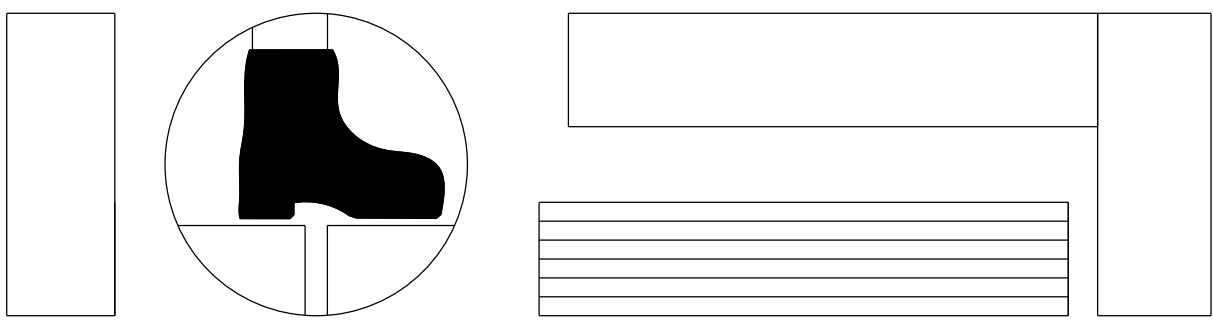
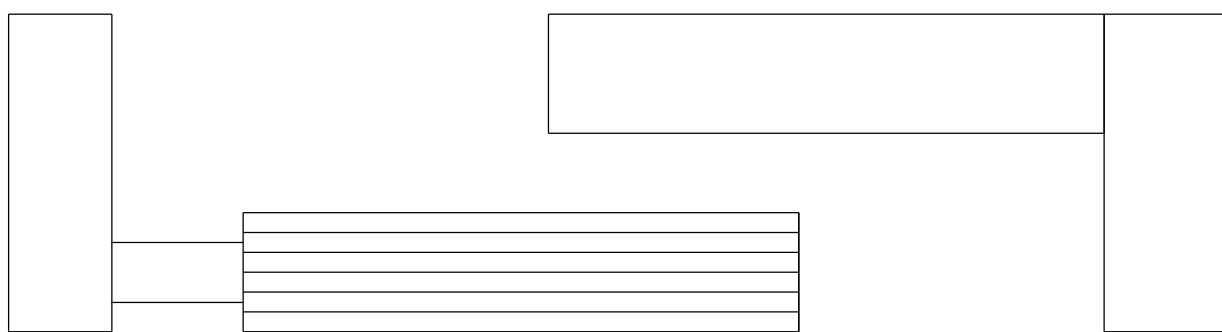


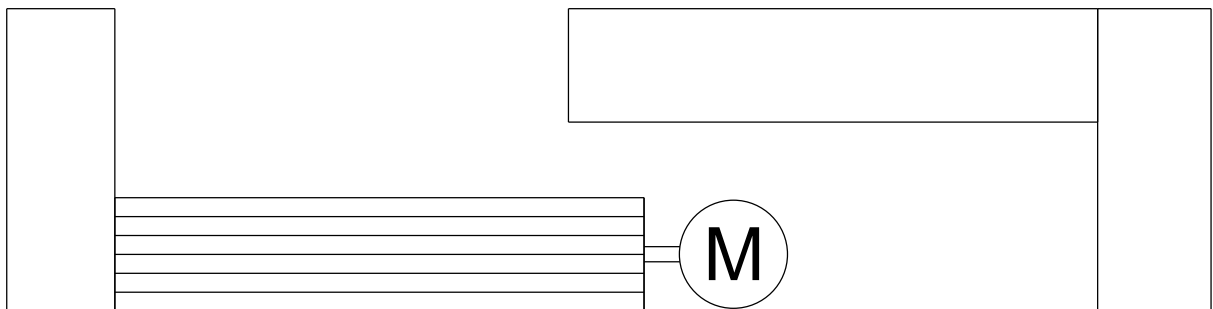
L&S threshold, floor-flush



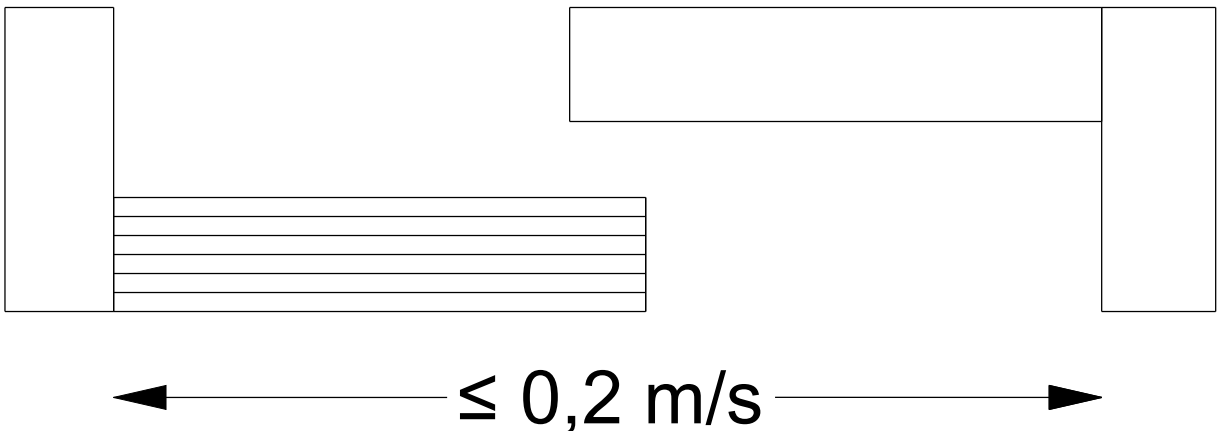
L&S night vent module



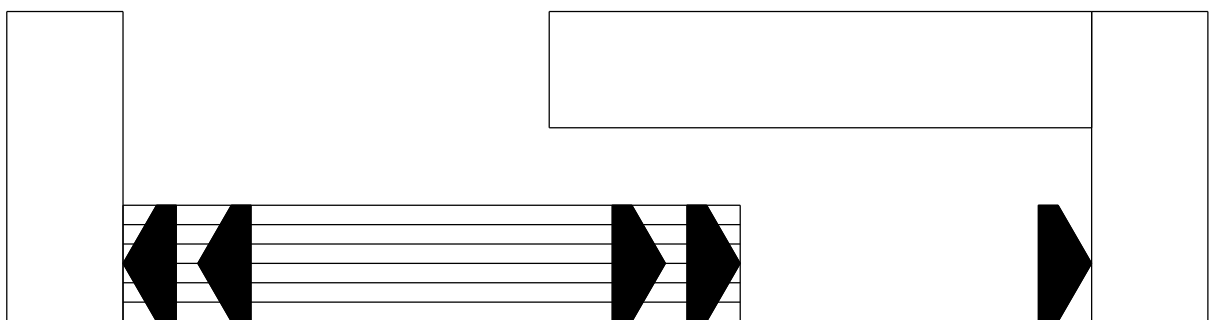
HS ePOWER



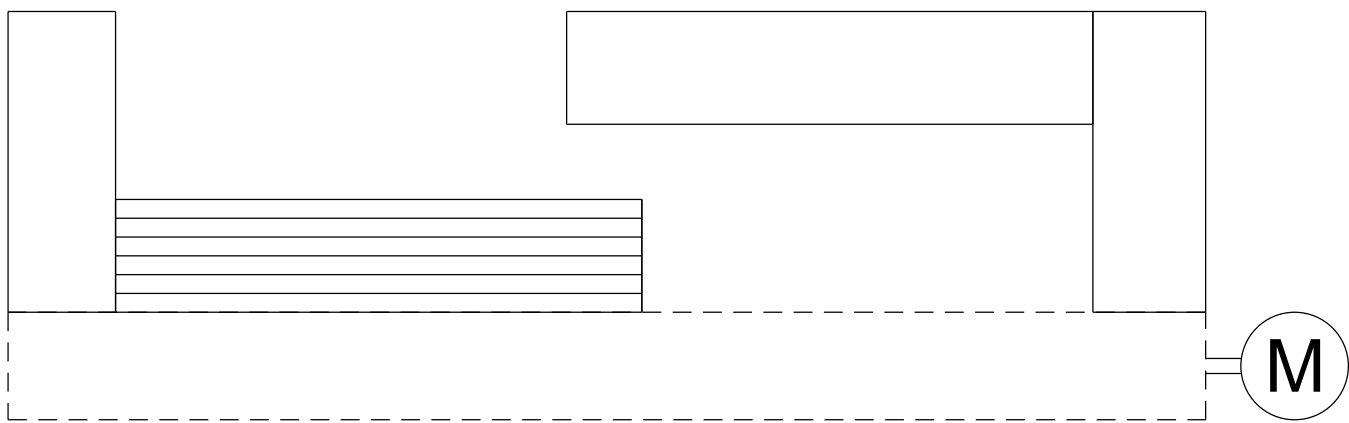
HS SPEED Limiter



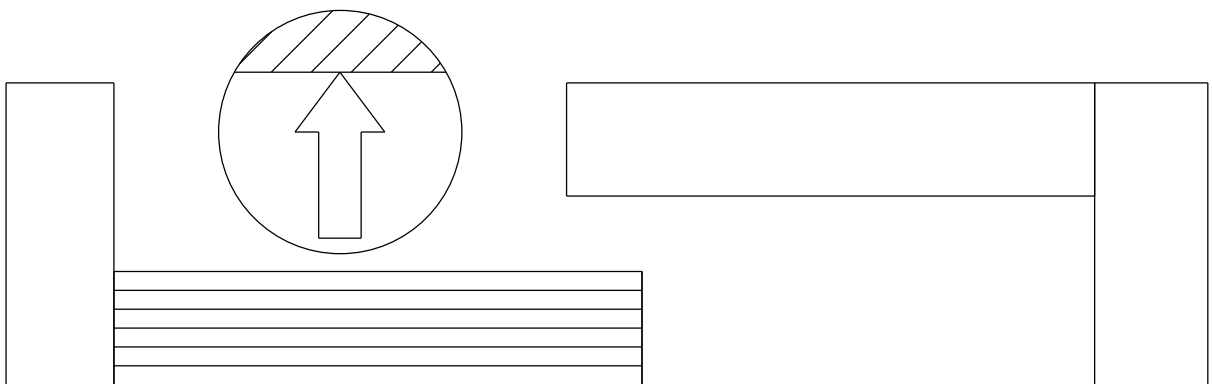
HS SilentClose / HS StopUnit



HS Master



Anti-jemmy device

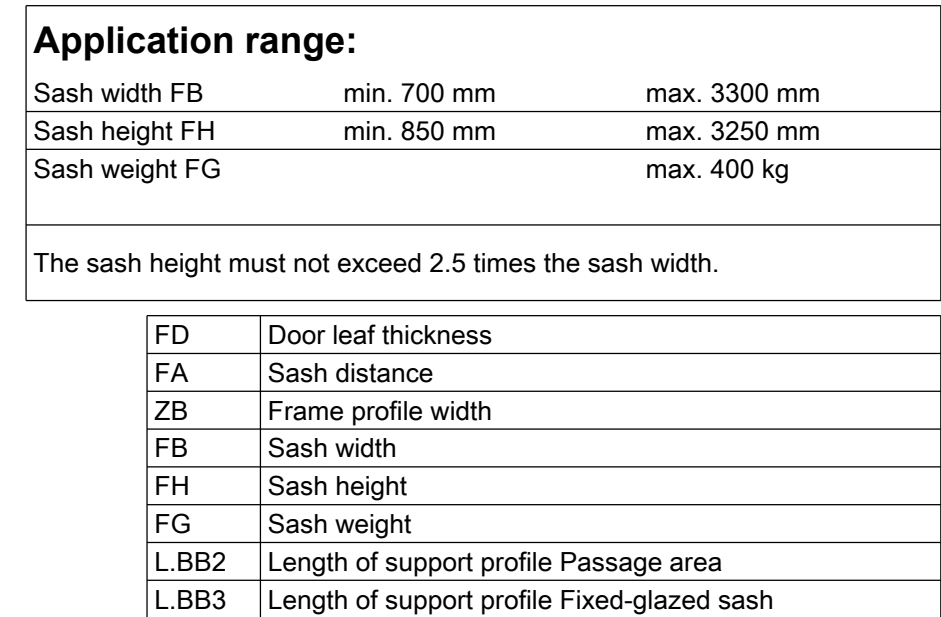


Drawings overview	
L&S threshold, floor-flush	Sheet 2 - 3
HS ePOWER	Sheet 4 - 7
HS SilentClose / HS StopUnit	Sheet 8 - 12
Anti-jemmy device	Sheet 13 - 14
L&S night vent module	Sheet 15
HS SPEED Limiter	Sheet 16
HS Master	Sheet 17
Installation aids	Sheet 18
Accessories	Sheet 19

FD	Door leaf thickness	see calculation form	Hardware area see neutral installation drawing 0-48511-FJ-0-0
FA	Sash distance		
ZB	Frame profile width		
i	Inside	see calculation form	Threshold area see neutral installation drawing 0-48512-FV-0-0
m	Centered		
a	Outside		

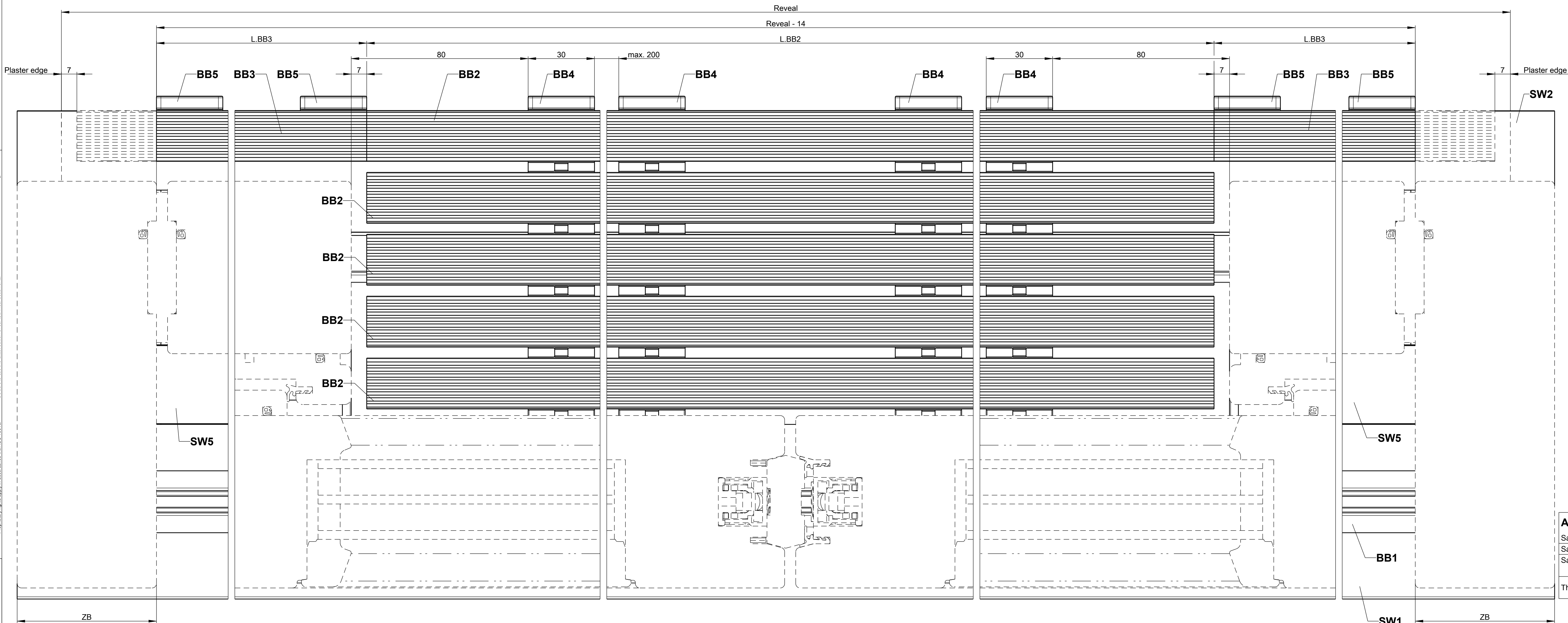
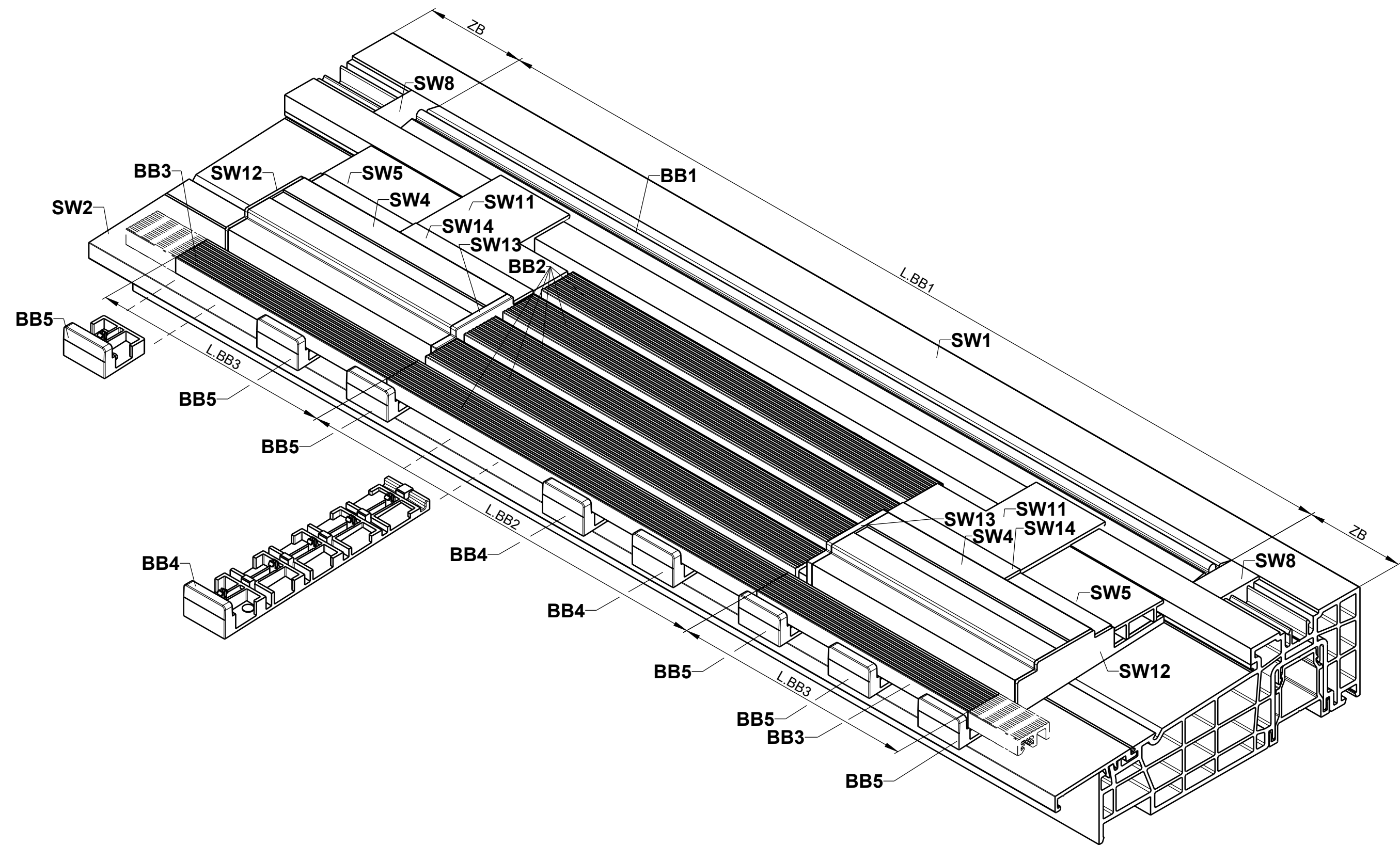
Note:  
Corner connections, impact points and coupling points must be carried out in a dimensionally stable and permanently tight manner in accordance with the recognised rules of the art, see also DIN 68121-2.

