MACO
RAIL–SYSTEMS
SLIDING HARDWARE

ASSEMBLY INSTRUCTIONS

HS COMFORT CLOSE / COMFORT STOP
concealed with reinforcement V192, V372
Profine PremiDoor 88+/76

PVC

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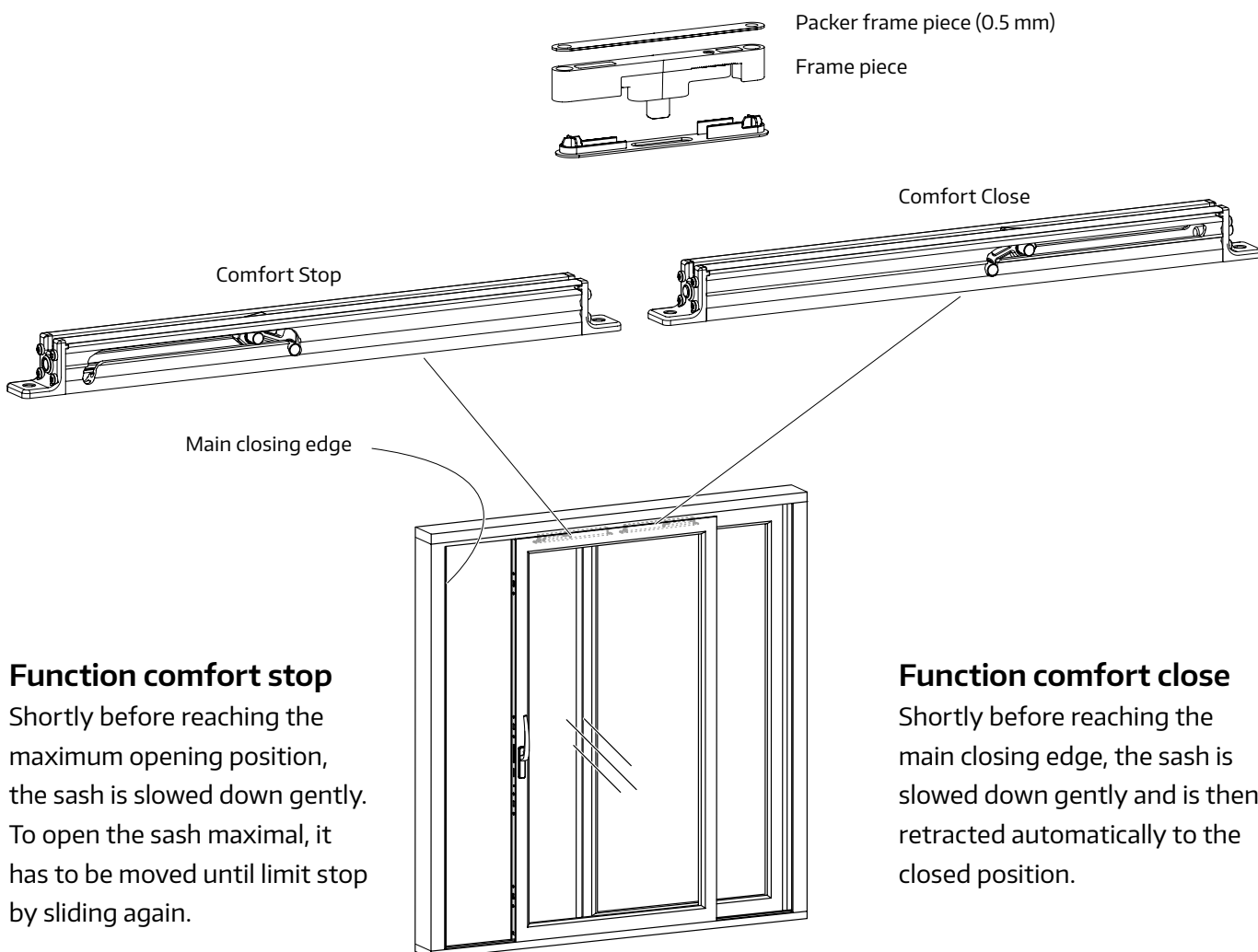
Important instructions

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 Profine PremiDoor 88, Order No. 758562EN or HS-Hardware Profine PremiDoor 76, Order No. 758548EN, 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.

