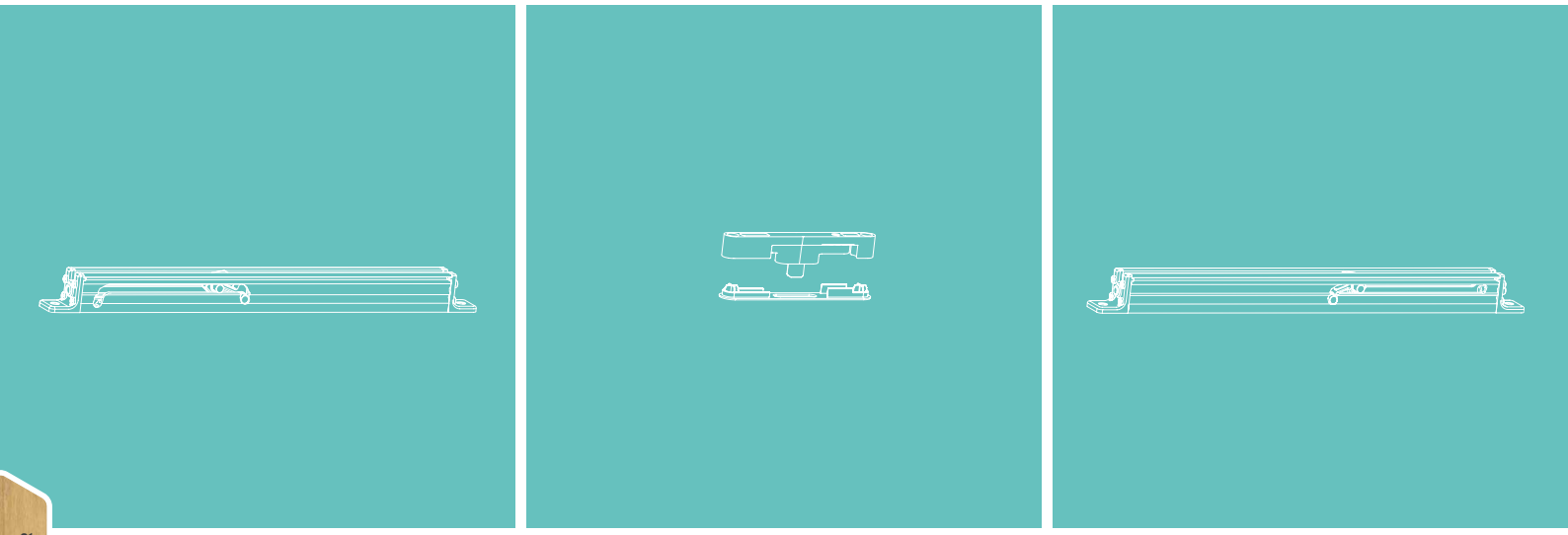
TECHNOLOGY IN MOTION

MACO RAIL-SYSTEMS

SLIDING HARDWARE



TIMBER

ASSEMBLY INSTRUCTIONS

HS COMFORT CLOSE / COMFORT STOP
concealed
Timber, Guide Track universal low

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Important instructions

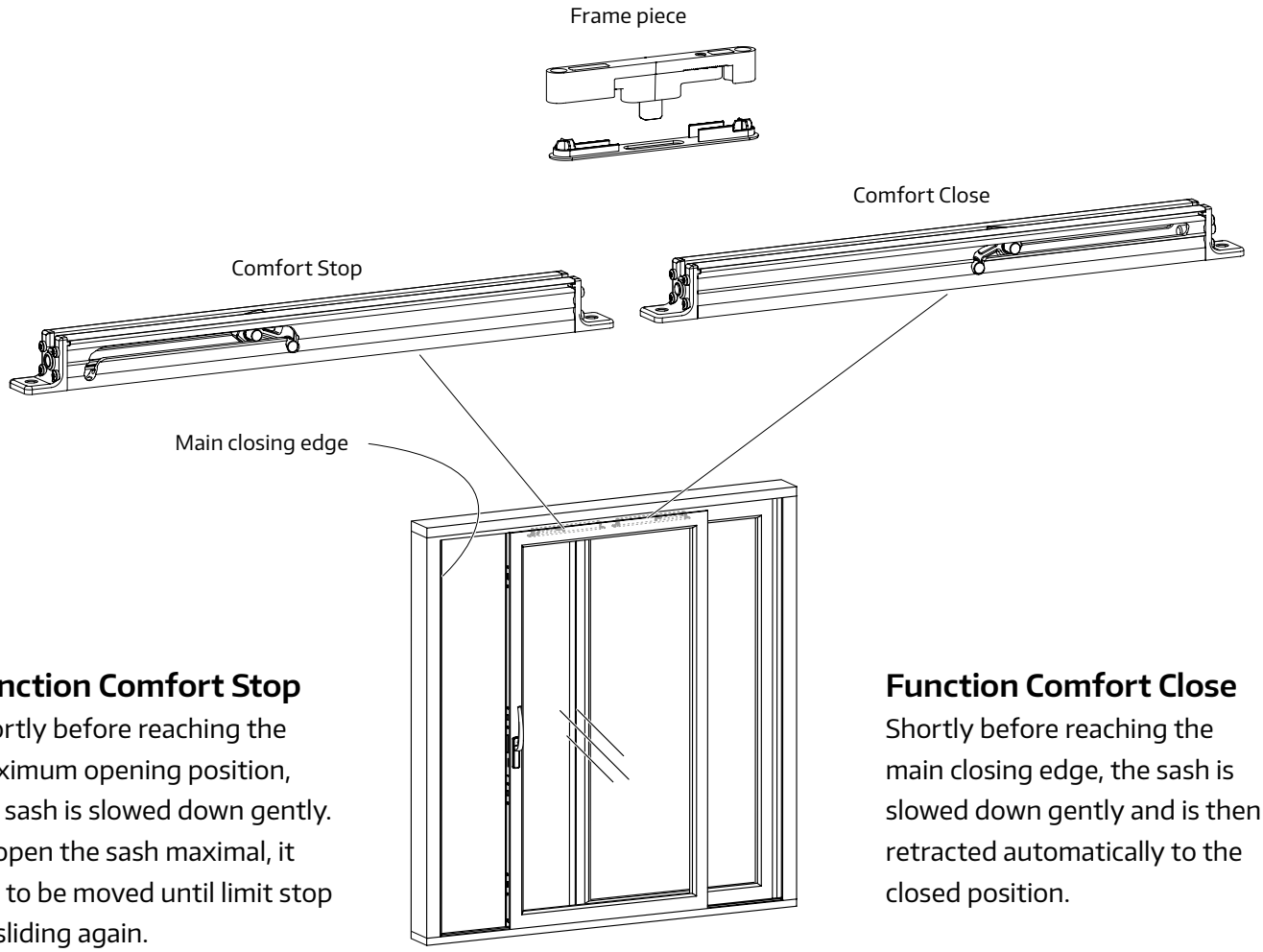
Target group

This documentation is intended exclusively for specialist companies and certified specialists. The work described herein must only be carried out by certified specialists.

Usage and safety information

In addition to this information, the profile-dependent assembly instructions for HS-Hardware System A, C, G, K Timber, Order No. 757077EN, must be complied with. In the Comfort Close assembly instructions, only the differences from the above document are described. Mount all hardware parts professionally as described in this manual and observe all safety instructions.