When installing the element, ensure that the threshold is supported against the structure in a dimensionally stable manner.  
The distance between the supporting points should not exceed 500 mm.  
Max. hole distance with sash weights exceeding 250 kg: 300 mm.



**L&S threshold,  
floor-flush  
Pattern A**

<b>GU</b>	Date	Change No.	Sig	Ver.	Replacement for	Revision:	Iteration:	Level:	Scale	Drawing No.	Size	Sheet
	19.11.2019	G34699	Mj	De	--	1	44	Released	%	<b>0-48567-FJ-0-0</b>	A1	2/19



Application range:		
Sash width FB	min. 700 mm	max. 3300 mm
Sash height FH	min. 850 mm	max. 3250 mm
Sash weight FG		max. 400 kg
The sash height must not exceed 2.5 times the sash width.		

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FB	Sash width
FH	Sash height
FG	Sash weight
L.BB2	Length of support profile Passage area
L.BB3	Length of support profile Fixed-glazed sash

**L&S threshold,  
floor-flush  
Pattern C**

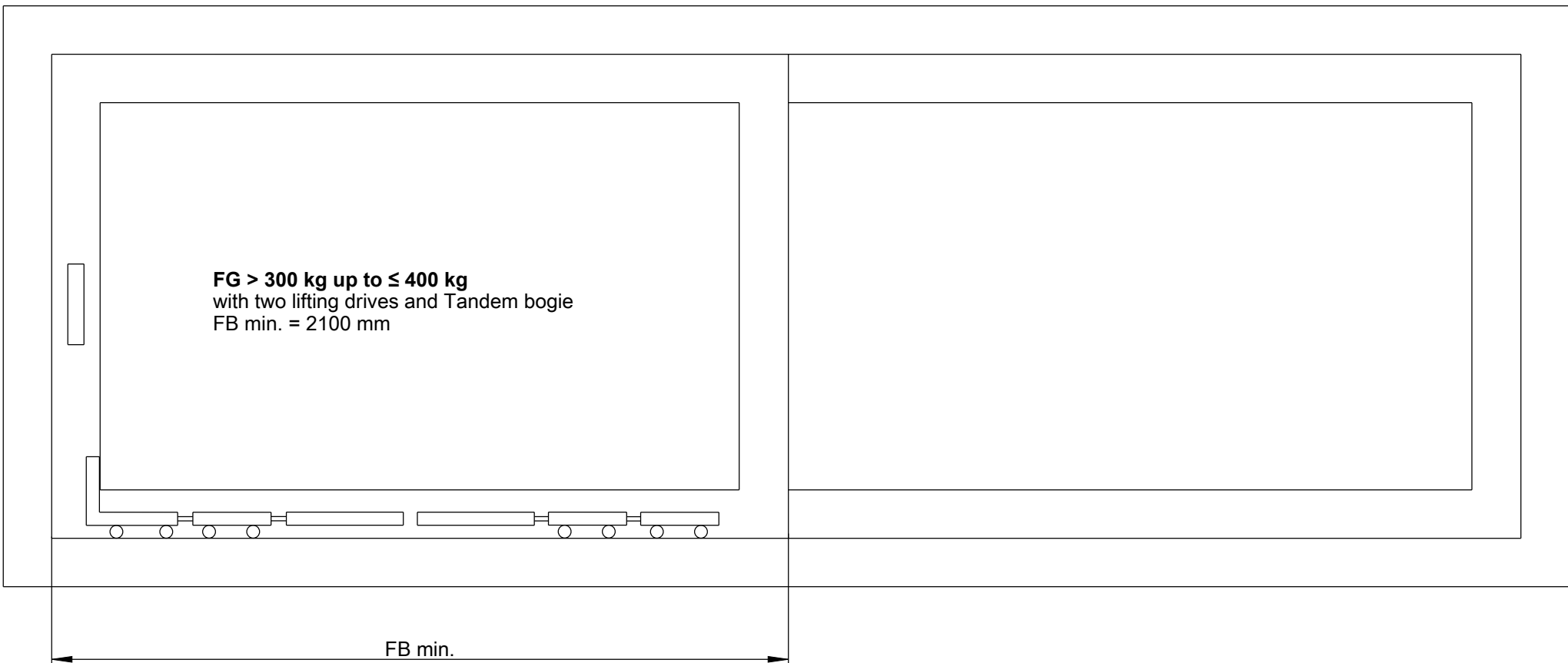
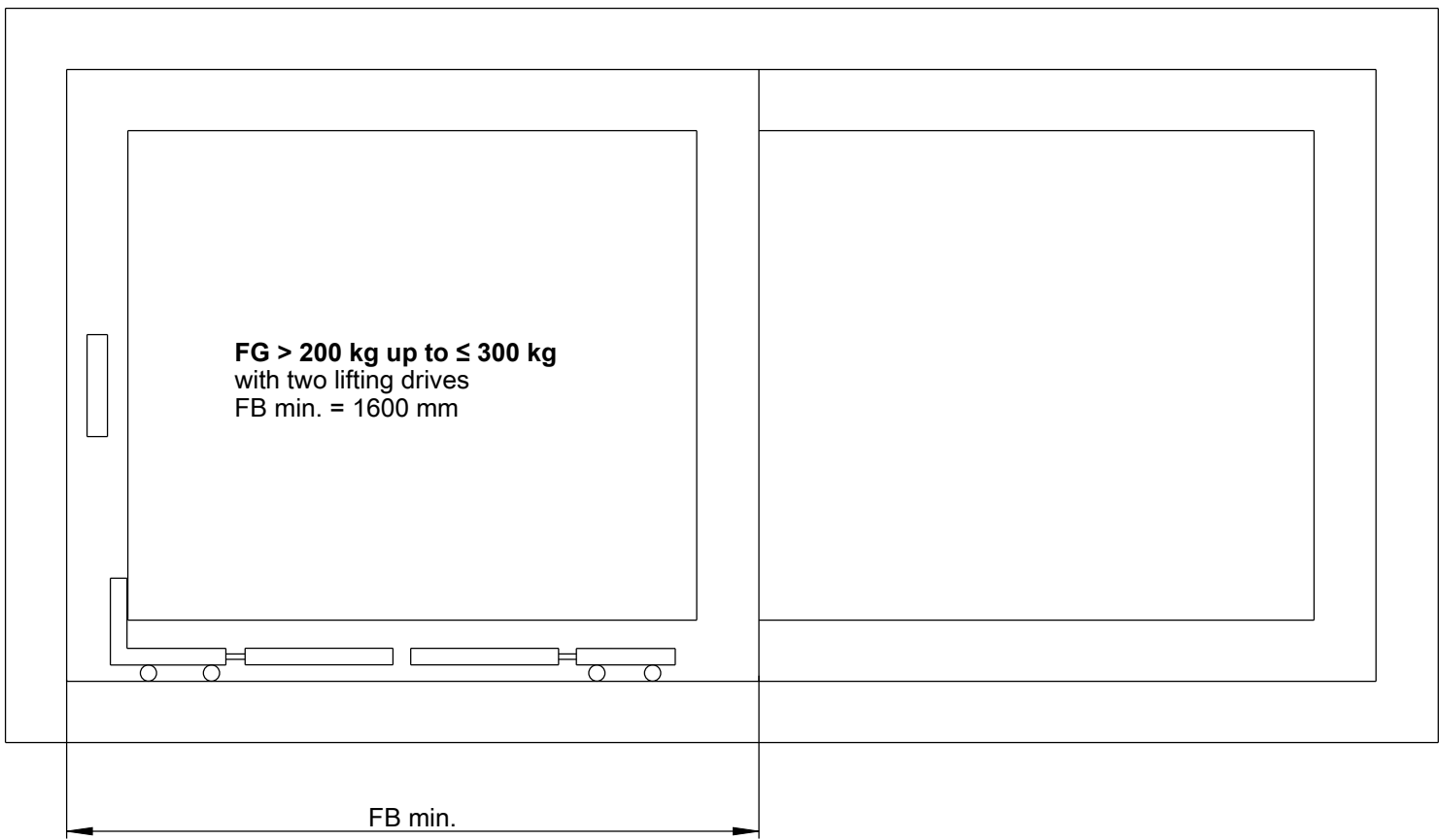
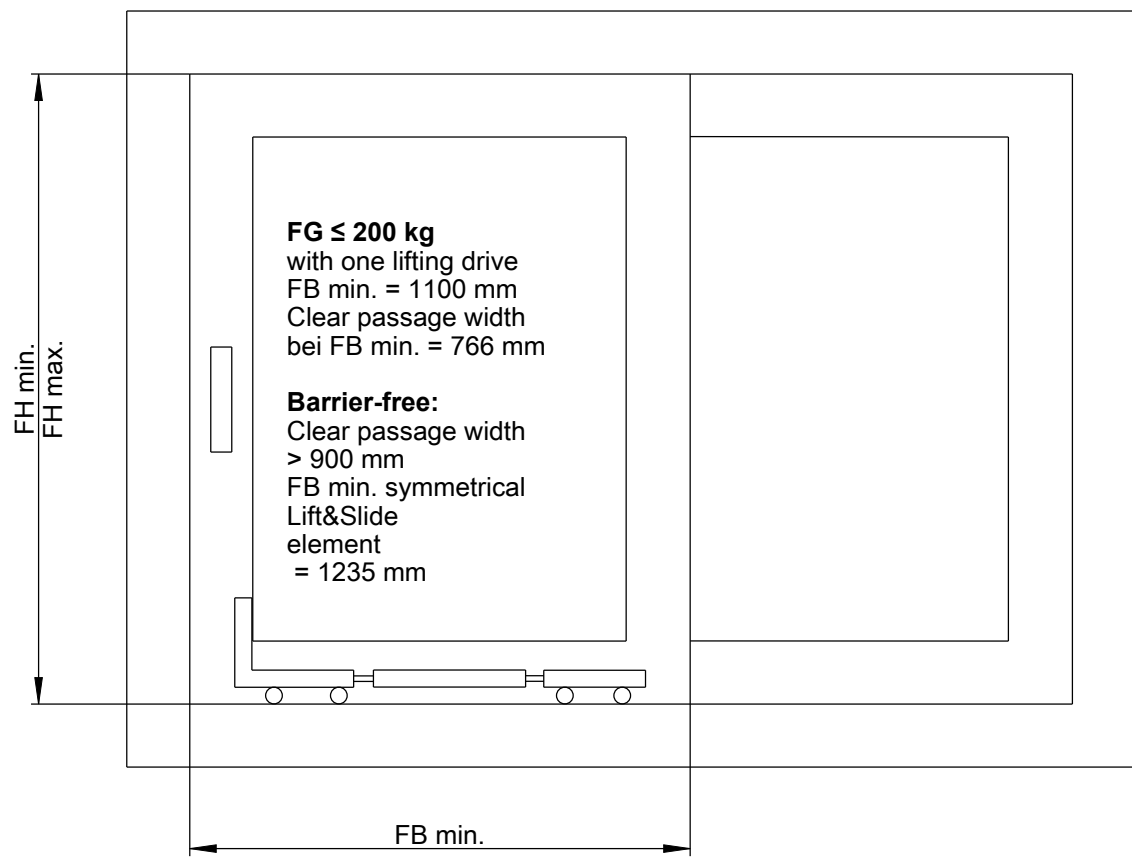
Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

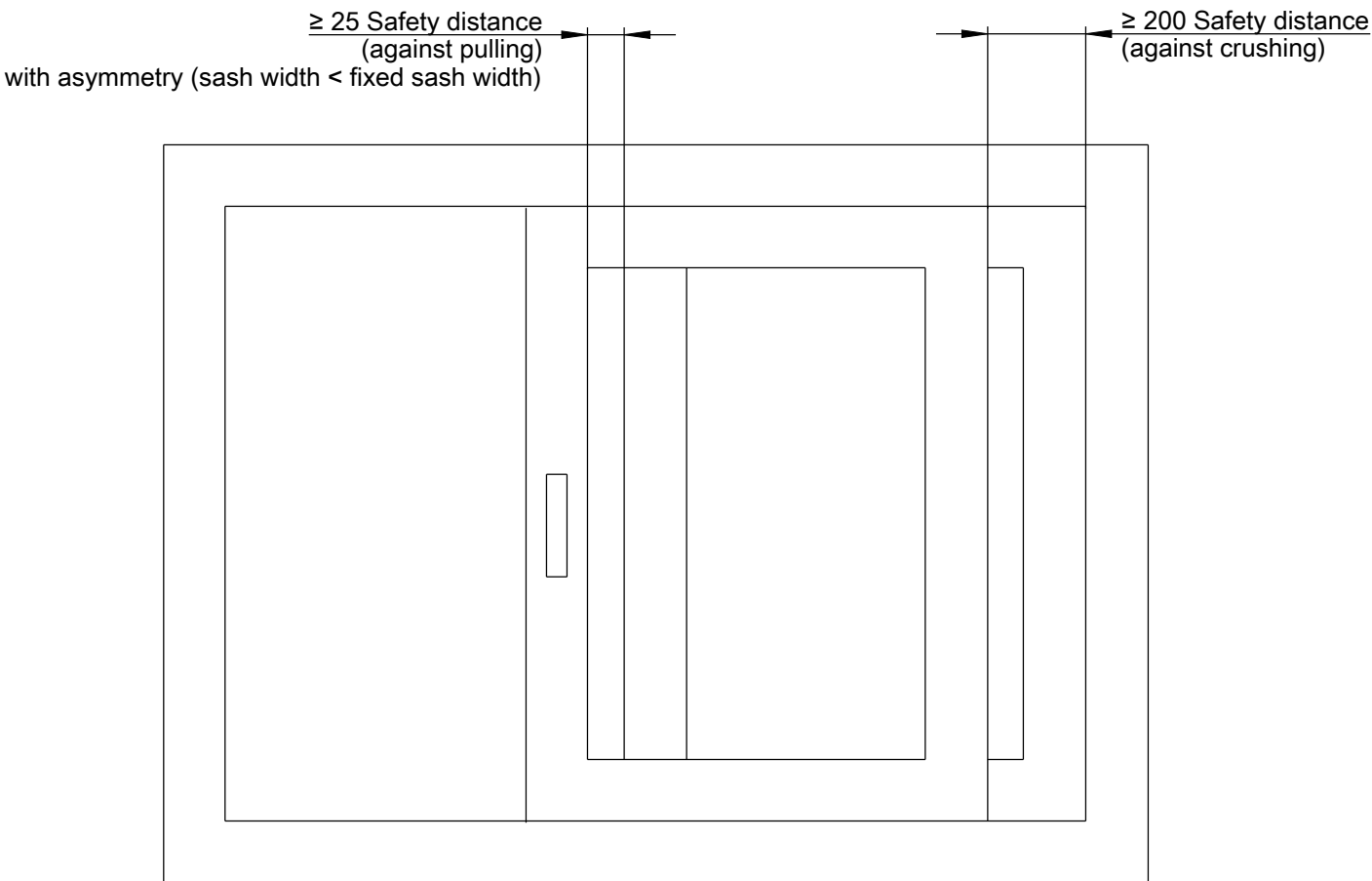
Scale	Drawing No.	Size	Sheet
%	0-48567-FJ-0-0	A1	3/19

1:1

Depiction of application ranges



Normal mode



**Application range:**

Sash width FB	min. 1100 mm	max. 3300 mm
Sash height FH	Spo 12: min. 1999.5 mm	max. 3091.5 mm
	Spo 15.5: min. 1996 mm	max. 3088 mm
Sash weight FG	max. 400 kg	

For the sash weights, 18 kg own weight of the HS ePOWER drive have to be considered.