Function

Packer frame piece (0.5 mm)

Frame piece

Comfort Close

Comfort Stop

Main closing edge

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.
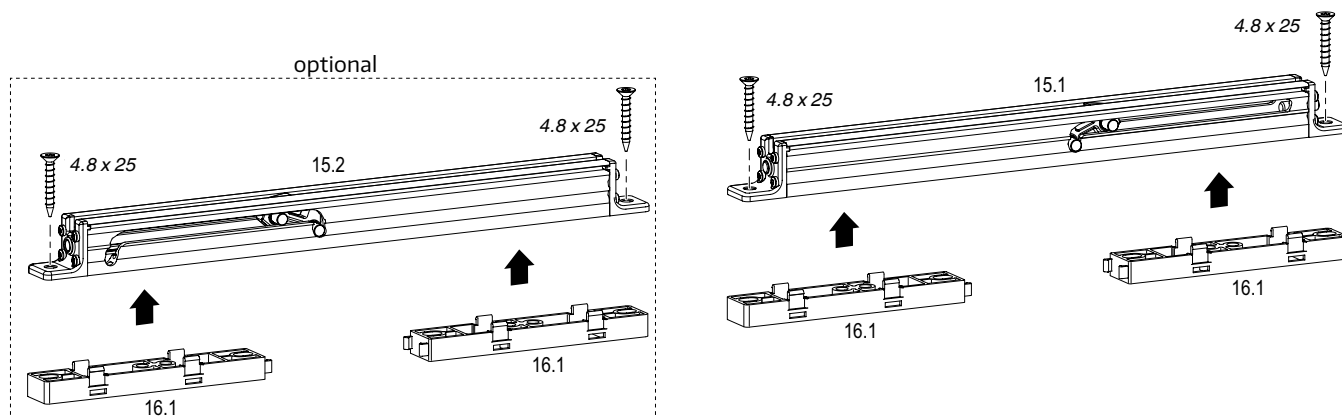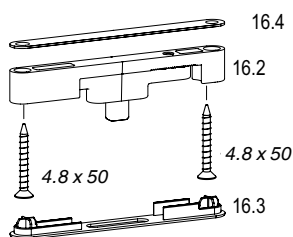
Function comfort close

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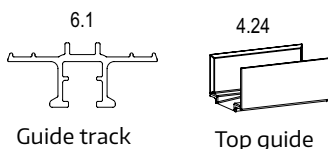
Fittings overview

Pos.	Description
4.24	Top guide
6.1	Guide Track
15.1	Comfort Close
15.2	Comfort Stop
16.1	Packer housing
16.2	Frame piece
16.3	Cover frame piece
16.4	Packer frame piece

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

16.4

16.2

4.8 x 50

4.8 x 50

16.3

optional

4.8 x 25

15.2

4.8 x 25

16.1

16.1

4.8 x 25

15.1

4.8 x 25

16.1

16.1

required for mounting:
guide track and U-guide (please refer to HS-mounting instructions Profine PremiDoor 88+/76, document item, 758562/758548 too)

6.1

4.24

Guide track

Top guide

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

Fittings overview

Items per sliding sash

					Item Code
			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	
1[x)]	**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	
	Accessories Comfort Close + Comfort Stop 16.1, 16.4, 4.24				305140
1	**Accessories Comfort Close + Comfort Stop** 16.1, 16.4, 4.24				305140
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

Frame width

65

FB - 91.5

FB + 14.5

6.1

(2)

6.1

(1)