The HS Comfort Close may only be used in combination with gasket tracks – HS Set or Upper HS gasket track in PVC for slim cross-bars.

Function



Function Comfort Stop

Shortly before reaching the maximum opening position, the sash is slowed down gently. To open the sash maximal, it has to be moved until limit stop by sliding again.

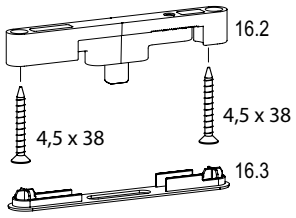
Function Comfort Close

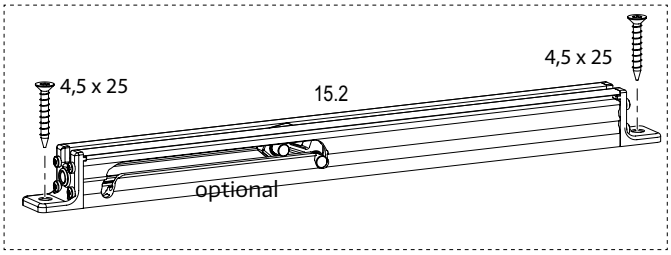
Shortly before reaching the main closing edge, the sash is slowed down gently and is then retracted automatically to the closed position.

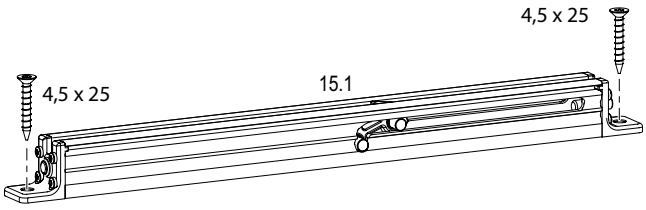
Fittings overview

Pos.	Description
6.1	Guide Track
15.1	Comfort Cose
15.2	Comfort Stop
16.2	Frame piece
16.3	Cover frame piece

Note: All measurements in this document are indicated in millimetres.