The sash height must not exceed 2.5 times the sash width.

**Note:**  
According to DIN 68121, a suitable timber and profile with sufficient bending strength and wind load resistance must be chosen.  
If deformations are expected (due to the sash dimensions), suitable actions (selection of appropriate timber, profile geometry, stiffening elements) must be taken in advance.

Corner connections, impact points and coupling points must be carried out in a dimensionally stable and permanently tight manner in accordance with the recognised rules of the art, see also DIN 68121-2.

**Note with use of meeting-stile security profile:**  
The position of the mounting parts required for this and length of the accompanying fixing screws must not interfere with the hardware components.

The installation is performed in accordance with the HS ePOWER 0-47612-FM installation instructions which are supplied in the cardboard box alongside the HS ePOWER drive.

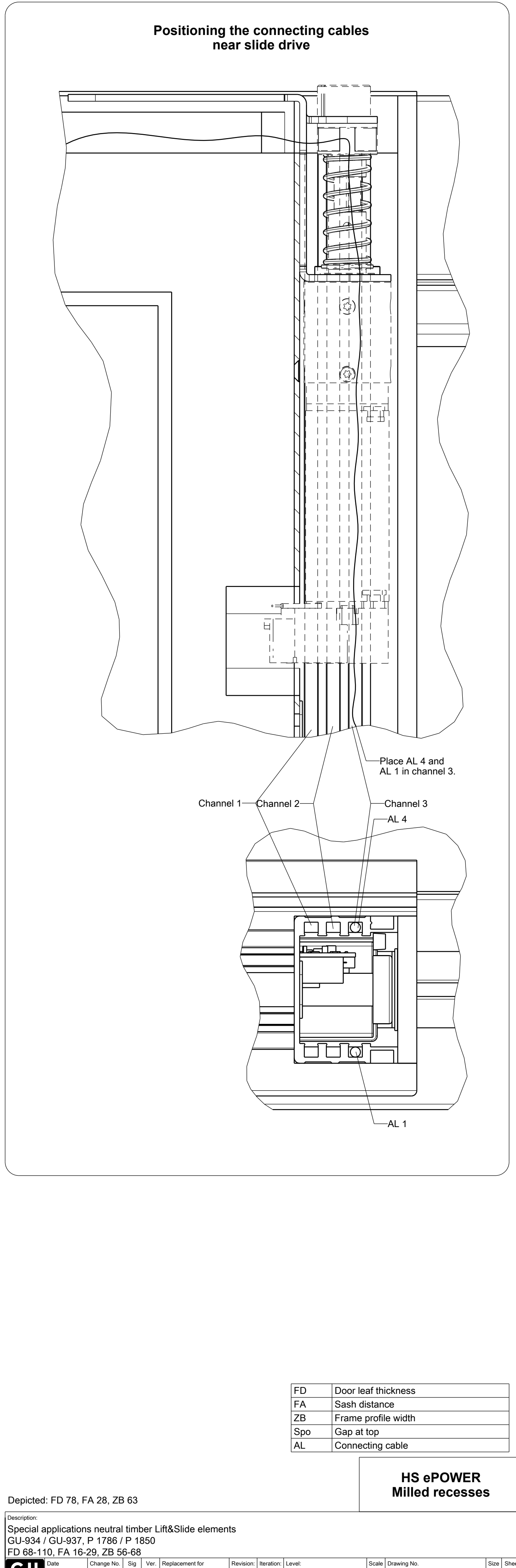
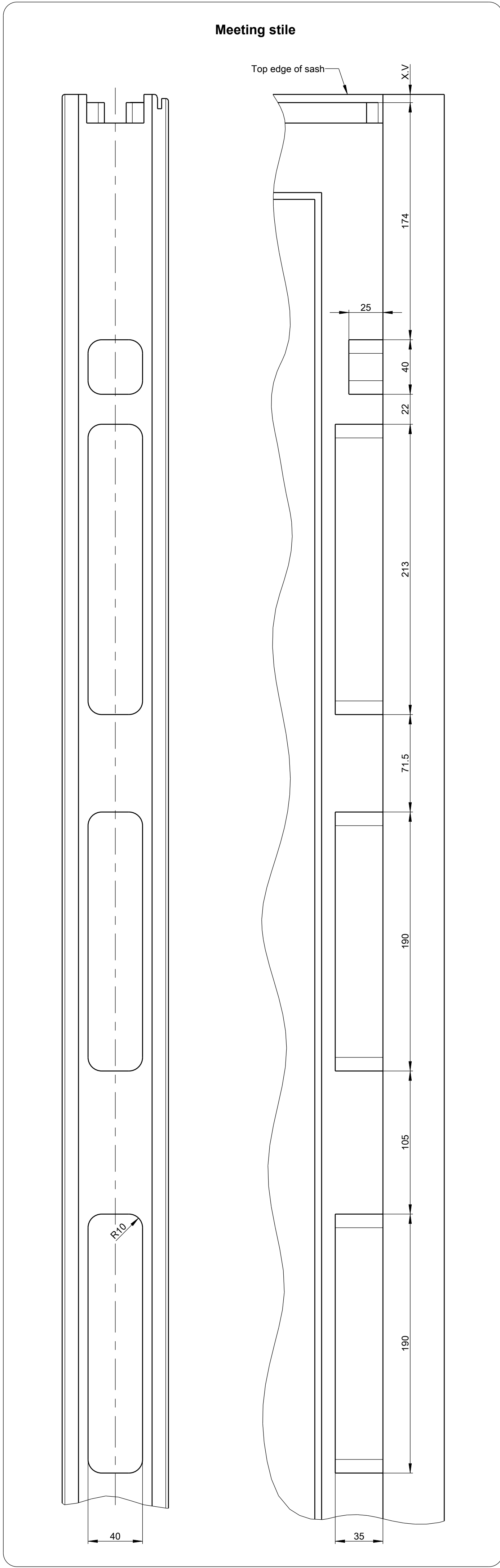
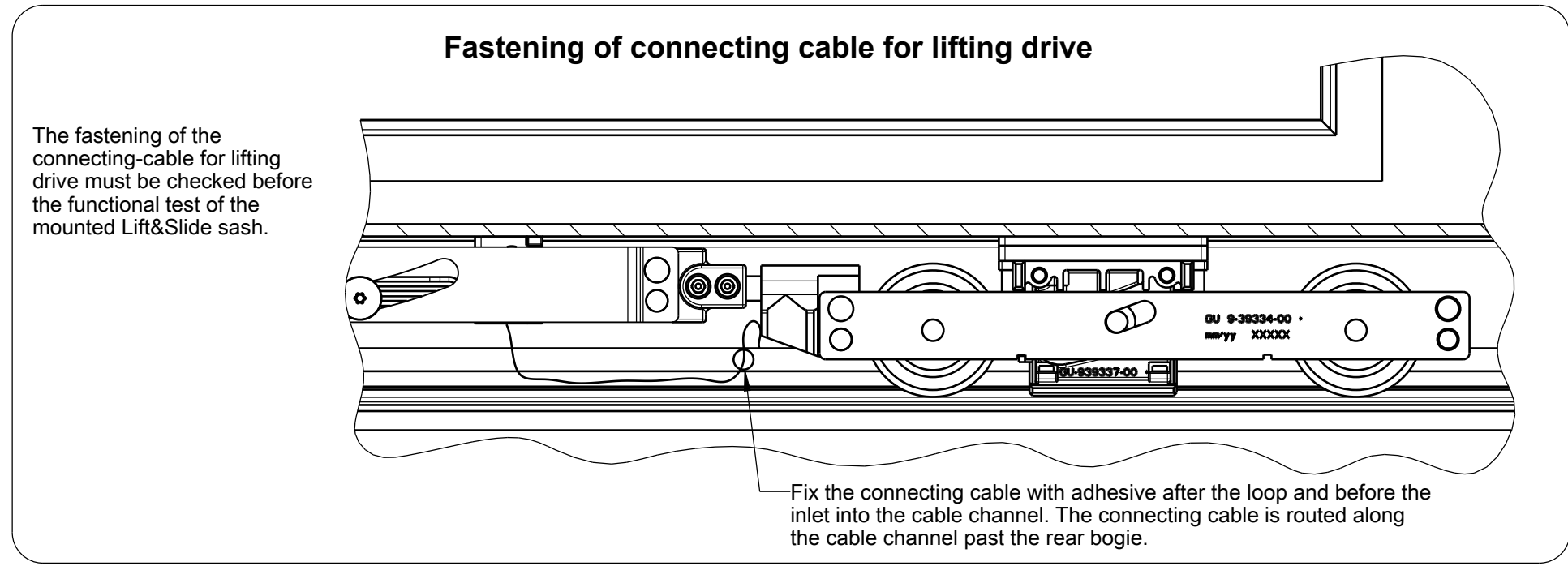
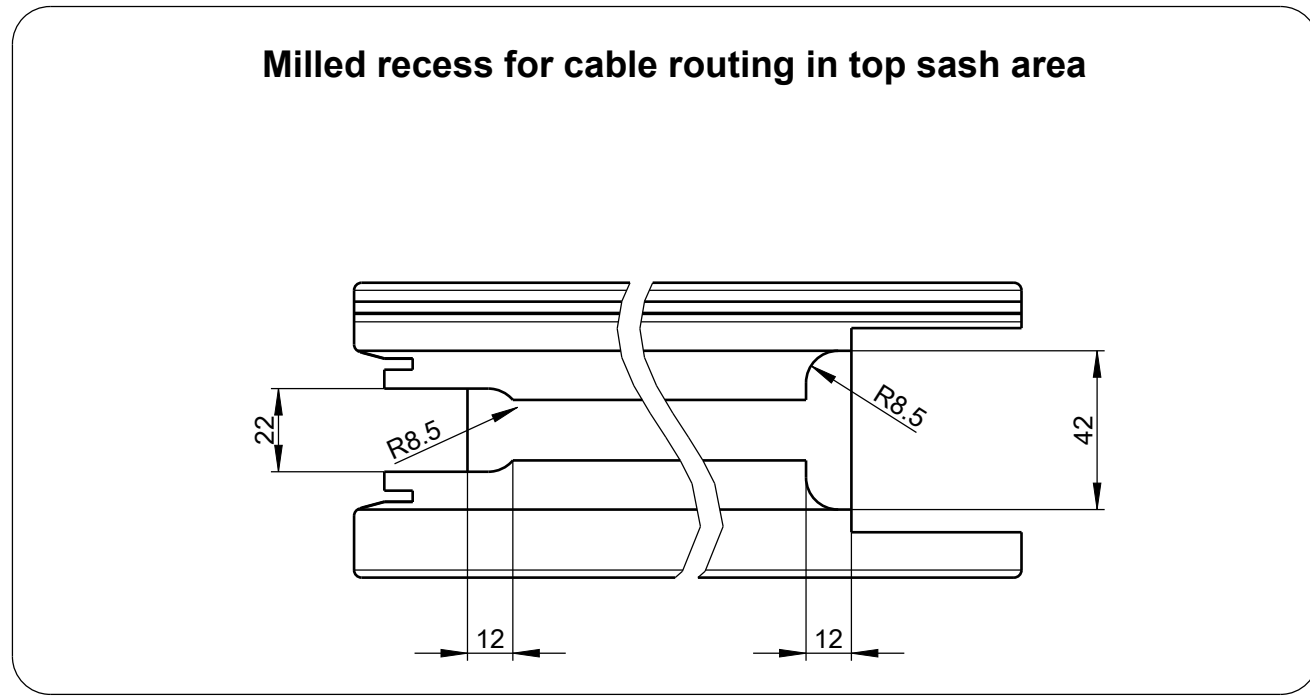
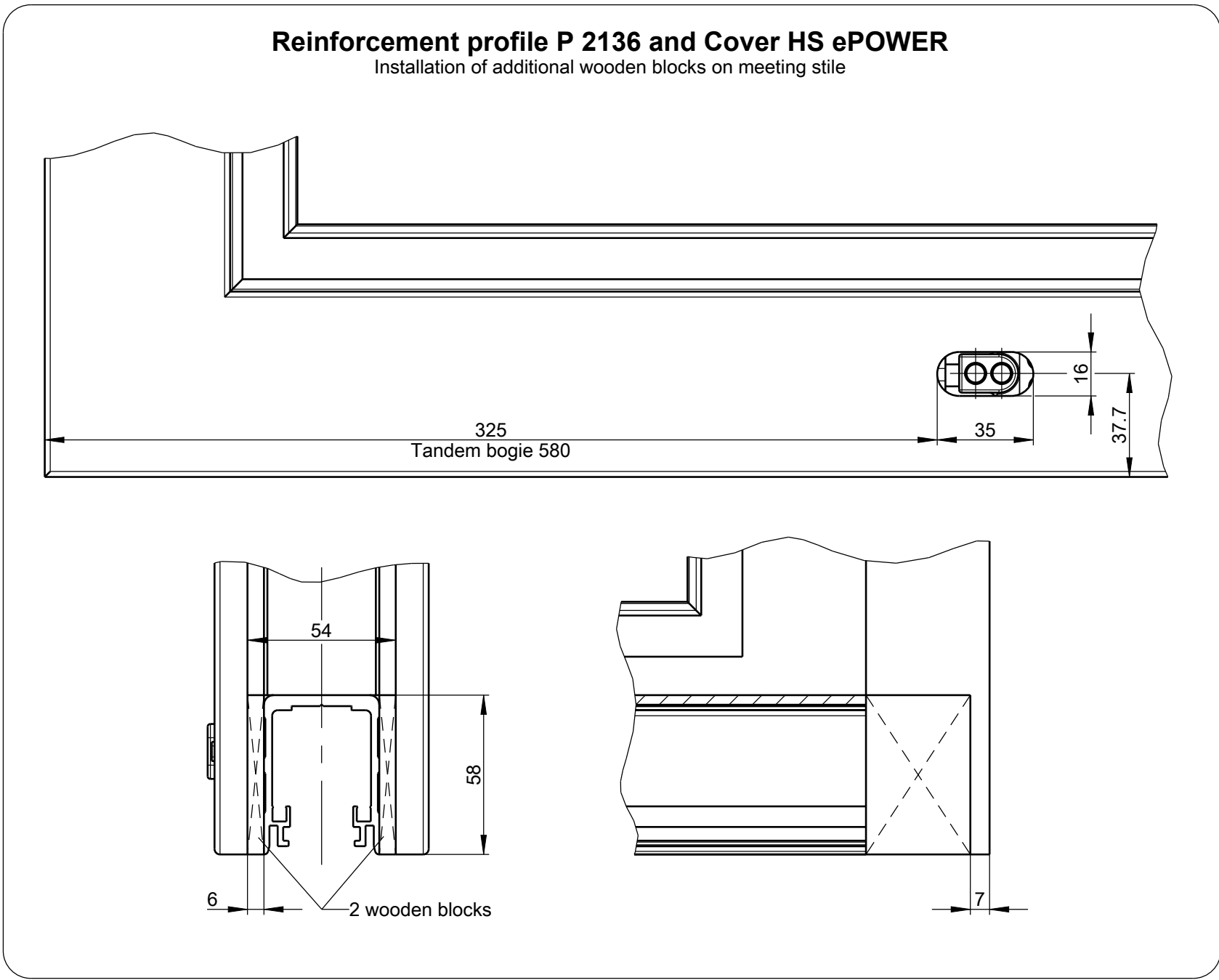
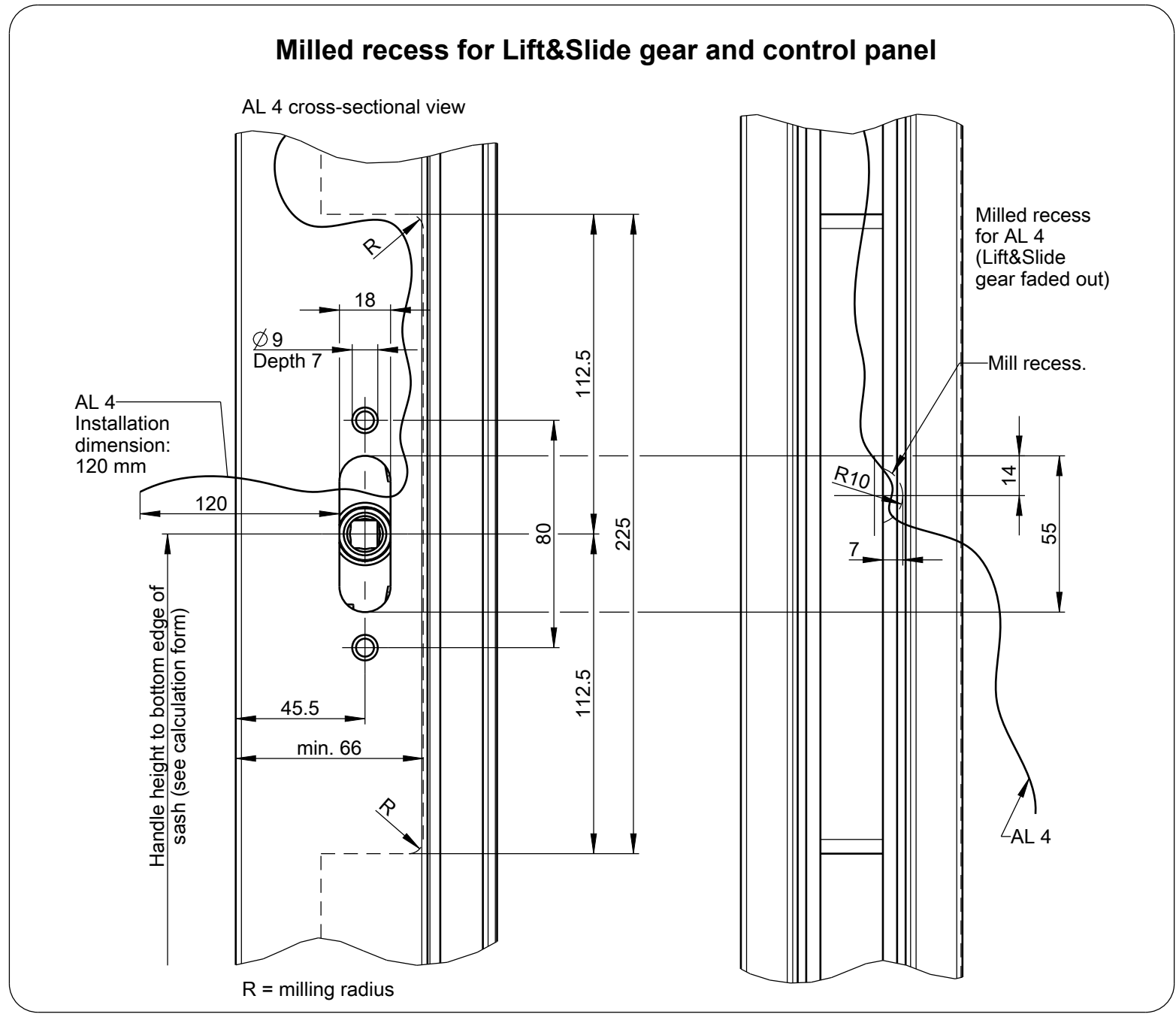
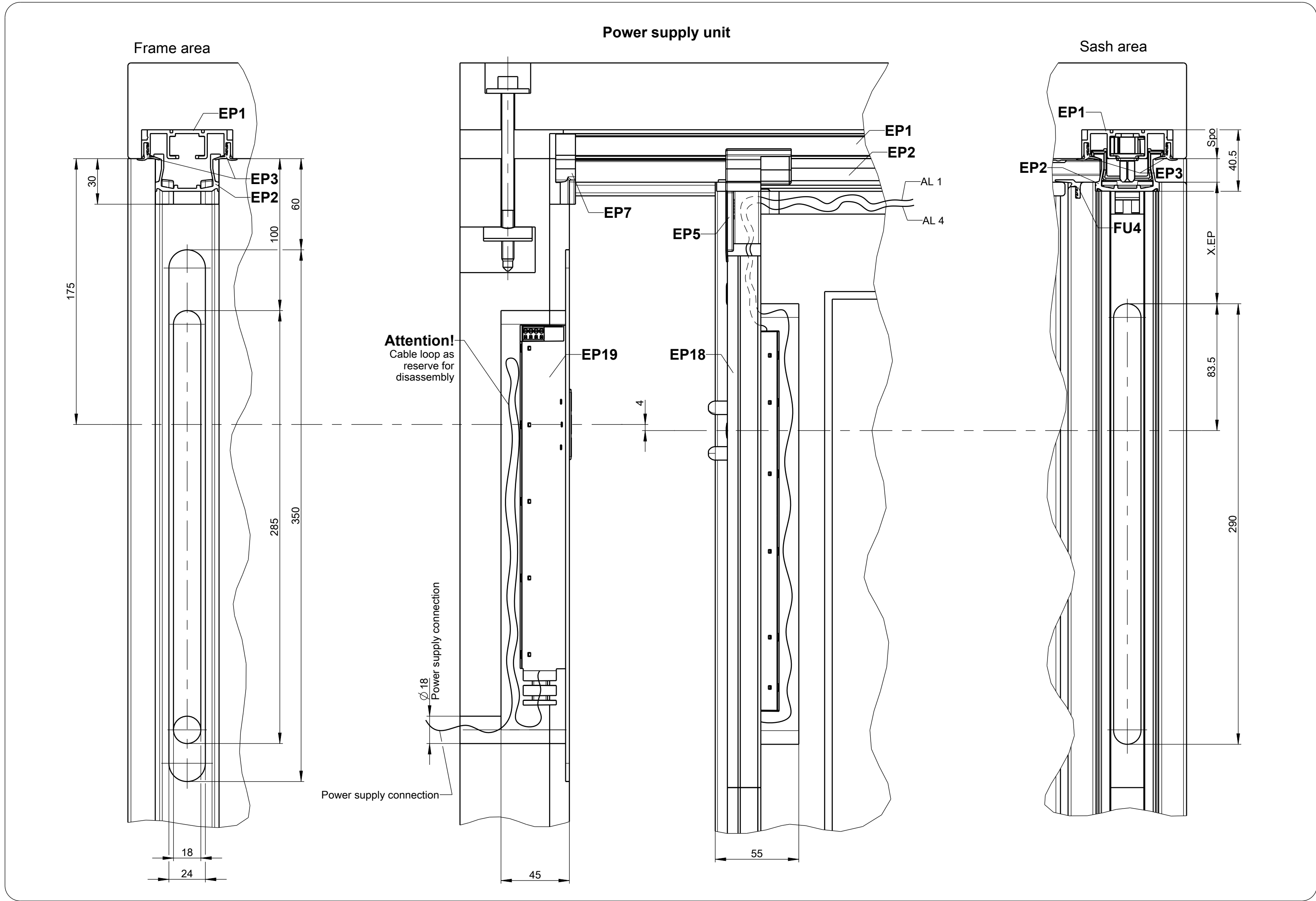
FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FB	Sash width
FH	Sash height
FG	Sash weight