(3) Ø 4.2

100

16.4

16.2

i

Position
this side to
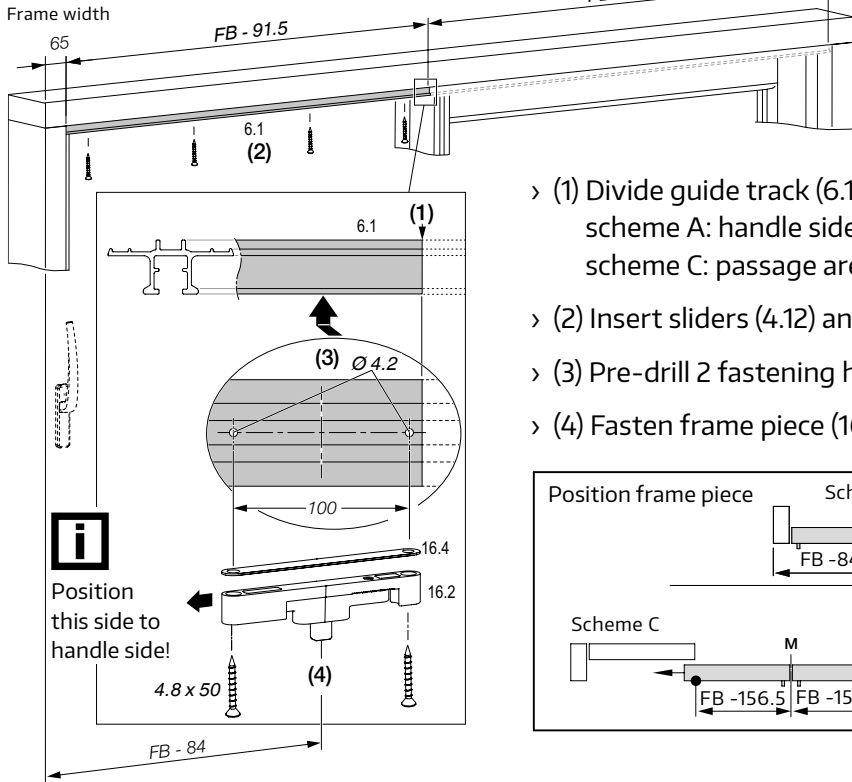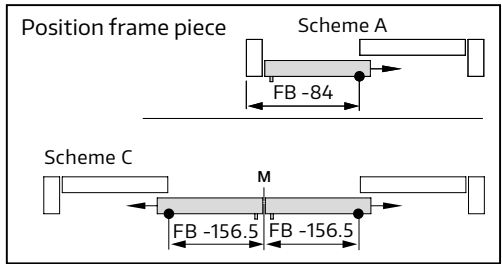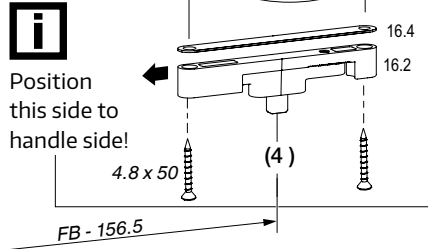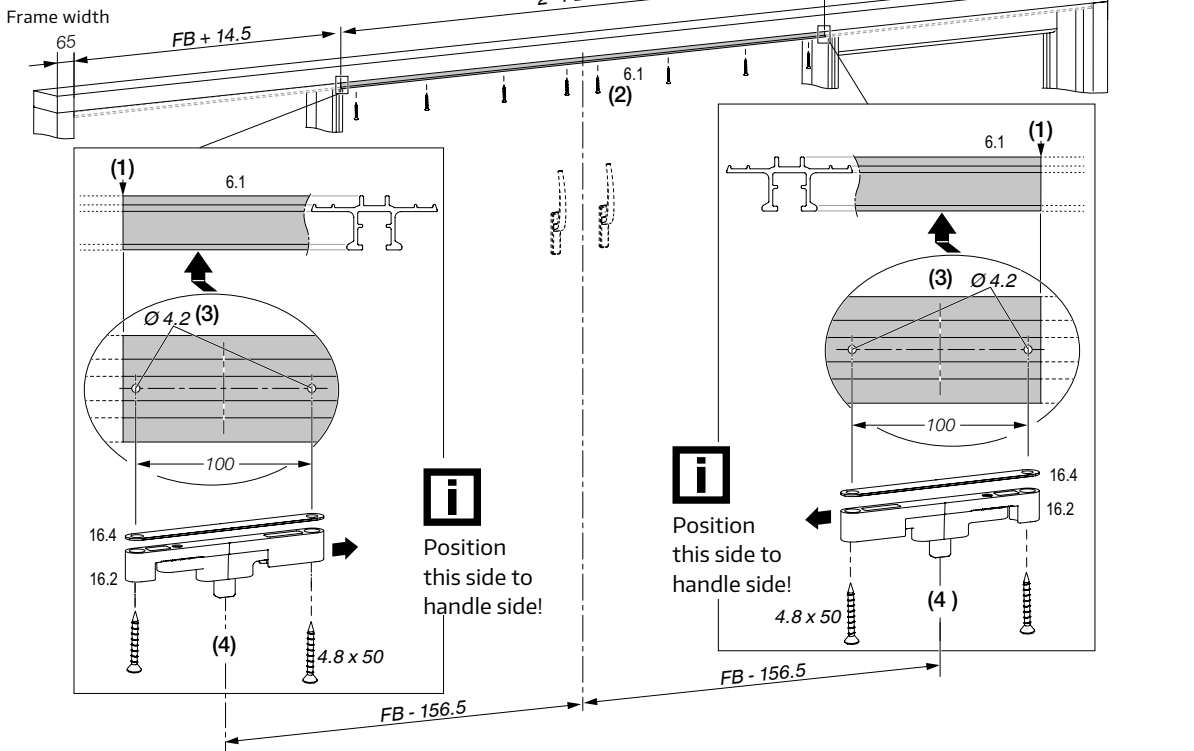handle side!