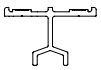






required for mounting:
guide track

6.1



Guide track universal low

Screws are not included in scope of delivery. Respective specifications represent a recommendation, only.

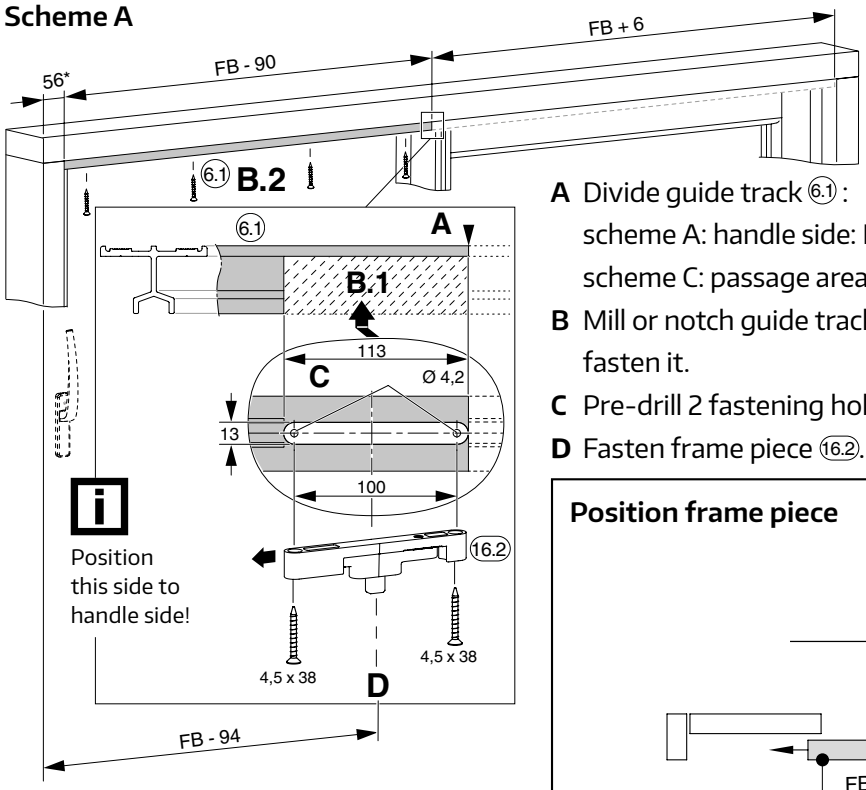
Items per sliding sash

	Article description				Item Code
1	**Comfort Close** 15.1 z)	size 1	**≤ 200 kg**	**sash weight**	300359
			≤ 30 N	**sliding force**	
		size 2	**> 200 ... 300 kg**	**sash weight**	300360
			≤ 50 N	**sliding force**	
1x)	**Comfort Stop** 15.2 z)	size 1	**≤ 200 kg**	**sash weight**	304052
			≤ 30 N	**sliding force**	
		size 2	**> 200 ... 300 kg**	**sash weight**	304053
			≤ 50 N	**sliding force**	
1	**Frame piece, adjustable** 16.2				305134
1	**Cover frame piece** 16.3				304816

x) optional z) Colour of damper: size 1 - black, size 2 - silver-grey

Preparation frame - Example: scheme A and C

Scheme A



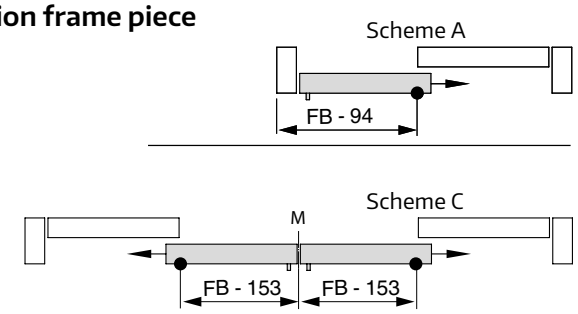
A Divide guide track (6.1):
scheme A: handle side: FB - 90 mm, fixed sash side: FB + 6.
scheme C: passage area: 2.FB - 194, fixed sash: FB + 11.

B Mill or notch guide track on handle side for frame piece and fasten it.