HS ePOWER









FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
Sp0	Gap at top
AL	Connecting cable

**HS ePOWER**  
**Milled recesses**

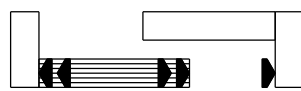
Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

GU	Date	Change No.	Sig	Ver.	Replacement for	Revision	Iteration	Level	Scale	Drawing No.	Size	Sheet
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Guide track P 1786

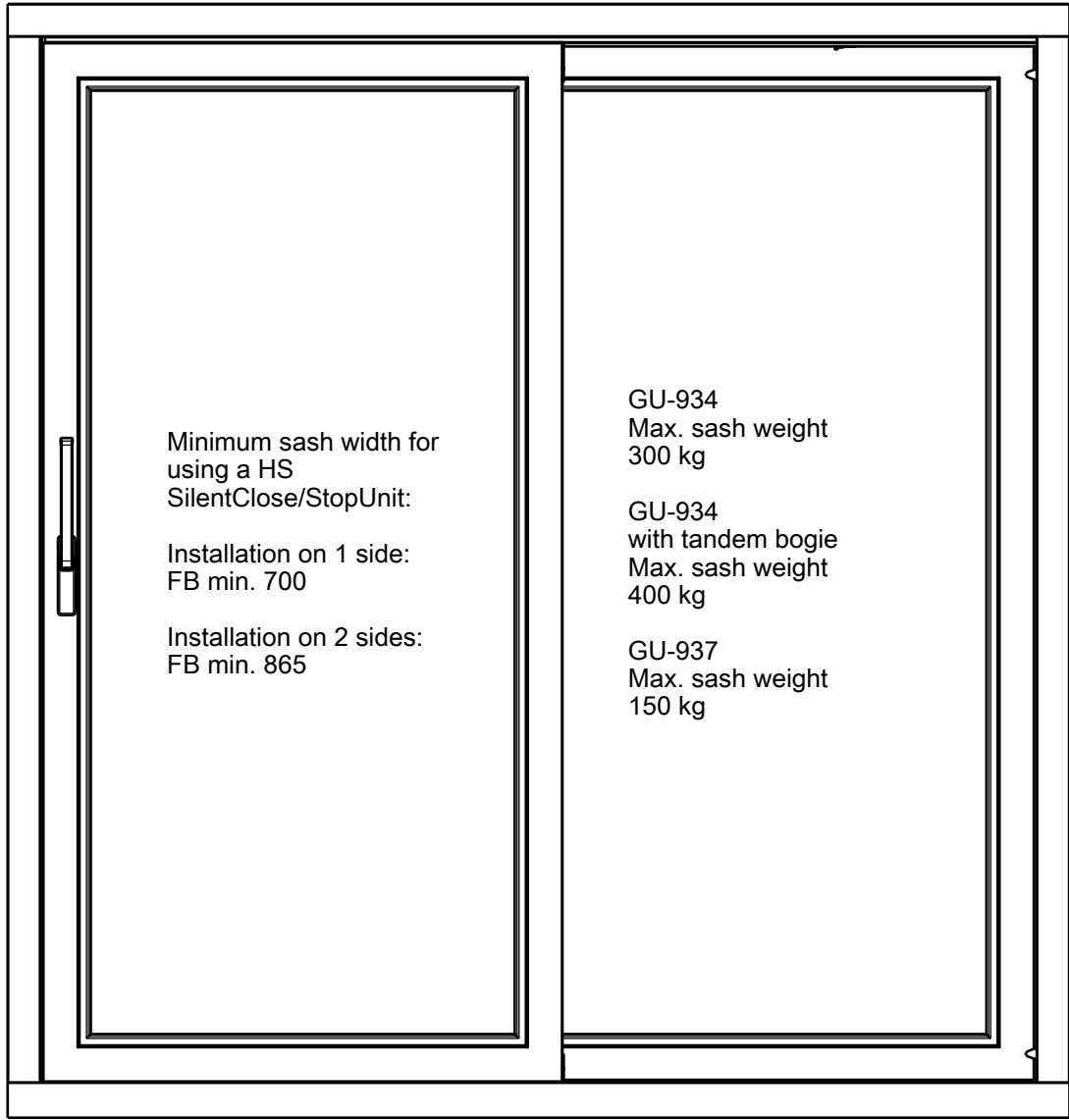
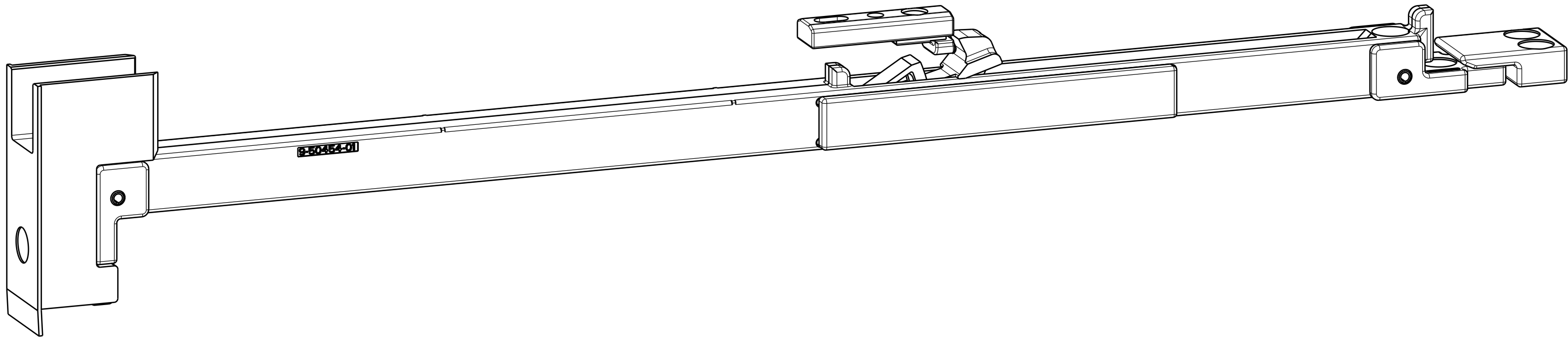
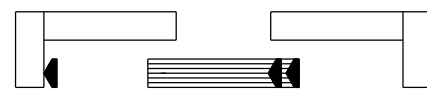
Pattern A