4.8 x 50

(4)

FB - 84

Illustration with dividing of the guide
track; However, for this profile system
dividing is not mandatory.

› (1) Divide guide track (6.1):
   scheme A: handle side: FB - 91.5 mm, fixed sash side: FB + 14.5.
   scheme C: passage area: 2.FB - 187.5, fixed sash: FB + 14.5.

› (2) Insert sliders (4.12) and fasten guide track (6.1) on handle side.

› (3) Pre-drill 2 fastening holes Ø 4.2.

› (4) Fasten frame piece (16.2) with packer (16.4).

Position frame piece	Scheme A	

Scheme A

FB -84

Scheme C

M

FB -156.5 | FB -156.5

Frame width

65

Scheme C

Frame width

65

FB + 14.5

2 · FB - 187.5

FB + 14.5

6.1

(2)

(1)

6.1

(1)

6.1

(3) Ø 4.2

Ø 4.2 (3)

100

100

16.4

16.2

16.4

16.2

i

Position
this side to
handle side!

i

Position
this side to
handle side!

16.4

16.2

4.8 x 50

(4)

(4)

4.8 x 50
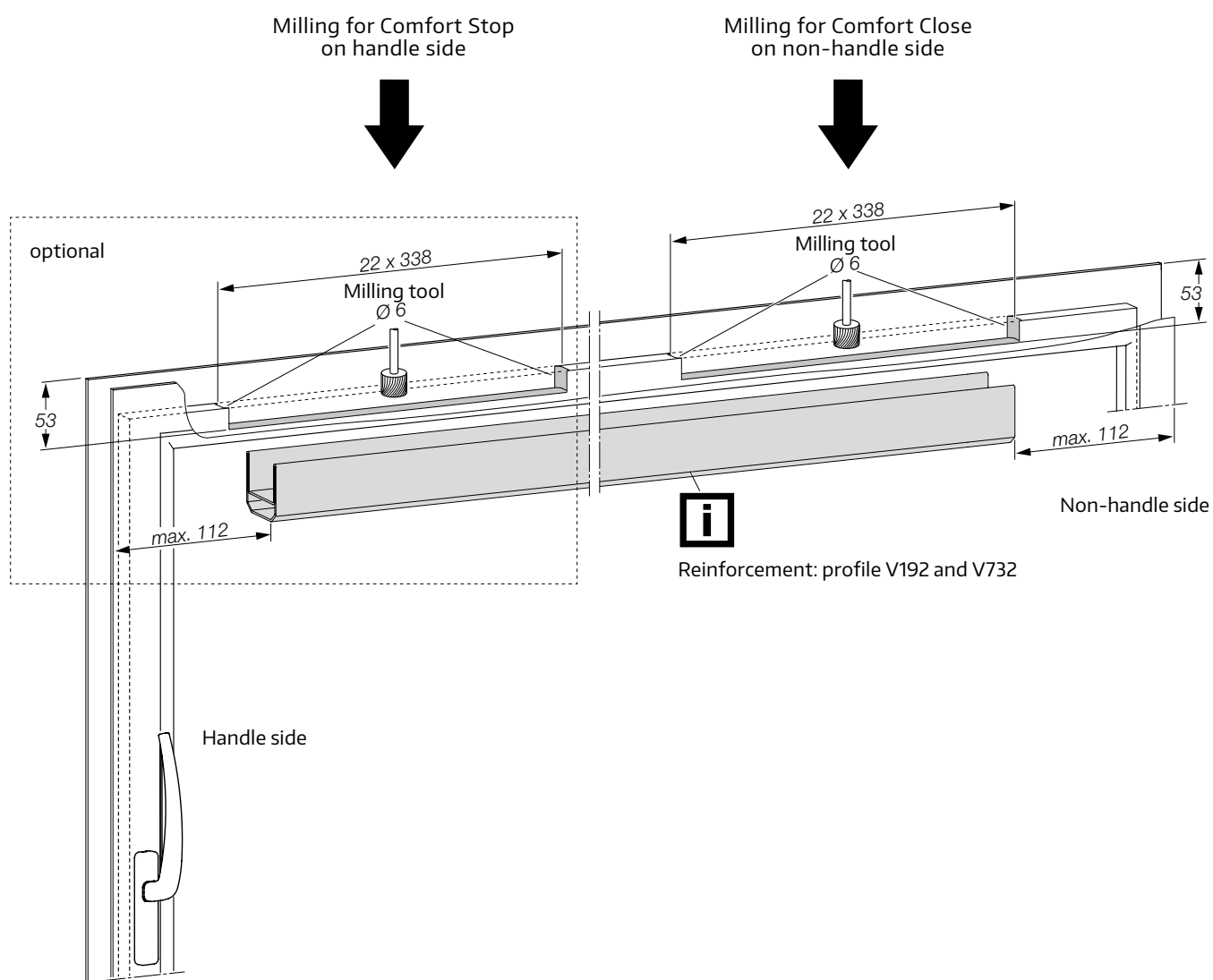
FB - 156.5

FB - 156.5

FB - 156.5

Preparation sash

› Carry out sash milling for Comfort Close on non-handle side and/or for Comfort Stop on handle side.
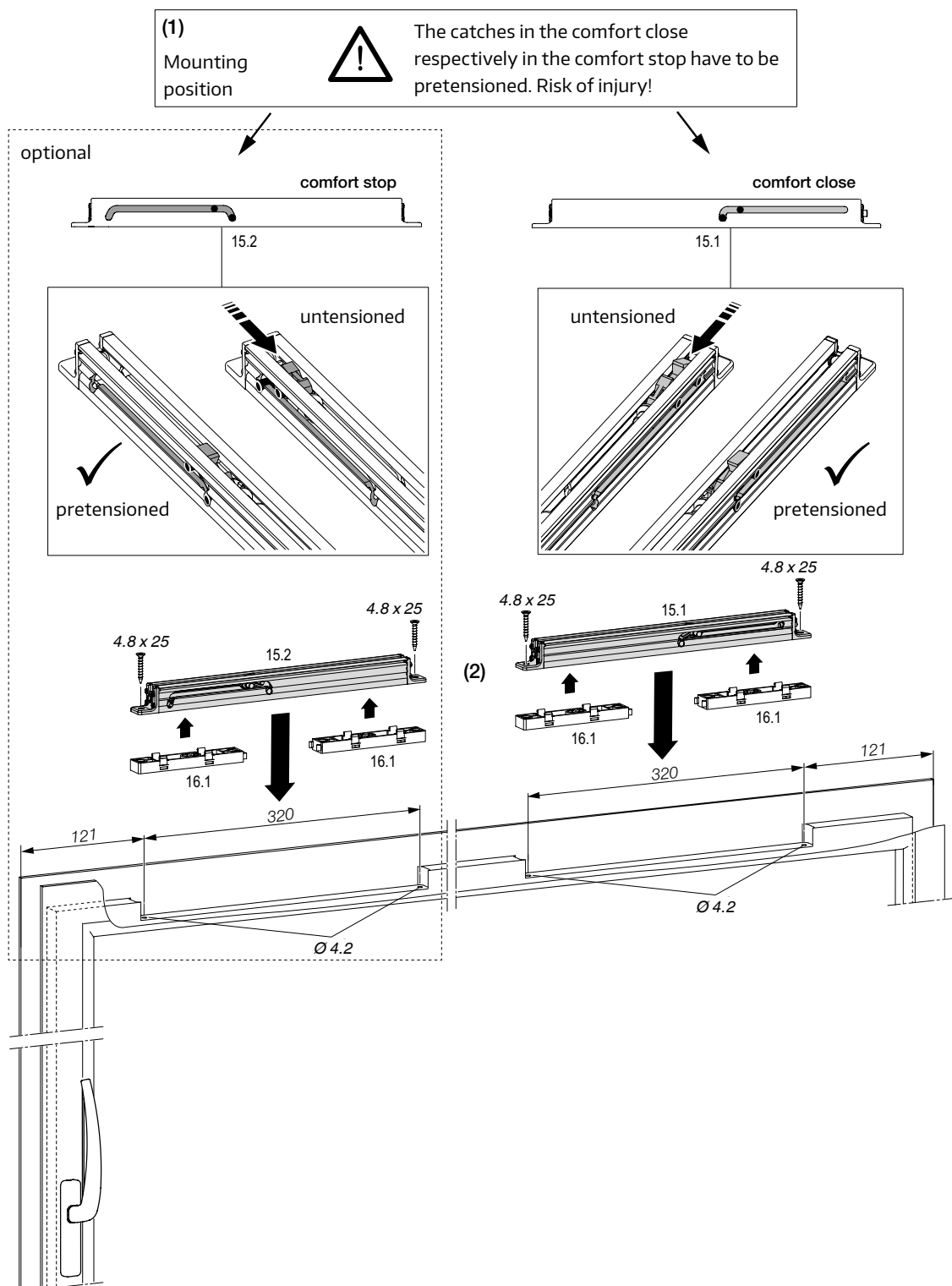
i **The reinforcement „V192" (PD 88+) and "V372" (PD 76) has to be within the area of Comfort Close respectively Comfort Stop (slide in max. 112 mm to outer edge of sash).**