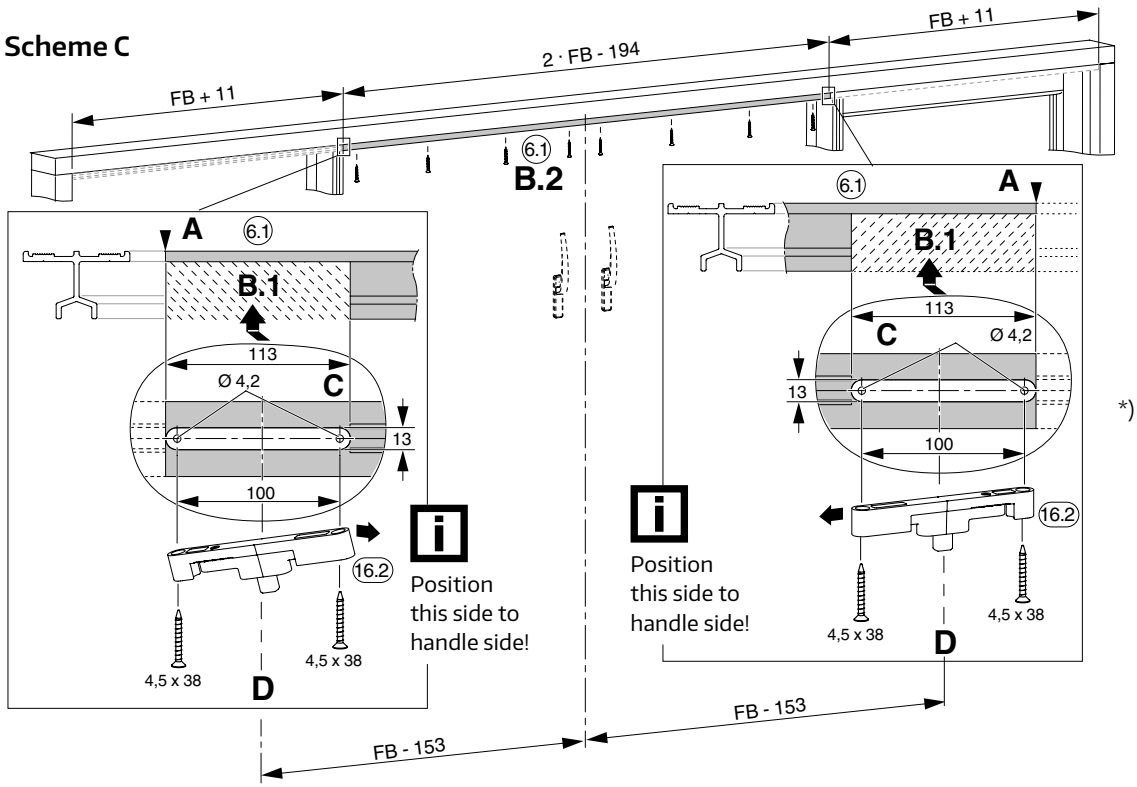
C Pre-drill 2 fastening holes Ø 4.2.

D Fasten frame piece (16.2).