Pattern C

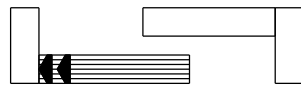


Pattern G1

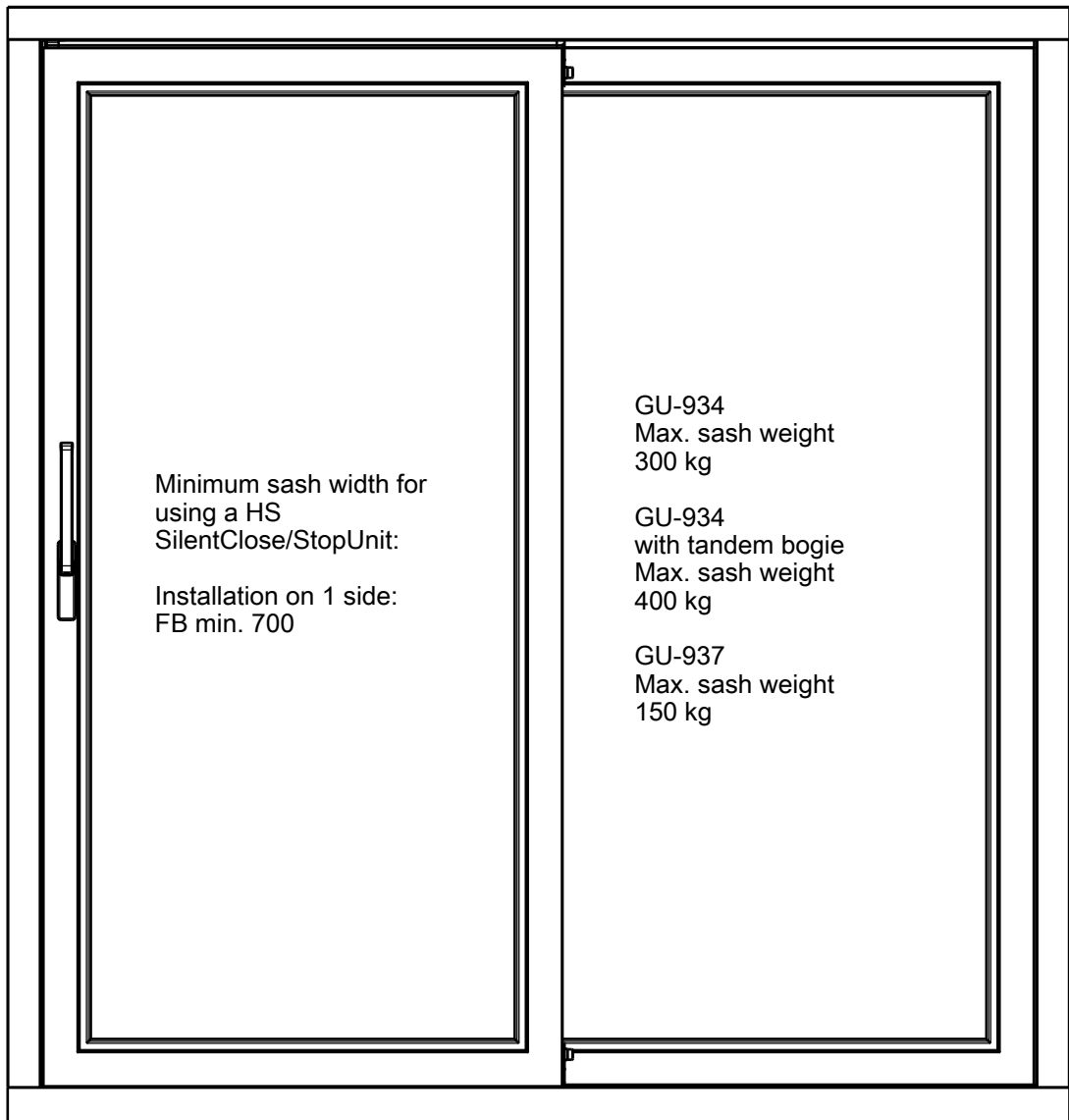
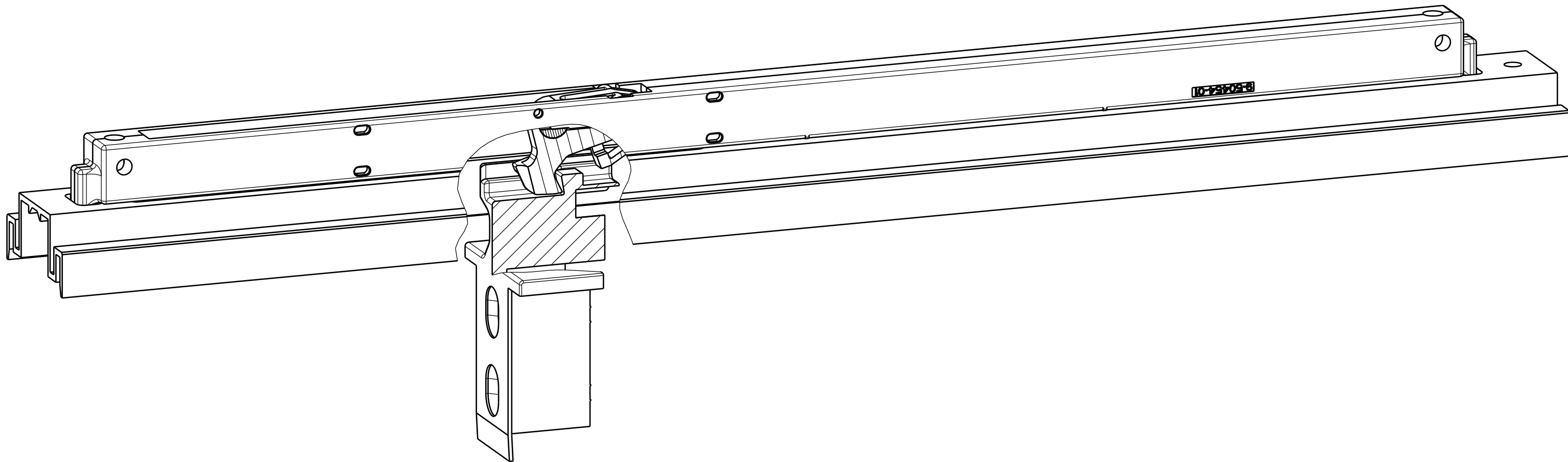


Guide track P 1850

Pattern A



Pattern C



P 1786 Application range:

Sash width FB	Installation on 1 side: min. 700 mm	max. 3300 mm
Sash height FH	Installation on 2 sides: min. 865 mm	max. 3300 mm
Sash weight FG	min. 850 mm	max. 3250 mm
		max. 400 kg

The sash height must not exceed 2.5 times the sash width.

P 1850 Application range:

Sash width FB	Installation on 1 side: min. 700 mm	max. 3300 mm
Sash height FH	min. 850 mm	max. 3250 mm
Sash weight FG		max. 400 kg

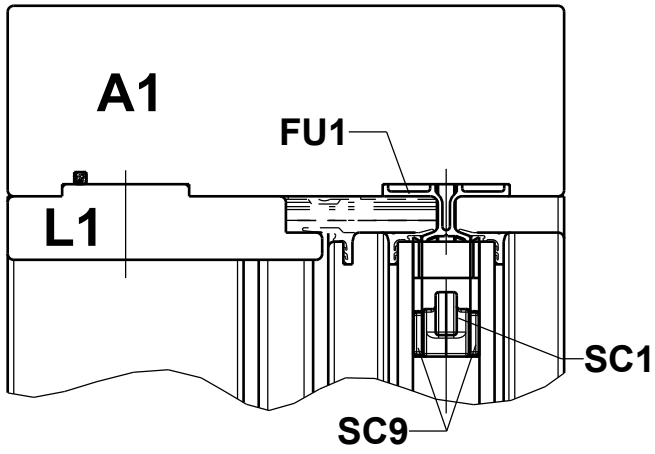
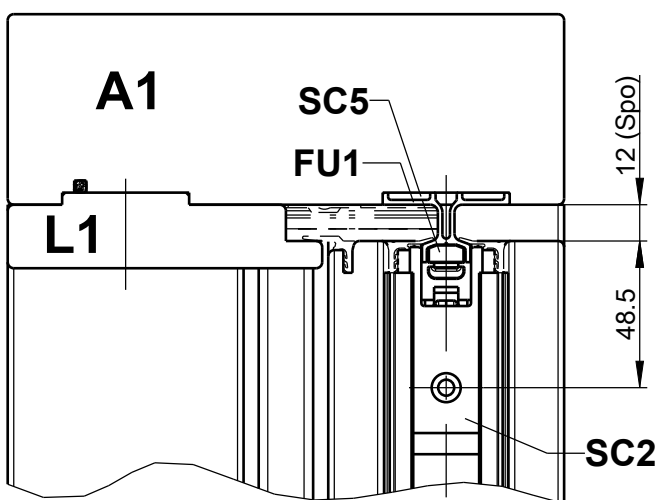
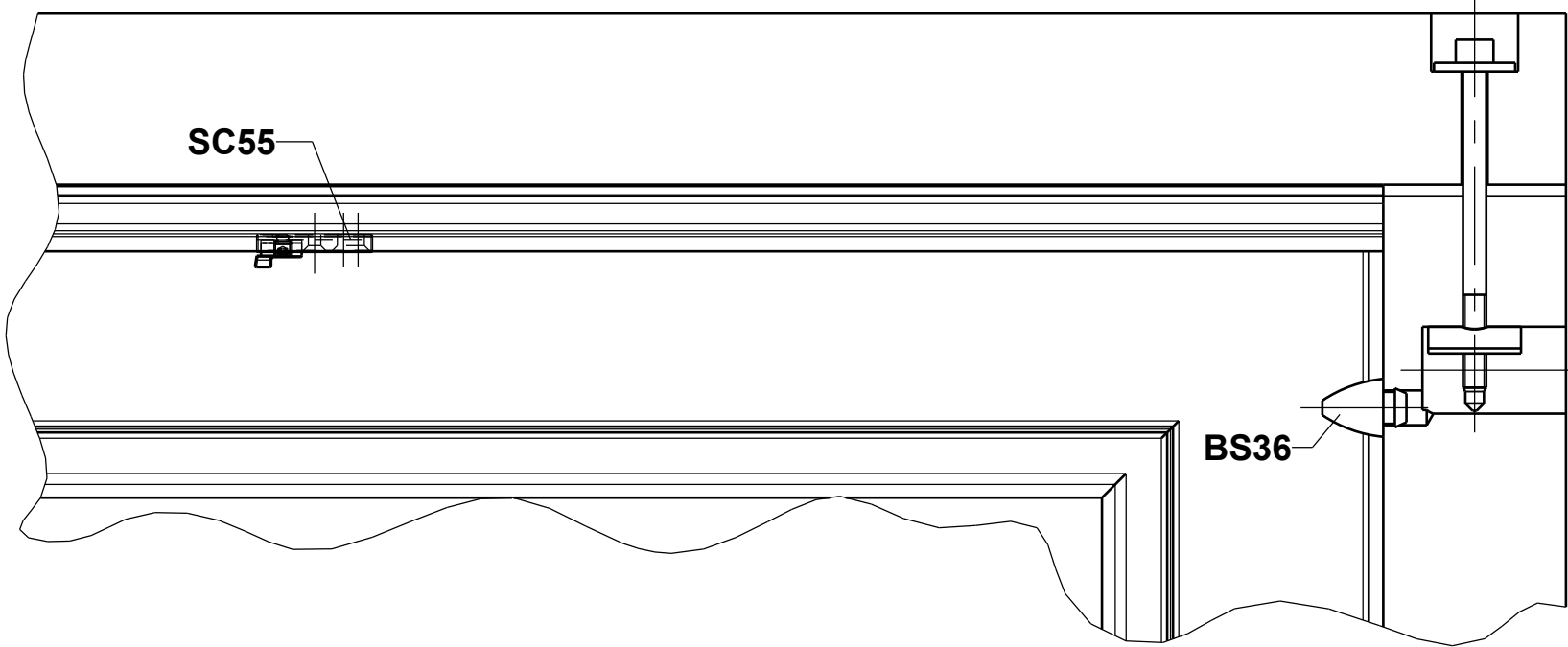
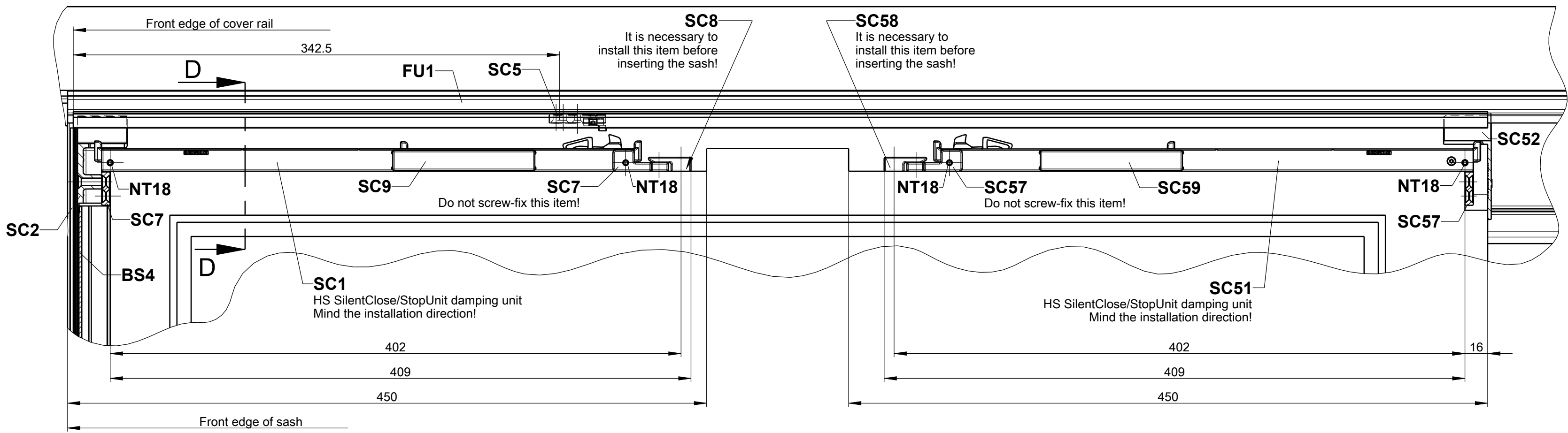
The sash height must not exceed 2.5 times the sash width.

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FB	Sash width
FH	Sash height
FG	Sash weight

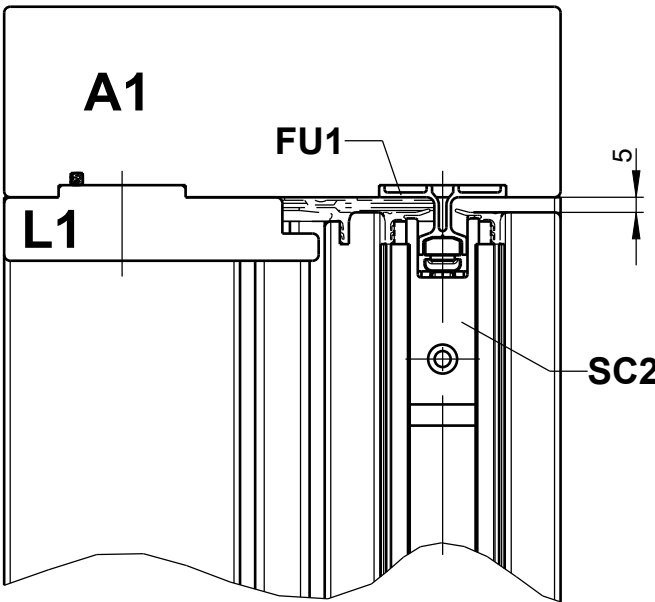
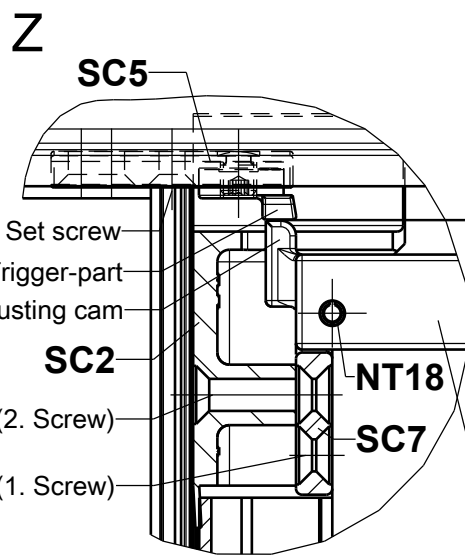
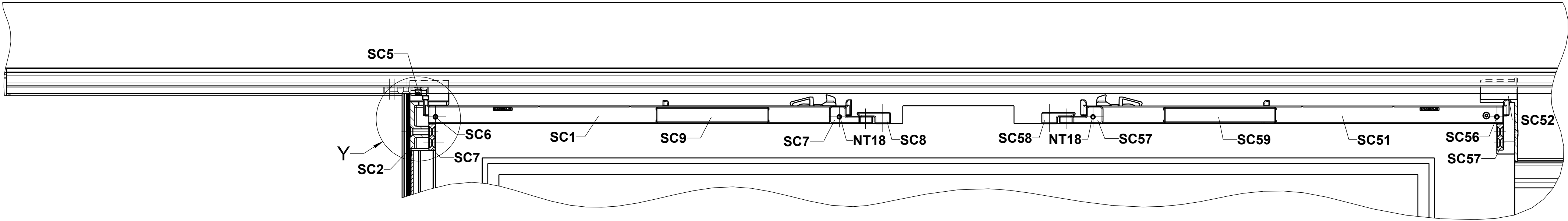
HS SilentClose /  
HS StopUnit