Milling for Comfort Stop
on handle side

Milling for Comfort Close
on non-handle side

22 x 338

Milling tool
Ø 6

53

optional

22 x 338

Milling tool
Ø 6

53

max. 112

Non-handle side

max. 112

i Reinforcement: profile V192 and V732

Handle side

Mounting Comfort Close/Comfort Stop

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

› (2) Clip packer onto the housing of the Comfort Close and/or onto the housing of the Comfort Stop.

› (3) Mount the Comfort Close respectively Comfort Stop with 2 screws 4.8 x 25 each at the sash.

(1)

Mounting position

⚠ The catches in the comfort close respectively in the comfort stop have to be pretensioned. Risk of injury!

optional

comfort stop
15.2

comfort close
15.1

untensioned

✓

pretensioned

untensioned

✓

pretensioned

4.8 x 25

4.8 x 25
15.2

16.1

16.1

(2)

4.8 x 25
15.1

4.8 x 25

16.1

16.1

320

121

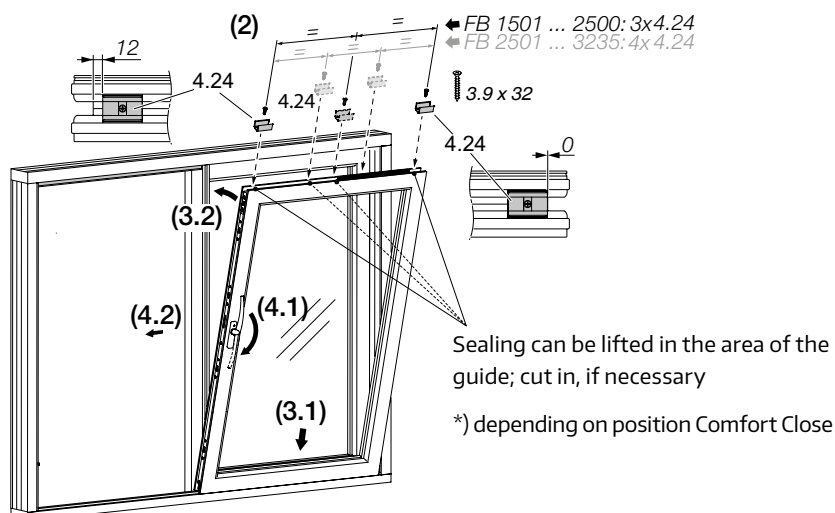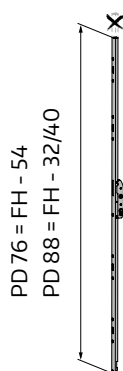320