Position frame piece



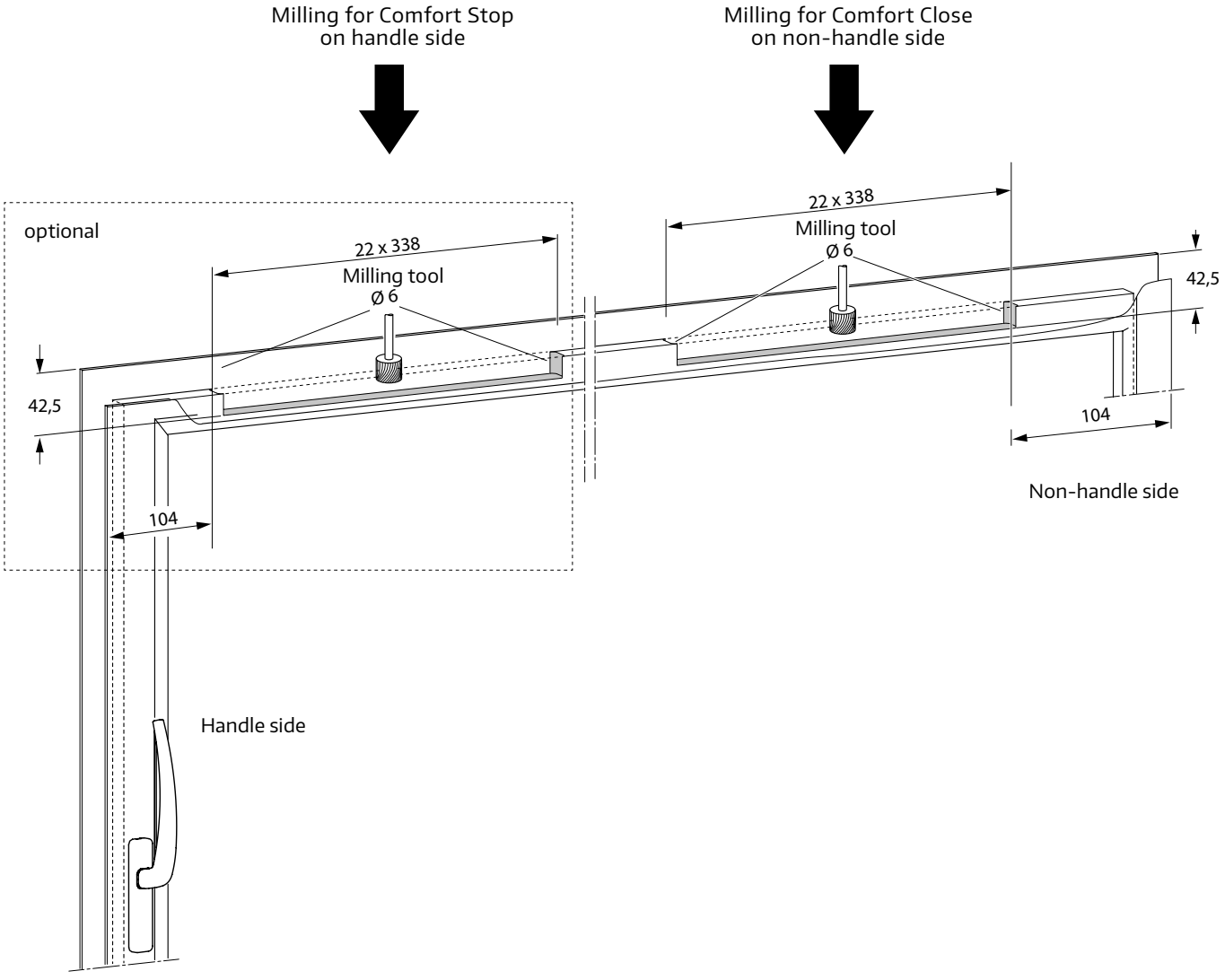
Scheme C



*) based on 56 frame; in case of deviation, please contact MACO.

Preparation sash

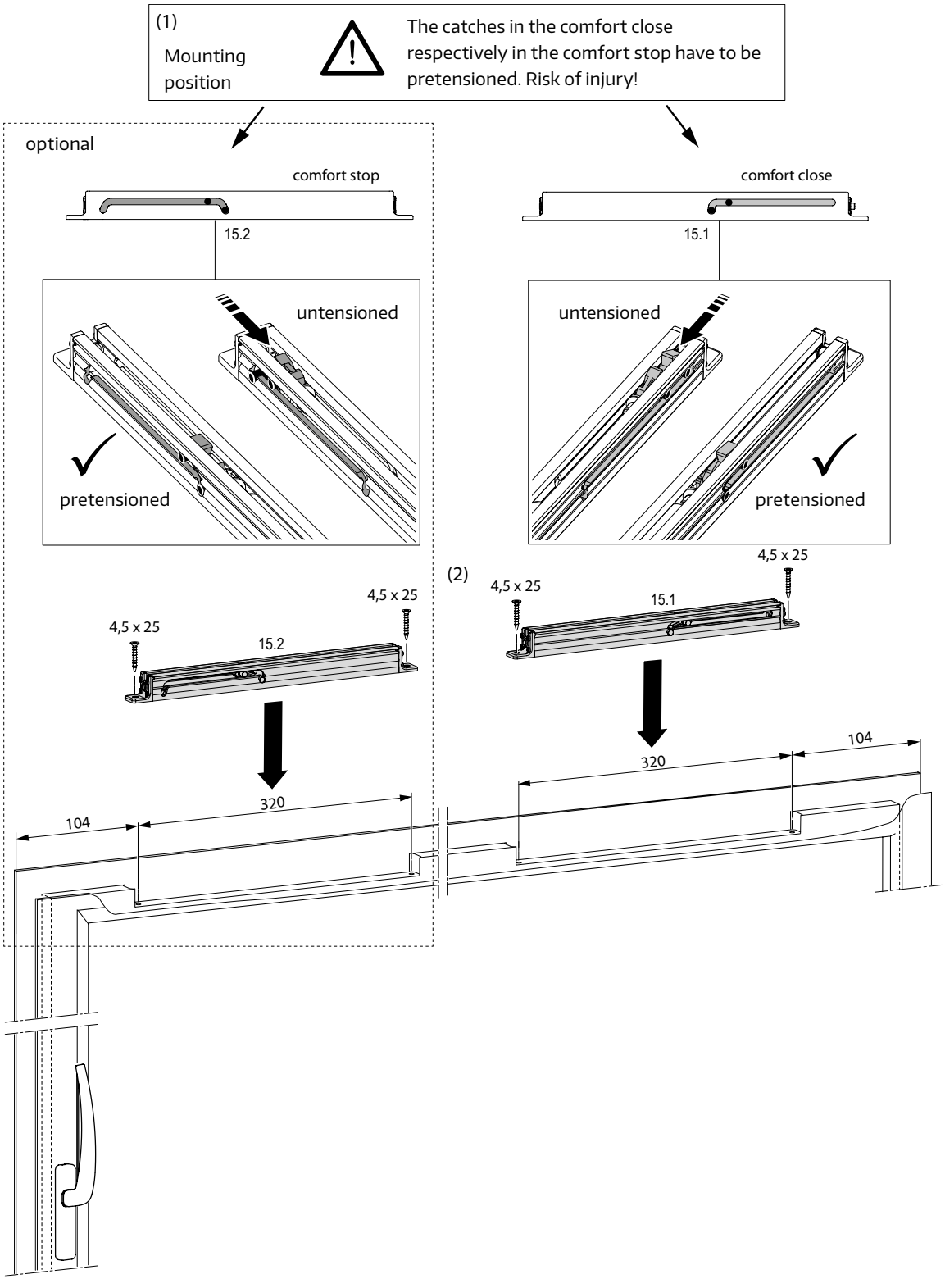
› Carry out sash milling for Comfort Close on non-handle side and/or for Comfort Stop on handle side.



