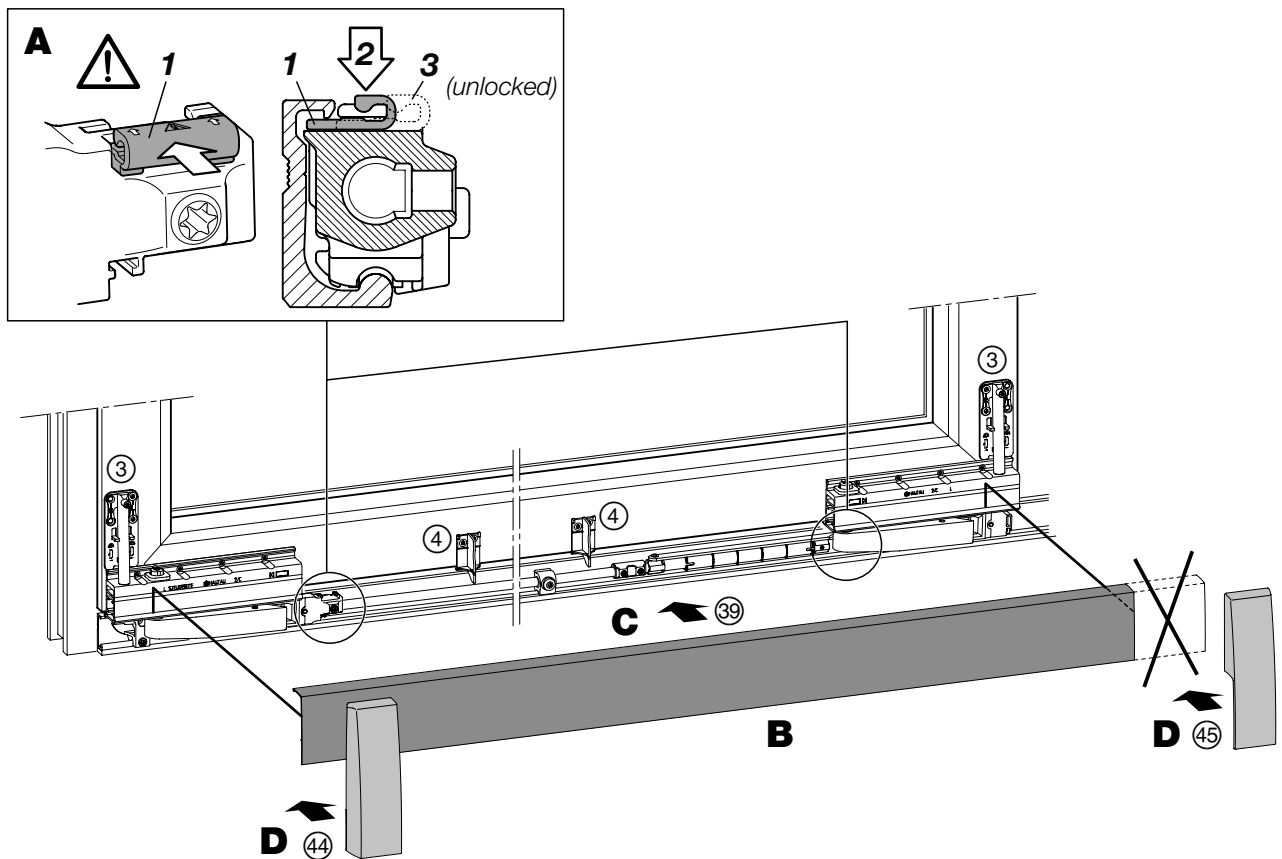
 **Warning:** If the bogie safety device has not locked correctly or not locked at all in position (2) as shown, the sash is not sufficiently secured (3). Severe injuries could be the consequence.

Assemble covers for bogies

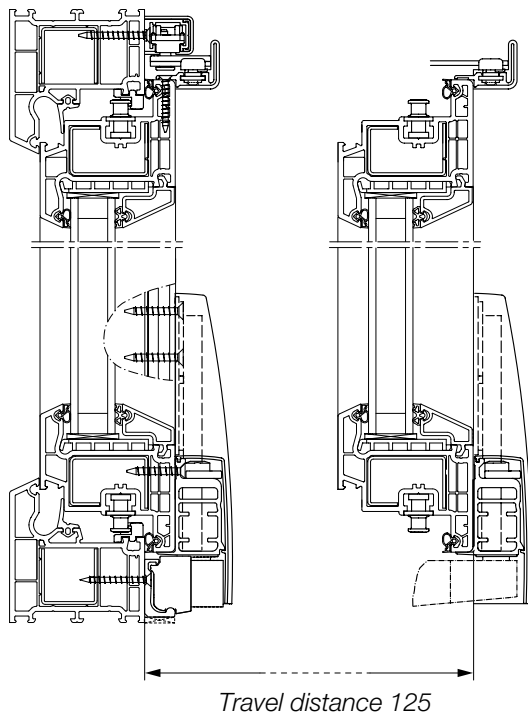
B Cut cover profile 39 to size according to bogie marks.