Pattern A / Pattern C  
Drawing shows: Sash lowered and closed

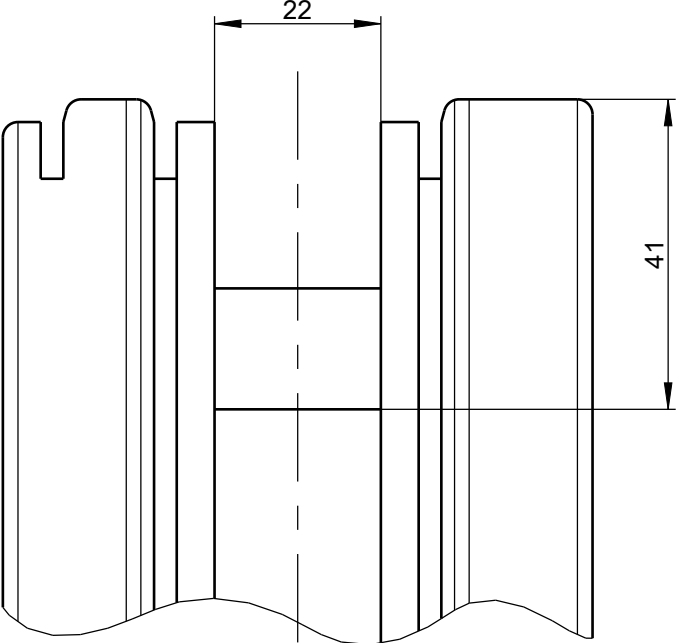


Drawing shows: Sash lifted and opened

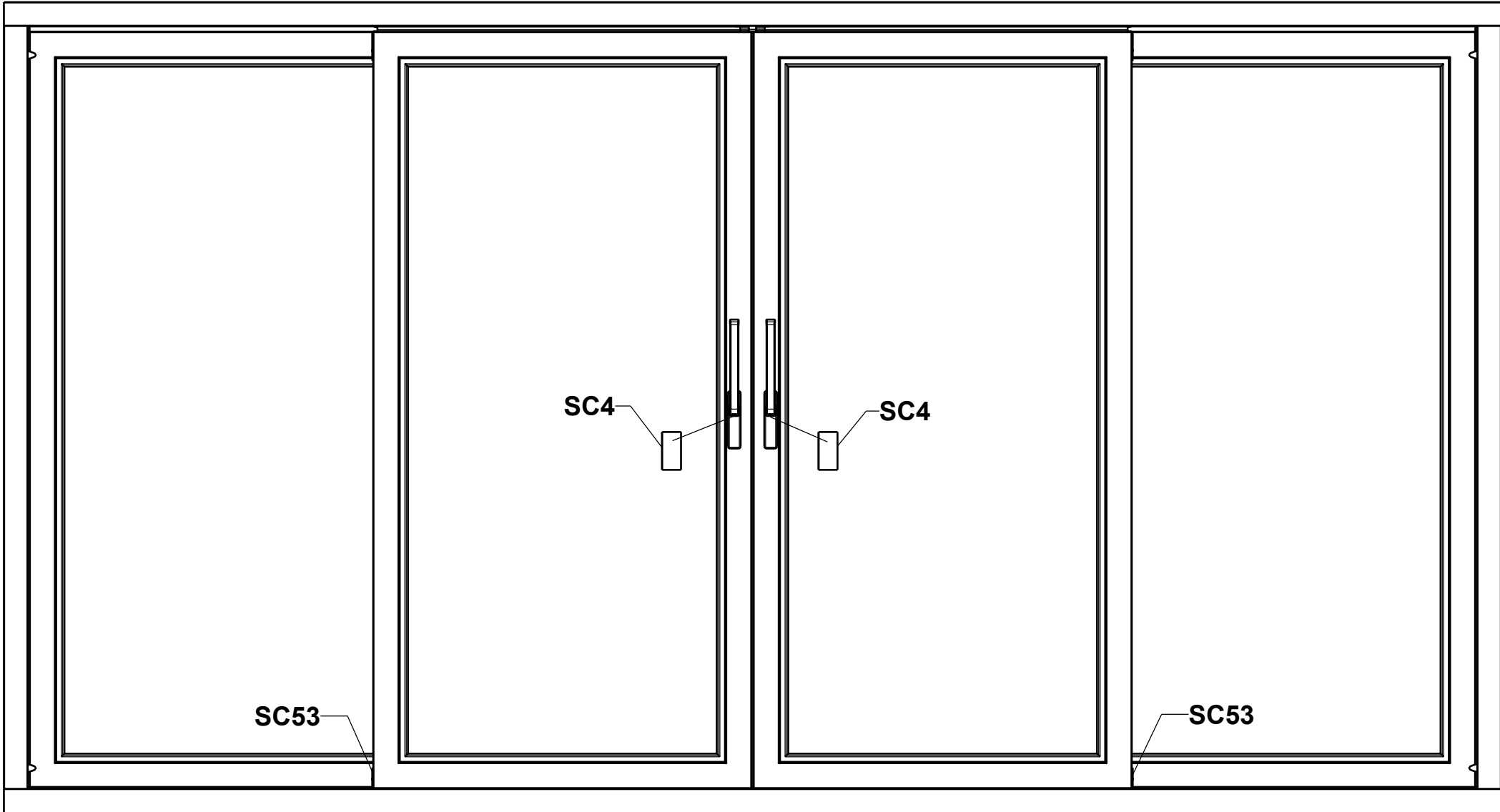
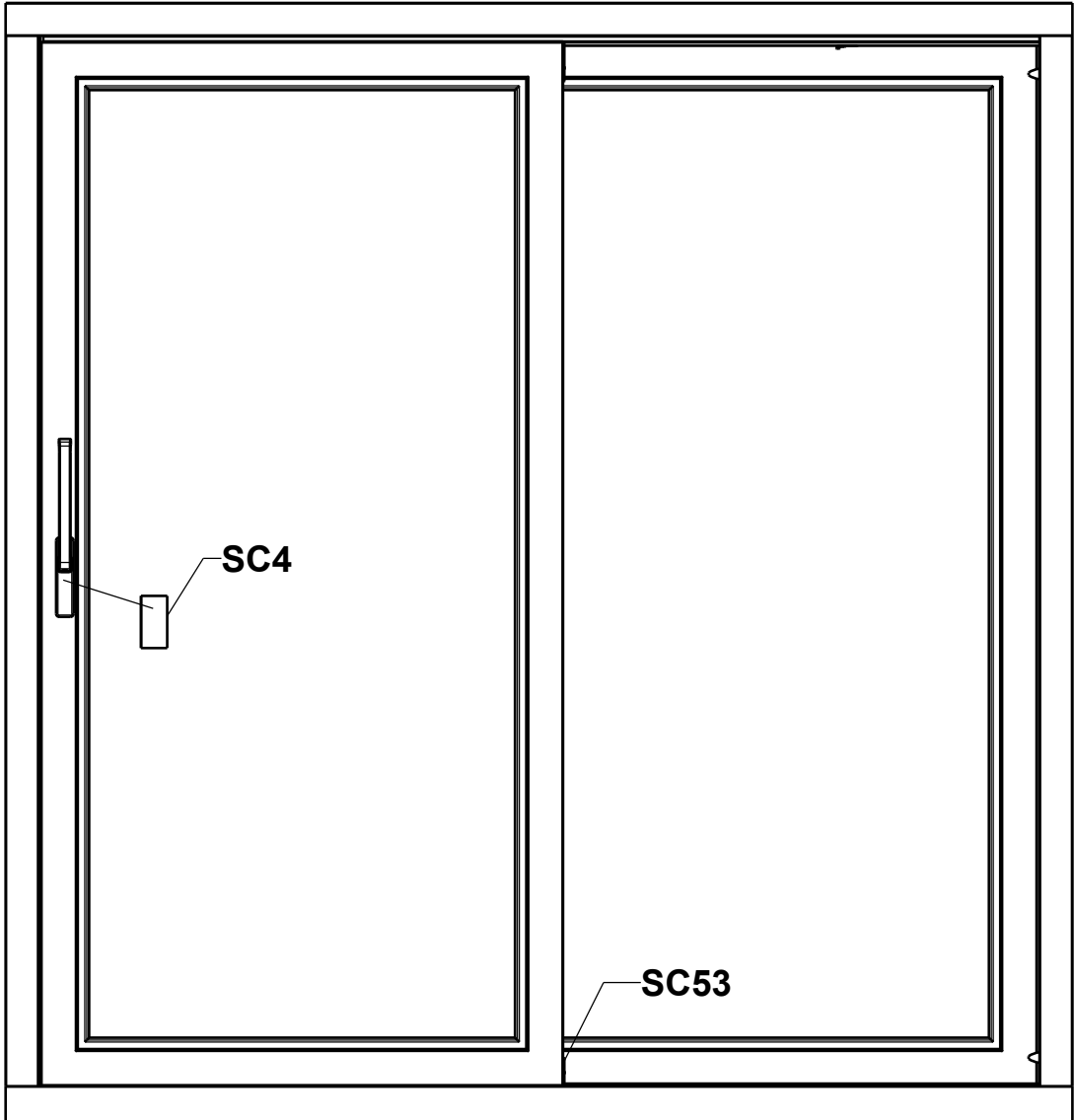
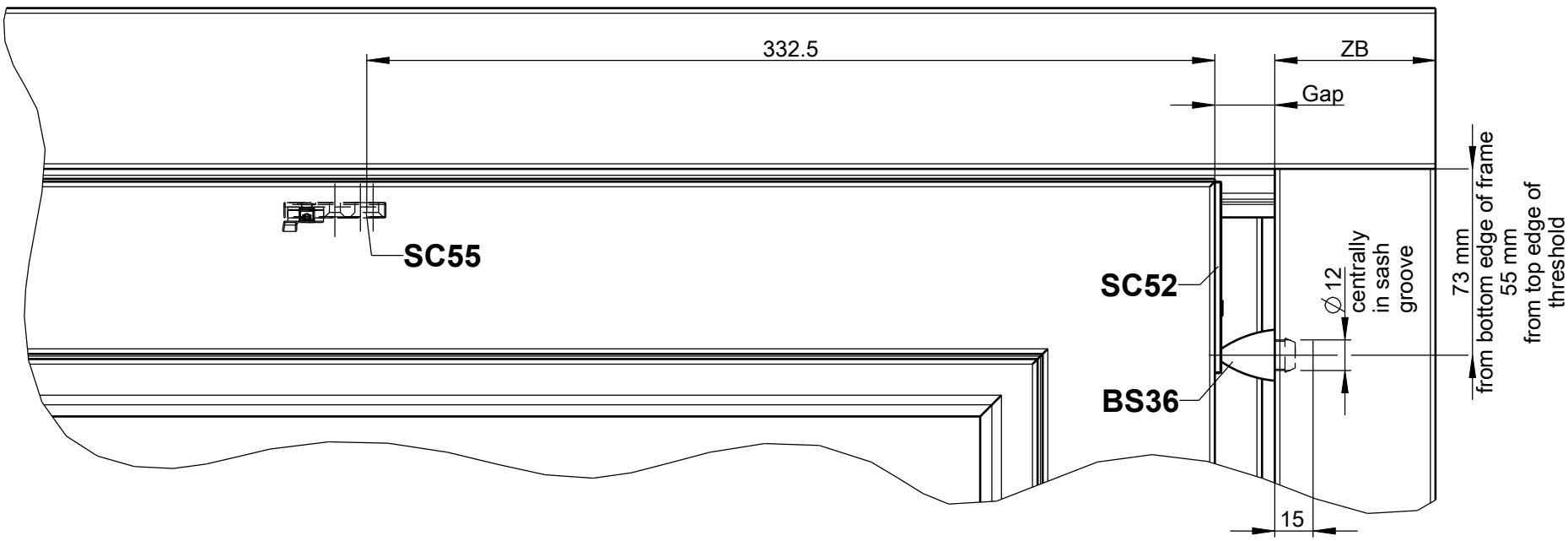
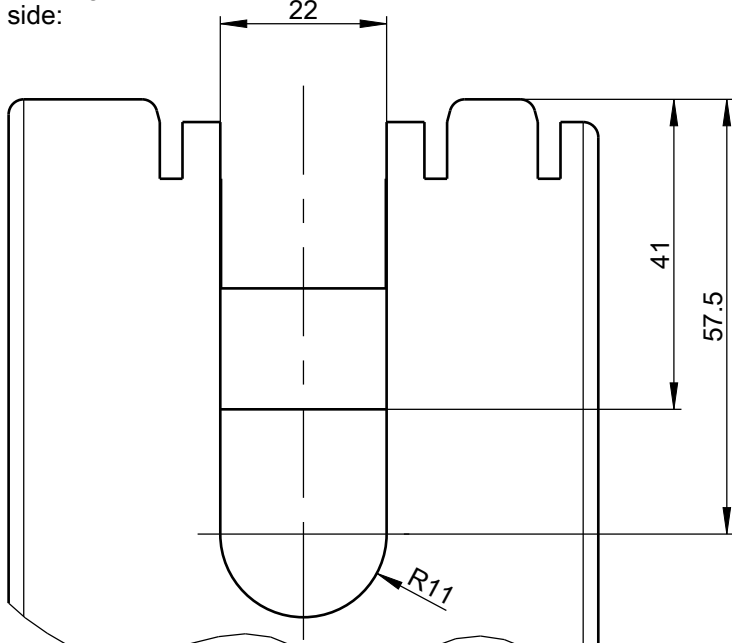


Machining of upper sash groove for HS SilentClose/StopUnit  
No continuous groove!

Gear side:



Meeting-stile side:



Installation on drive-gear side		
Spax or similar	Screws required for items	Qty. per HS SilentClose/StopUnit
5 x 45	SC2	1
5 x 30	SC7	1
5 x 30	SC8	2
4 x 50	SC5	2
Installation on meeting-stile side		
Spax or similar	Screws required for items	Qty. per HS SilentClose/StopUnit
4 x 16	SC52	4
5 x 30	SC57, SC58	4
4 x 50	SC55	2

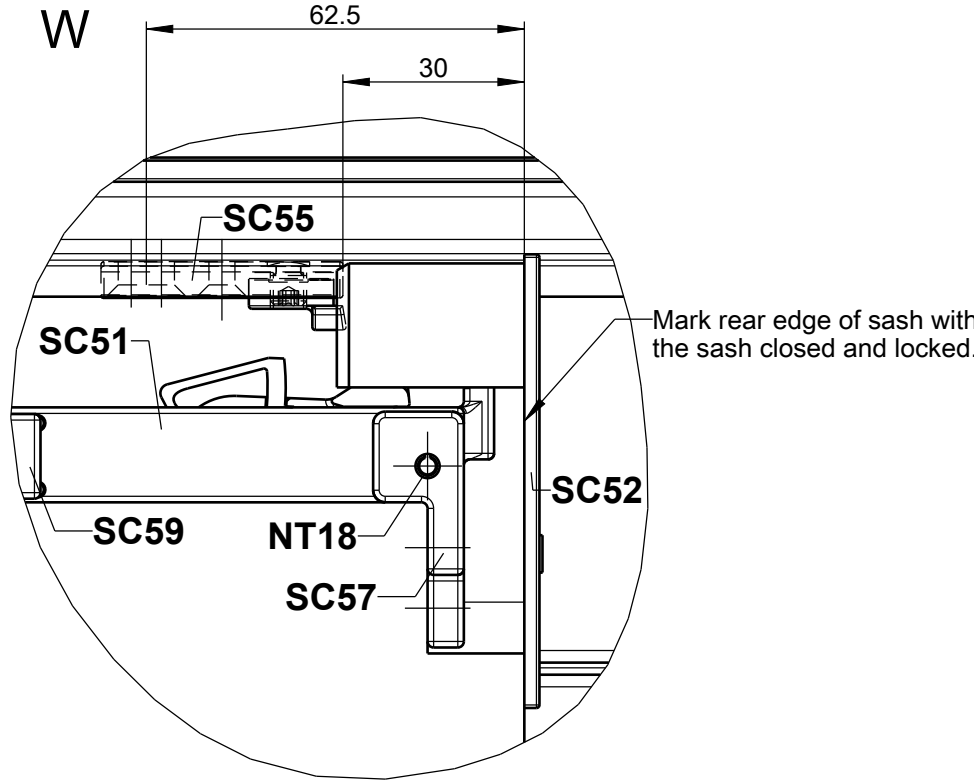
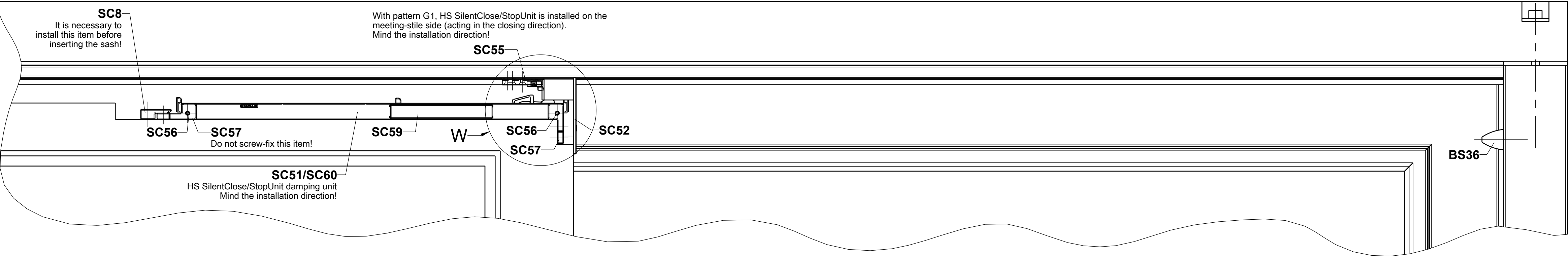
The specified fixing screws are a recommendation based on our experience.  
The responsibility for durable and secure hardware fixing lies with the fabricator!