Mounting Comfort Close/Comfort Stop

› (1) Comfort Close respectively Comfort Stop has to be pretensioned.

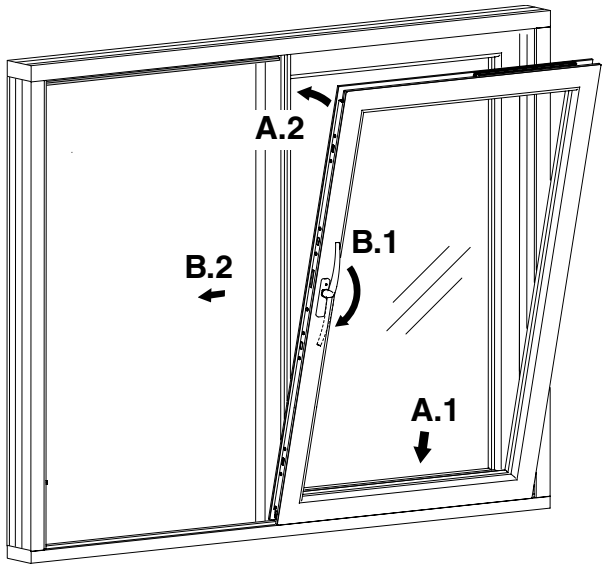
› (2) Mount the Comfort Close respectively Comfort Stop with 2 screws 4,5 x 25 each at the sash.



Mounting sash and frame

Attention: Risk of injury due to fallen sash! To avoid the risk of injury, perform the following steps with two workers.

A Set down the sliding sash onto the running track in the area of the fixed sash and swivel it into the element.
B Bring handle into „Open“ position and slide the sliding sash to the transit area.



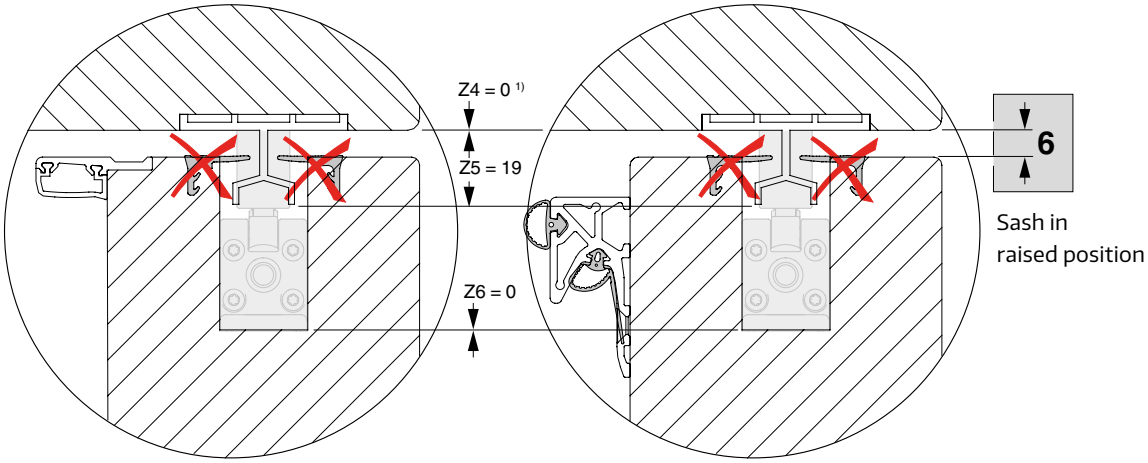
Reference dimension

› To check the height of the frame piece, swivel in the sash, lift it and slide into closing position.