C Align cover profile according to bogie marks and clip on the bogie-profiles as well as on the cover fillet support(s) (4).

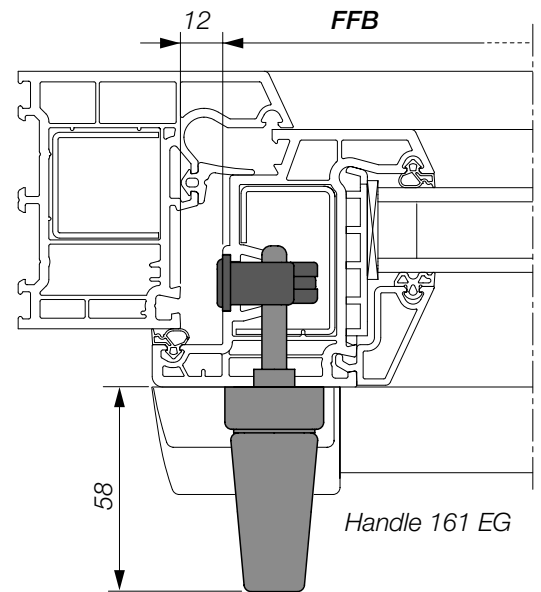
D Clip cover cap down left (44) and cover cap down right (45) to cover fillet supports (3).



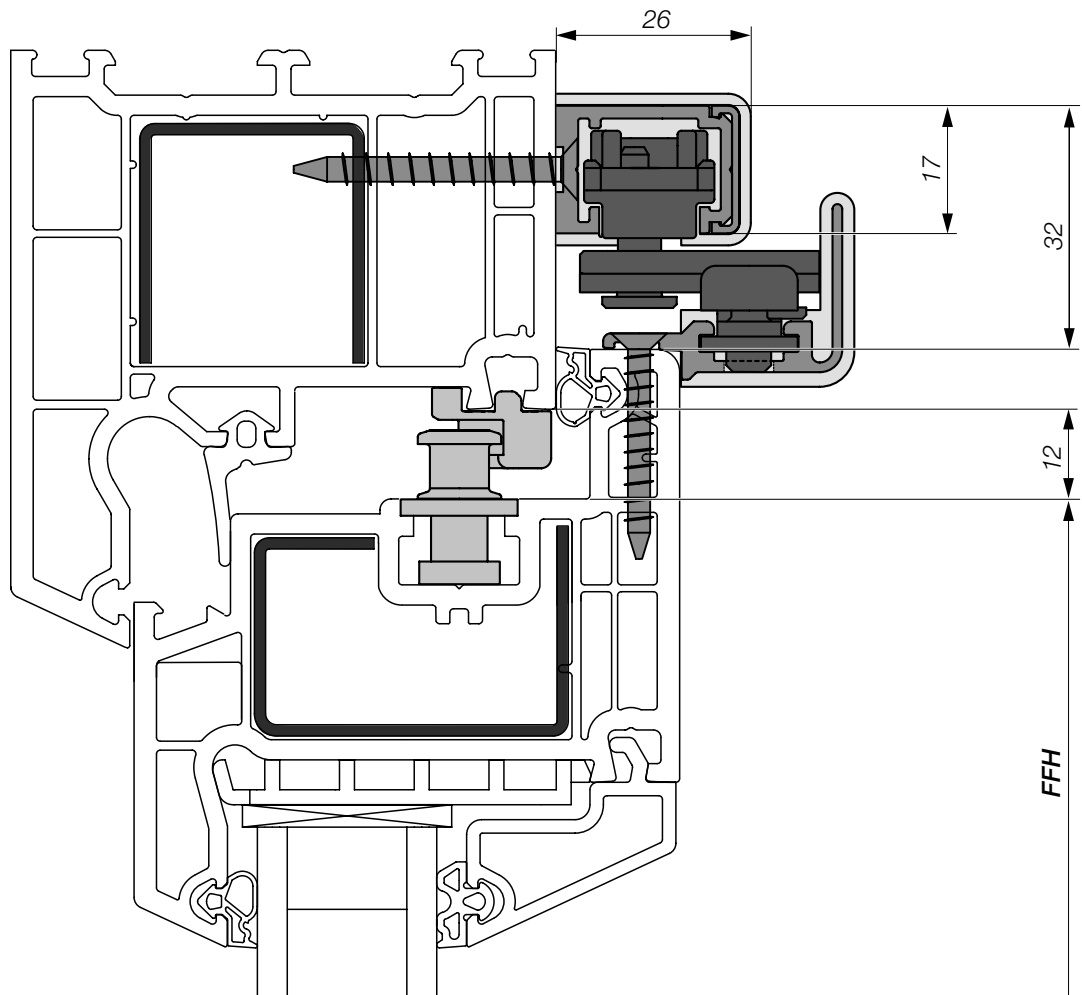
Vertical section top, horizontal section handle EG



Horizontal section handle EG



Vertical section top
Scale 1:1



Vertical section bottom

Scale 1:1