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
L.BS4	Length of Lift&Slide gear
SF1	Shadow gap 1
Spo	Gap at top

HS SilentClose /  
HS StopUnit, P 1786  
Pattern A / Pattern C

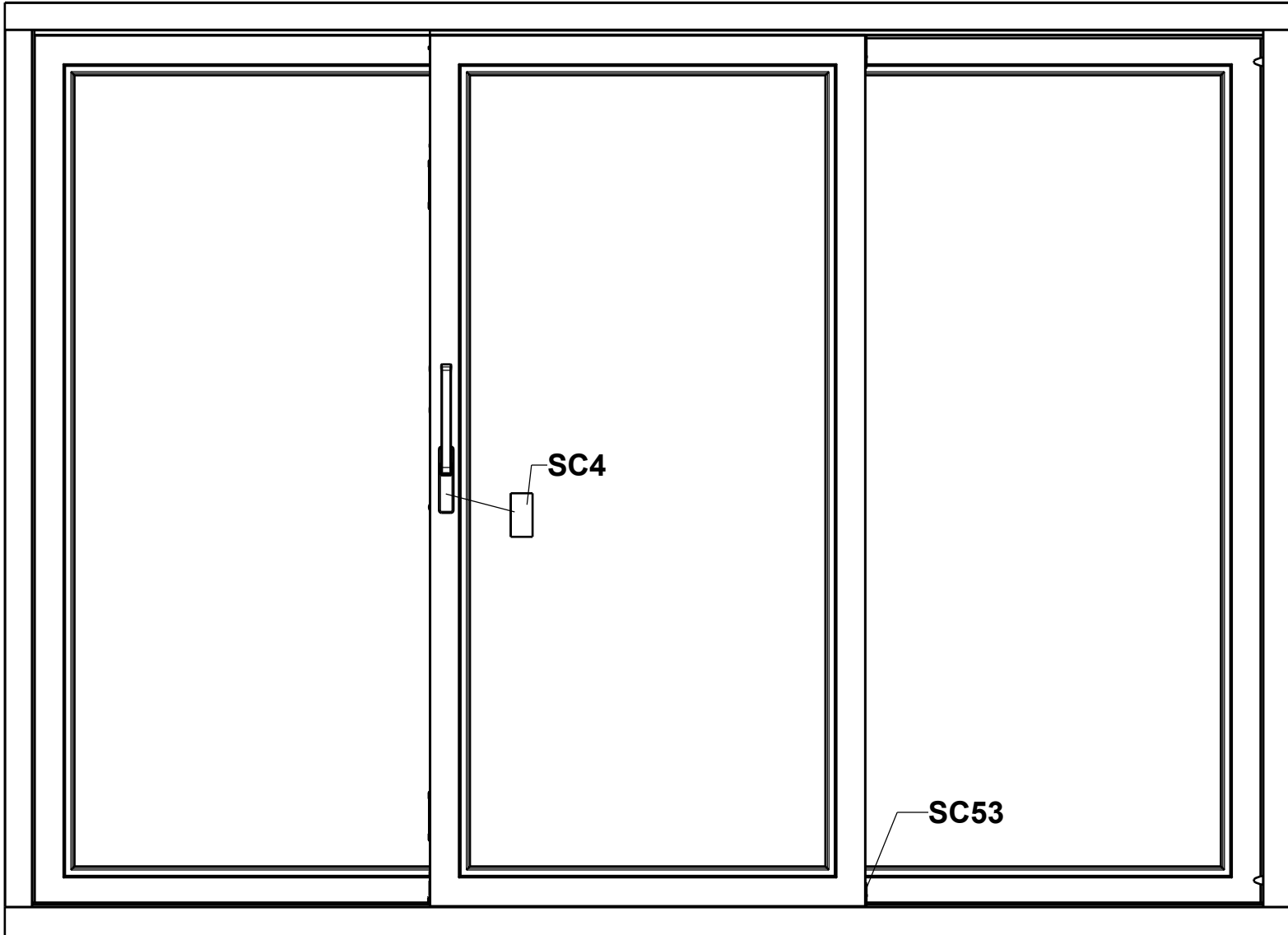
Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68



The documents accompanying the product were issued when the product was manufactured. You should verify at www.gu.com if the technical documents you have at hand are up to date. We want to use the latest edition of our technical documents.

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Installation on meeting-stile side		
Spax or similar	Screws required for items	Qty. per HS SilentClose/StopUnit
4 x 16	SC52	4
5 x 30	SC57, SC58	4
4 x 50	SC55	2

The specified fixing screws are a recommendation based on our experience. The responsibility for durable and secure hardware fixing lies with the fabricator!

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width

HS SilentClose /  
HS StopUnit, P 1786  
Pattern G1

Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

GU	Date	Change No.	Sig	Ver.	Replacement for	Revision	Iteration	Level	Scale	Drawing No.	Size	Sheet
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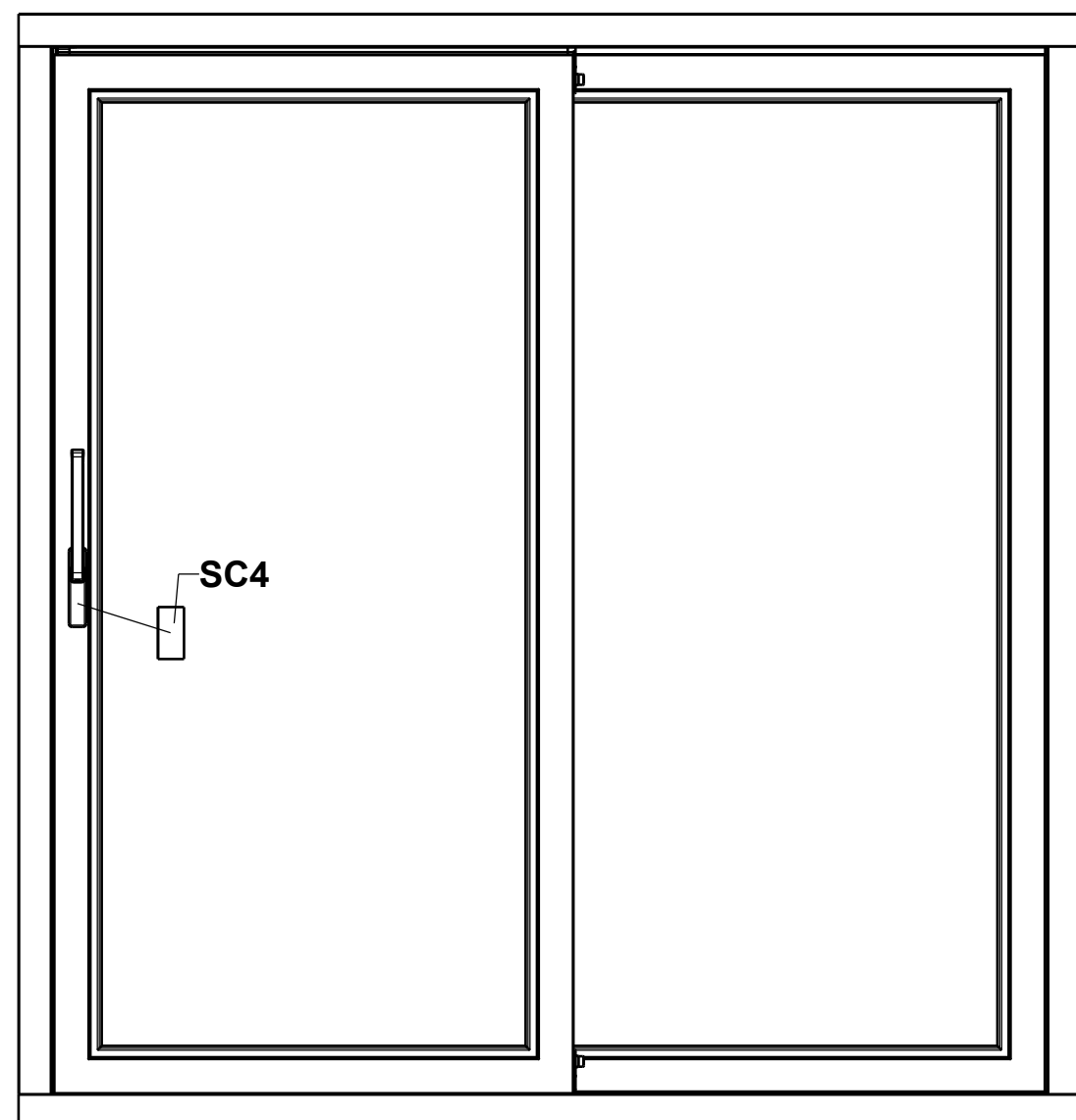
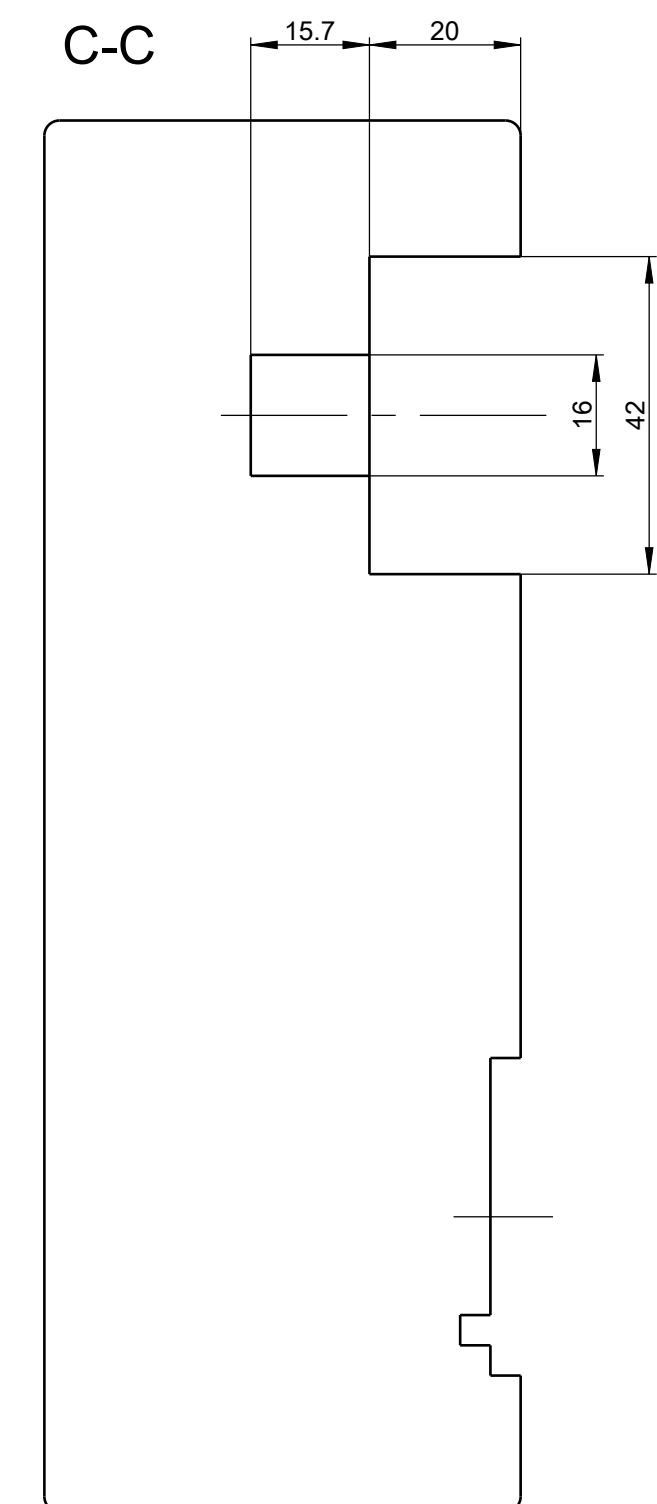
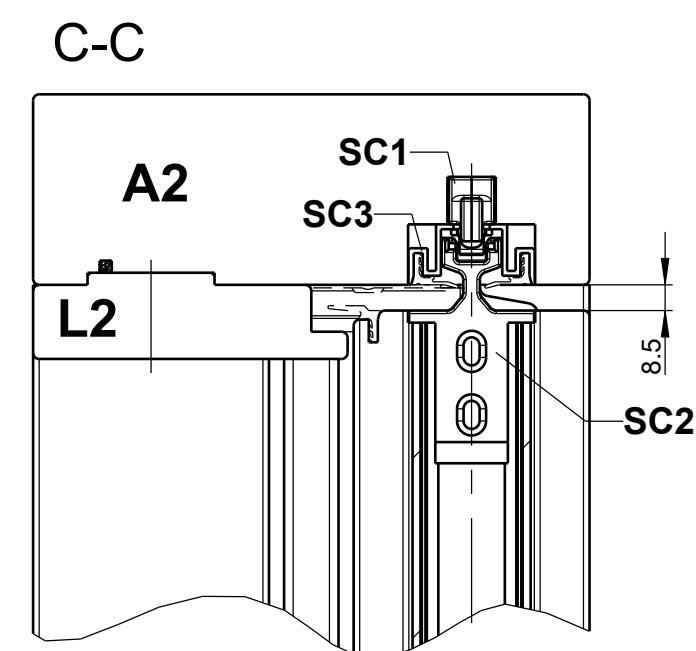
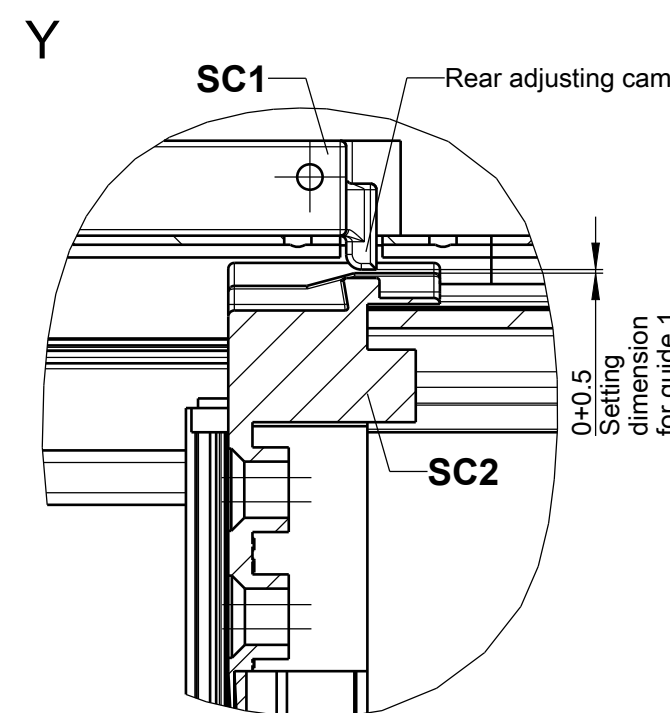
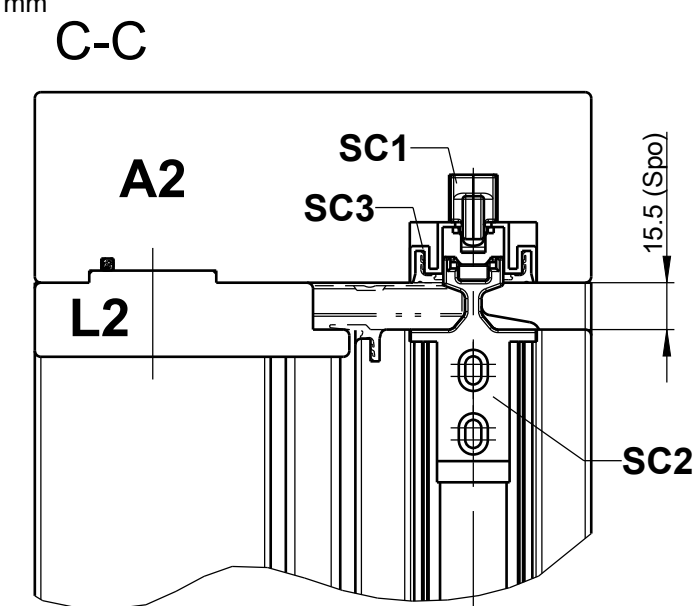
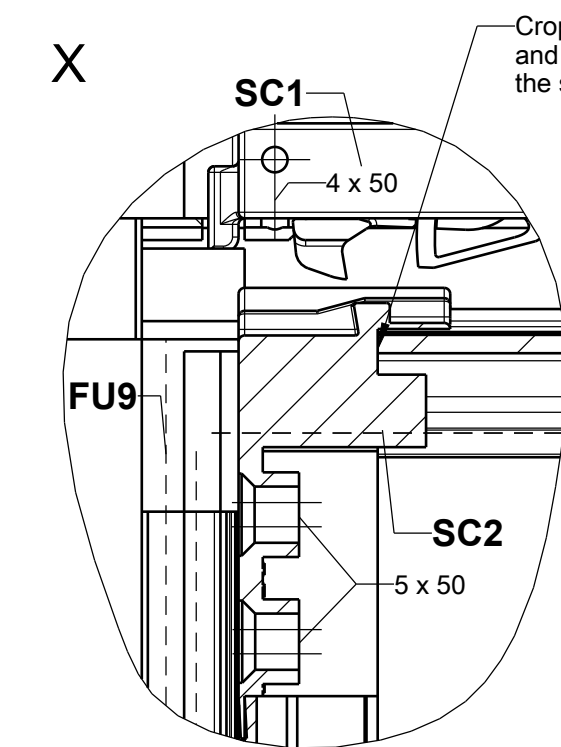
Technical drawing of the HS SilentClose/StopUnit, showing side and front views with dimensions and labels.

**Dimensions:**

- 415
- ZB + 18
- ZB + 11
- 377
- L.FU1

**Labels and Components:**

- C**: Arrow indicating installation direction.
- SC3**: Component label.
- FU1**: Component label.
- SC1**: HS SilentClose/StopUnit damping unit. Mind the installation direction!
- FU2**: Component label.
- SC2**: Component label.
- BS4**: Component label.
- Sf1**: Component label.
- SC52**: Component label.
- BS52**: Component label.
- X**: Arrow indicating installation direction.
- Machining of groove for HS SilentClose/StopUnit**: Description of the groove.