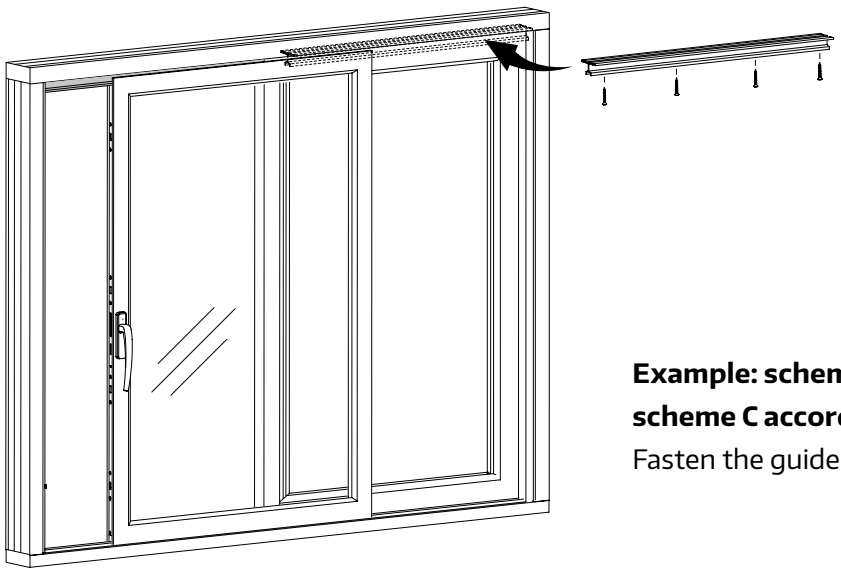
› Measure reference dimension within the range of the Comfort Close (desired value = 6 mm).

› If necessary, push the sash to one side and adjust the frame part to compensate for the difference to the control dimension (see "Adjustment options").

› Fasten guide track on fixed sash side.



Completion of guide track



Example: scheme A;
scheme C accordingly
Fasten the guide track at frame profile.

Adjustment options

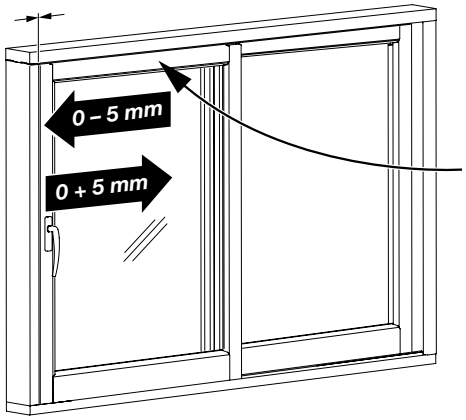
In case of inaccuracy concerning position of the frame piece, the reference dimension concerning the height of the frame piece and the end position of the sash related to the frame can be adjusted.
To do this, the sash has to be opened.

› (1) Correction of the lateral position (+/- 5 mm):
(1.1) Loosen screw by means of Torx 25,
(1.2) Slide frame piece into the desired direction:
0 – 5 mm: closing of sash will be shifted in direction of handle side;
0 + 5 mm: closing of sash will be shifted in direction of non-handle side

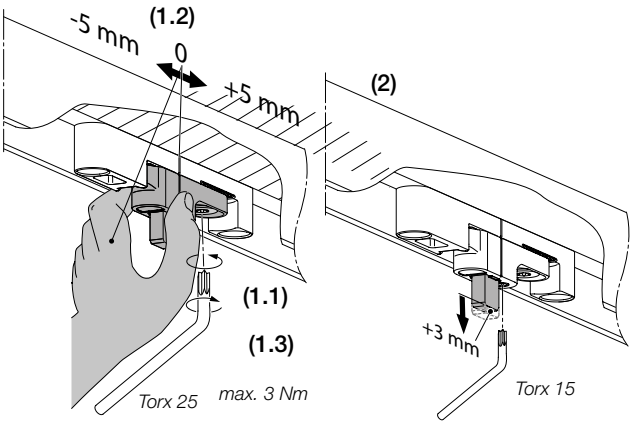
› (1.3) Fasten screw with max. 3 Nm.