121

Ø 4.2

Ø 4.2

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.
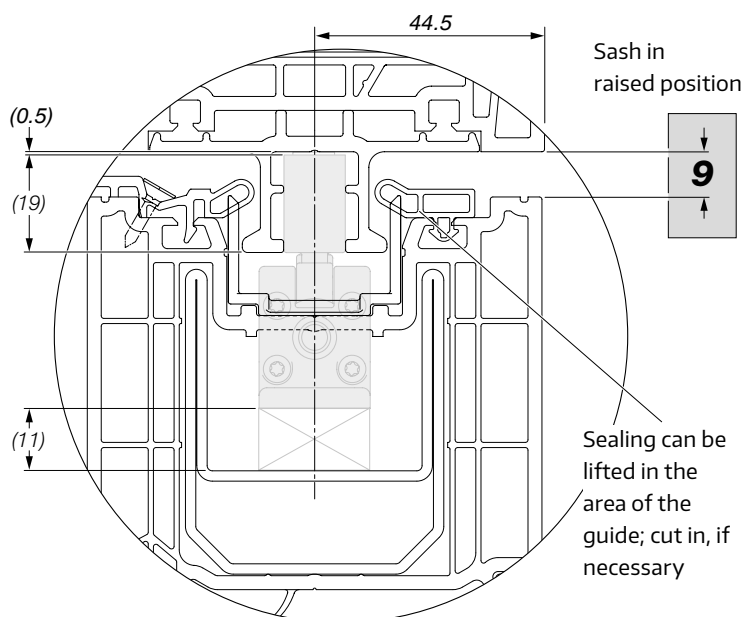
Example: scheme A; scheme C accordingly

› (1) Cut espag into lengths.

› (2) Fasten U-guides (4.24) within the top sash rebate.

› (3) Set down the sliding sash onto the running track in the area of the fixed sash and swivel it into the element.

› (4) Bring handle into „Open" position and slide the sliding sash to the transit area.

(1)
refer to mounting instructions,
758562 PD 88+, 758548 PD 76, too

PD 76 = FH - 54
PD 88 = FH - 32/40

(2)
12
4.24
4.24
◄ FB 1501 ... 2500: 3x4.24
◄ FB 2501 ... 3235: 4x 4.24
3.9 x 32
4.24
0

(3.2)
(4.2)
(4.1)
(3.1)

Sealing can be lifted in the area of the guide; cut in, if necessary

*) depending on position Comfort Close

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 respectively comfort stop (desired value = 9 mm).

› If necessary, slide the sash aside and compensate deviation to the reference dimension by adjustment of the frame piece (refer to „Adjustment options".
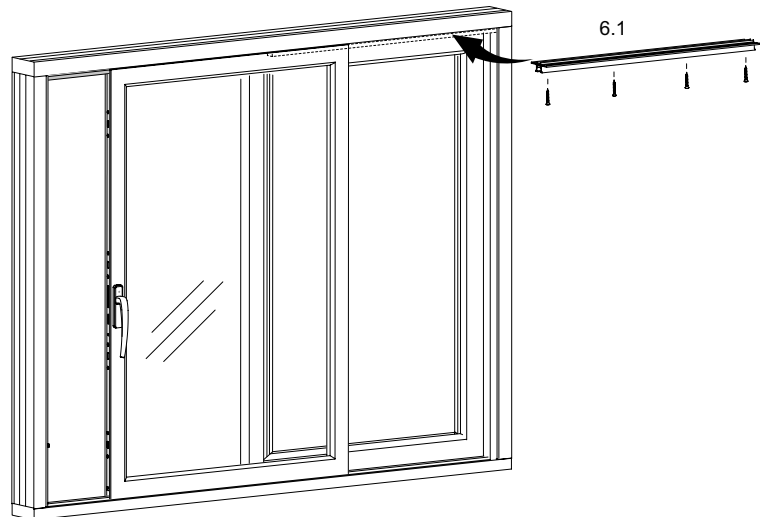
› Fasten guide track on fixed sash side.

44.5
(0.5)
(19)
(11)

Sash in raised position

9

Sealing can be lifted in the area of the guide; cut in, if necessary

Completion of guide track

(If the guide track is not divided,
this work step is not necessary.)

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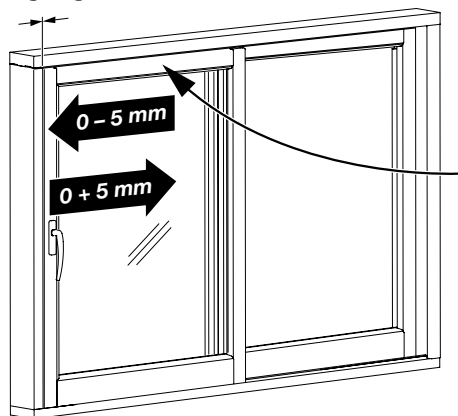Fasten the guide track at frame profile.

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.

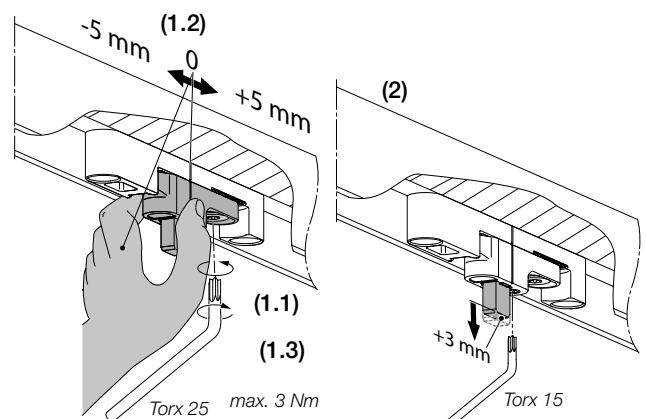To do this, the sash has to be opened.

> (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.
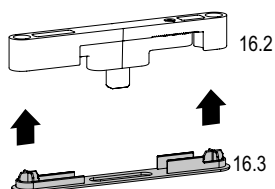
Adjustment at
closing edge

0 – 5 mm
0 + 5 mm

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

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

-5 mm   (1.2)   0   +5 mm   (2)

(1.1)
(1.3)
+3 mm

Torx 25   max. 3 Nm   Torx 15

Mounting cover frame piece

16.2

16.3

Technical data

Range of application scheme A:

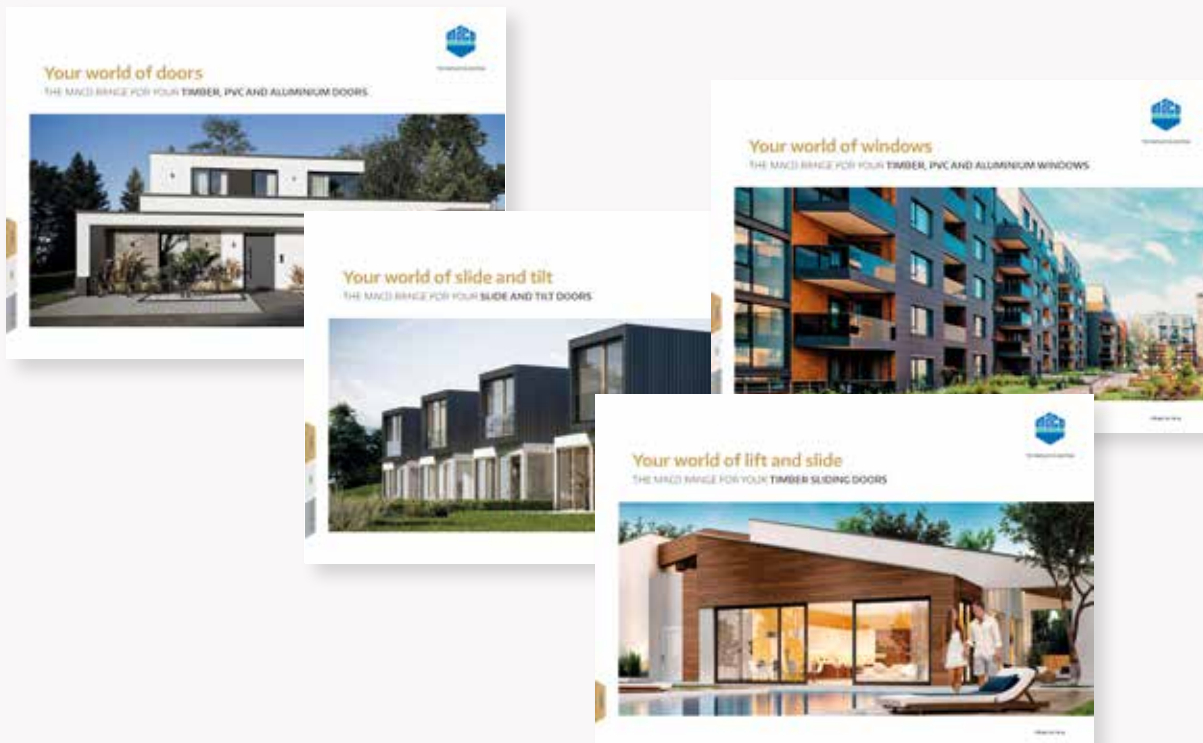|	
Sash width (FB)	700 – 3280 mm
$FB_{min.}$ for 2x Comfort Close	890 mm
Sash height (FH)	815 – 2920 mm
Outer frame width (RAB)	acc. to profile manufacturer's specifications

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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