› (2) Correction of the height of the frame piece (+ 3 mm) with Torx 15.

Adjustment at closing edge

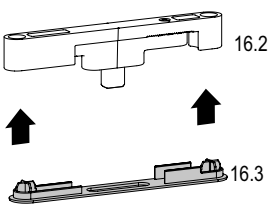


(Sash opened)
0 – 5 mm: towards closing position (frame)
0 + 5 mm: off the closing position (frame)



Note: Adjustments may be changed after glazing the sash and mounting the frame!

Mounting cover frame piece



Technical data

Range of application scheme A:

Sash width (FB)	720 – 3385 mm
$FB_{min.}$ for 2x Comfort Close	885 mm
Sash height (FH)	745 – 2870 mm
Outer frame width (RAB)	6500 mm
Sash weight or sliding force without Comfort Close and Comfort Stop	size 1: max. 200 kg or max. 30 N size 2: max. 300 kg or max. 50 N (further sizes on request)

Depending on version of the profile sealing to be used, it can happen, that the sash cannot close completely.

Dimensions (W x H x D) Comfort Close Comfort Stop	 336 mm x 27.5 mm x 22 mm 336 mm x 27.5 mm x 22 mm
Soft move-in	starting approx. 100 mm off the closing edge
Increase of sliding force with Comfort Close or Comfort Stop	size 1: by 25 N (black) size 2: by 45 N (silver-grey)

Range of application is depending on used profile systems. Specifications of profile manufacturers to be observed.

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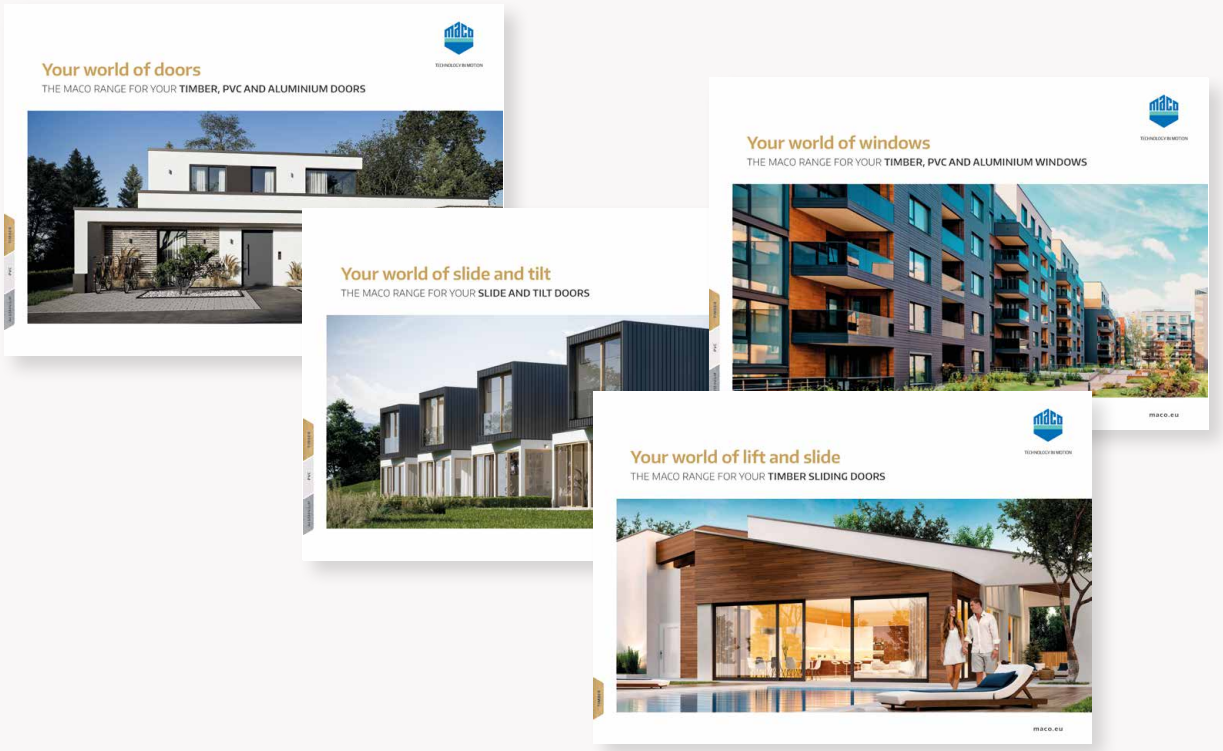

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