Installation on drive-gear side		
Spax or similar	Screws required for items	Qty. per HS SilentClose/StopUnit
5 x 50	SC2	2
4 x 50	SC3	2

The specified fixing screws are a recommendation based on our experience.  
The responsibility for durable and secure hardware fixing lies with the fabricator!

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
L.FU1	Length of guide track
L.BS4	Length of Lift&Slide gear
Sf1	Shadow gap 1
Spo	Gap at top

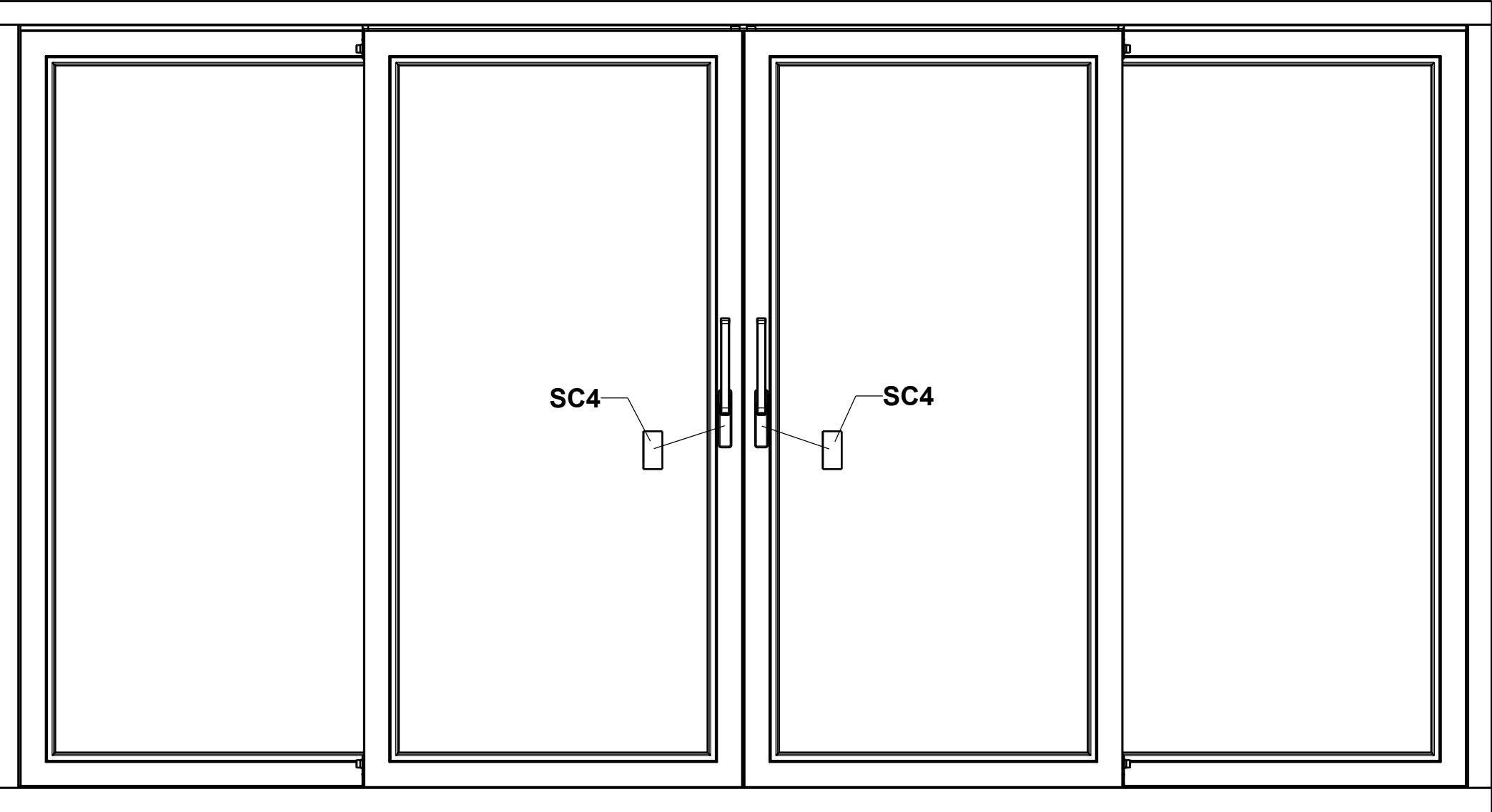
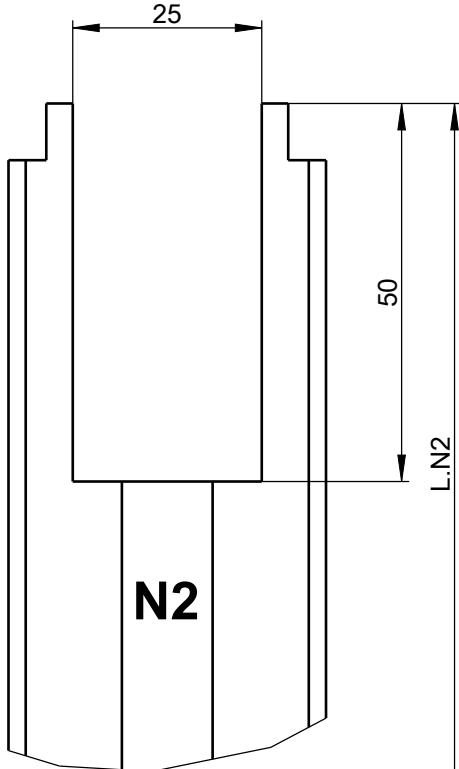
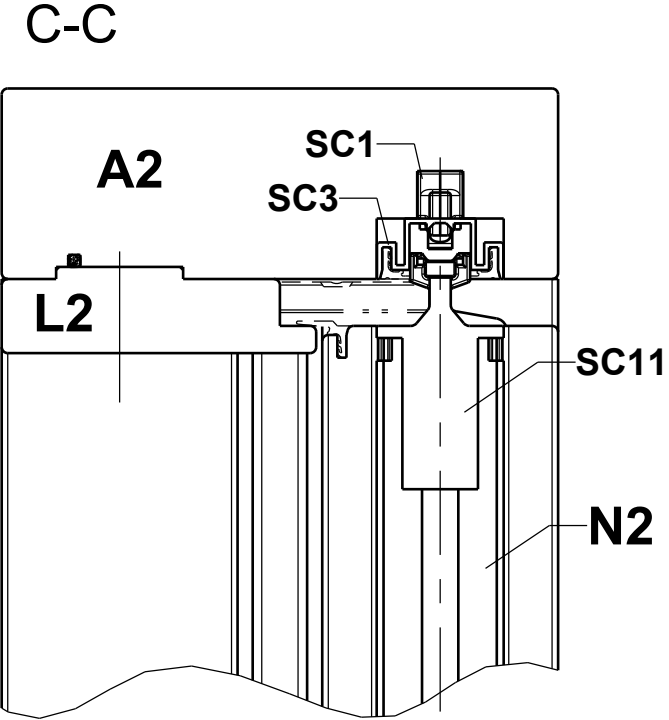
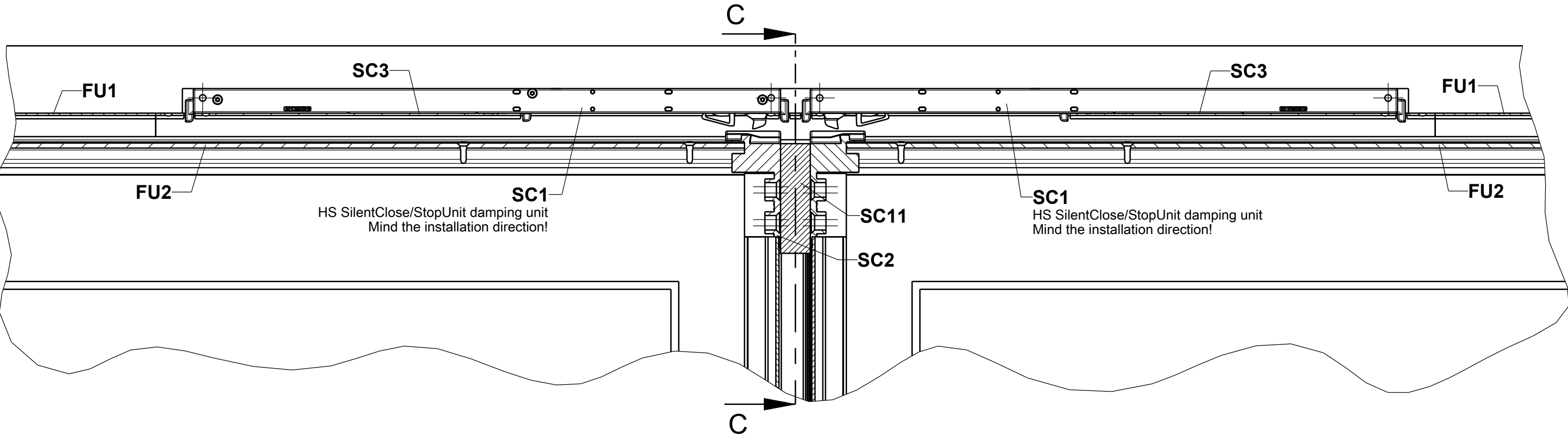
**HS SilentClose /  
HS StopUnit, P 1850  
Pattern A**

Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

<b>GU</b>	Date	Change No.	Sig	Ver.	Replacement for	Revision:	Iteration:	Level:	Scale	Drawing No.	Size
	19.11.2019	G34699	Mj	De	--	1	44	Released	%	0-48567-F-I-0-0	A1

Pattern C; Drawing shows: Sash lowered and closed



Installation on drive-gear side		
Spax or similar	Screws required for items	Qty. per HS SilentClose/StopUnit
5 x 50	SC2	2
4 x 50	SC3	2

The specified fixing screws are a recommendation based on our experience.  
The responsibility for durable and secure hardware fixing lies with the fabricator!

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
L.N2	Profile length N2

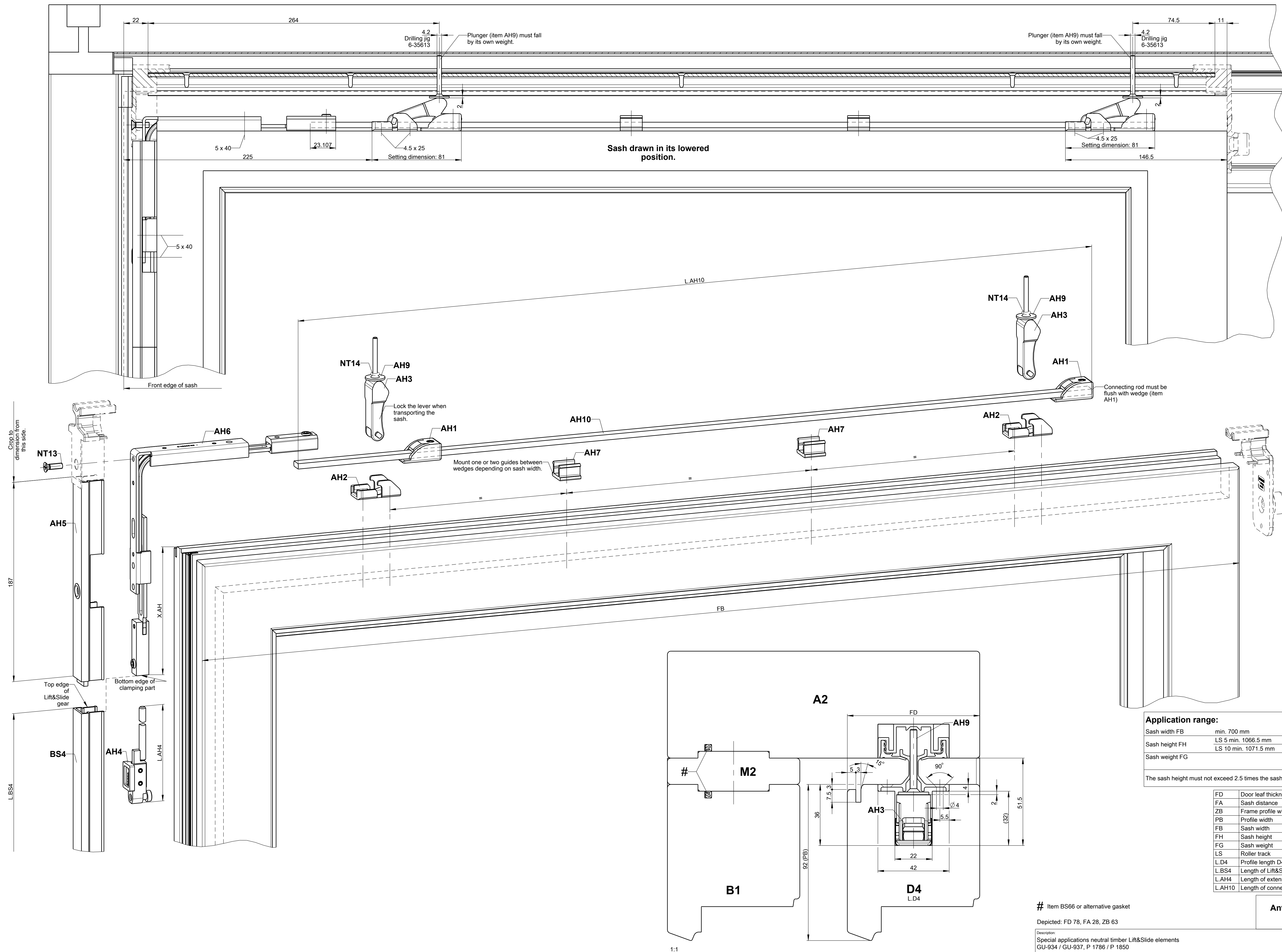
HS SilentClose /  
HS StopUnit, P 1850  
Pattern C

Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

GU	Date	Change No.	Sig	Ver.	Replacement for	Revision	Iteration	Level	Scale	Drawing No.	Size	Sheet
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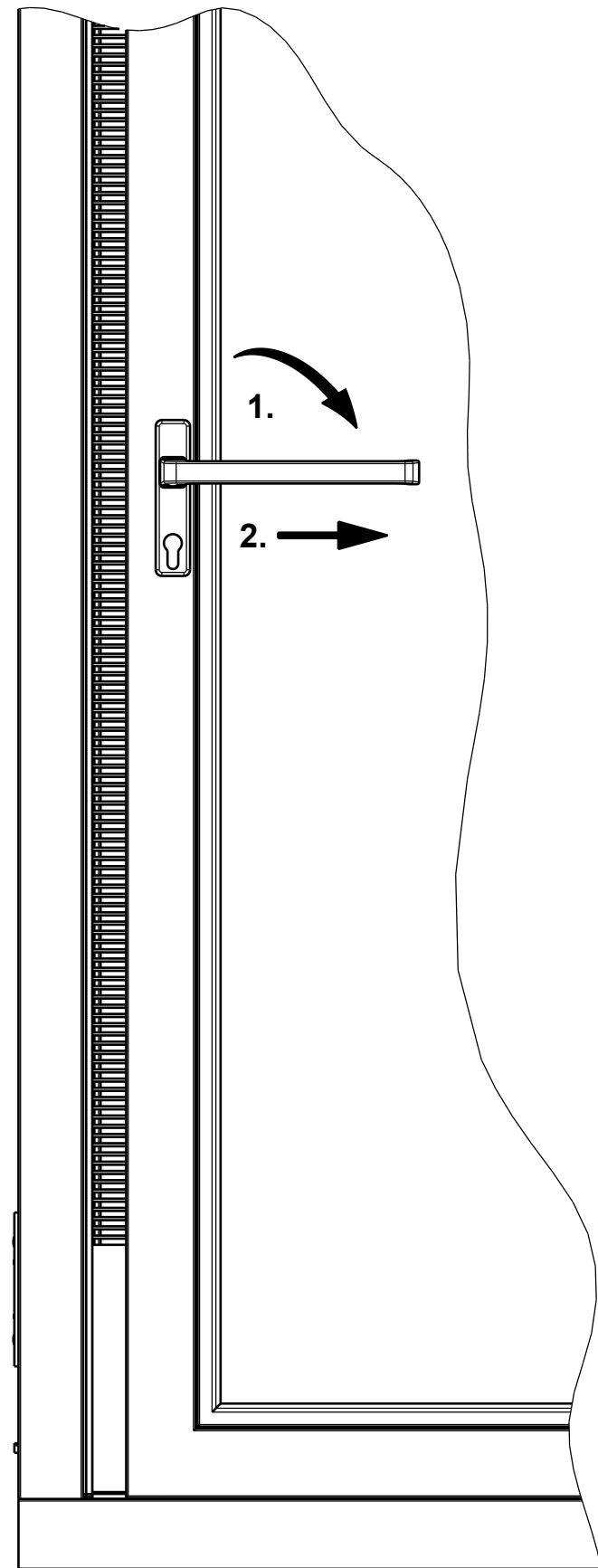
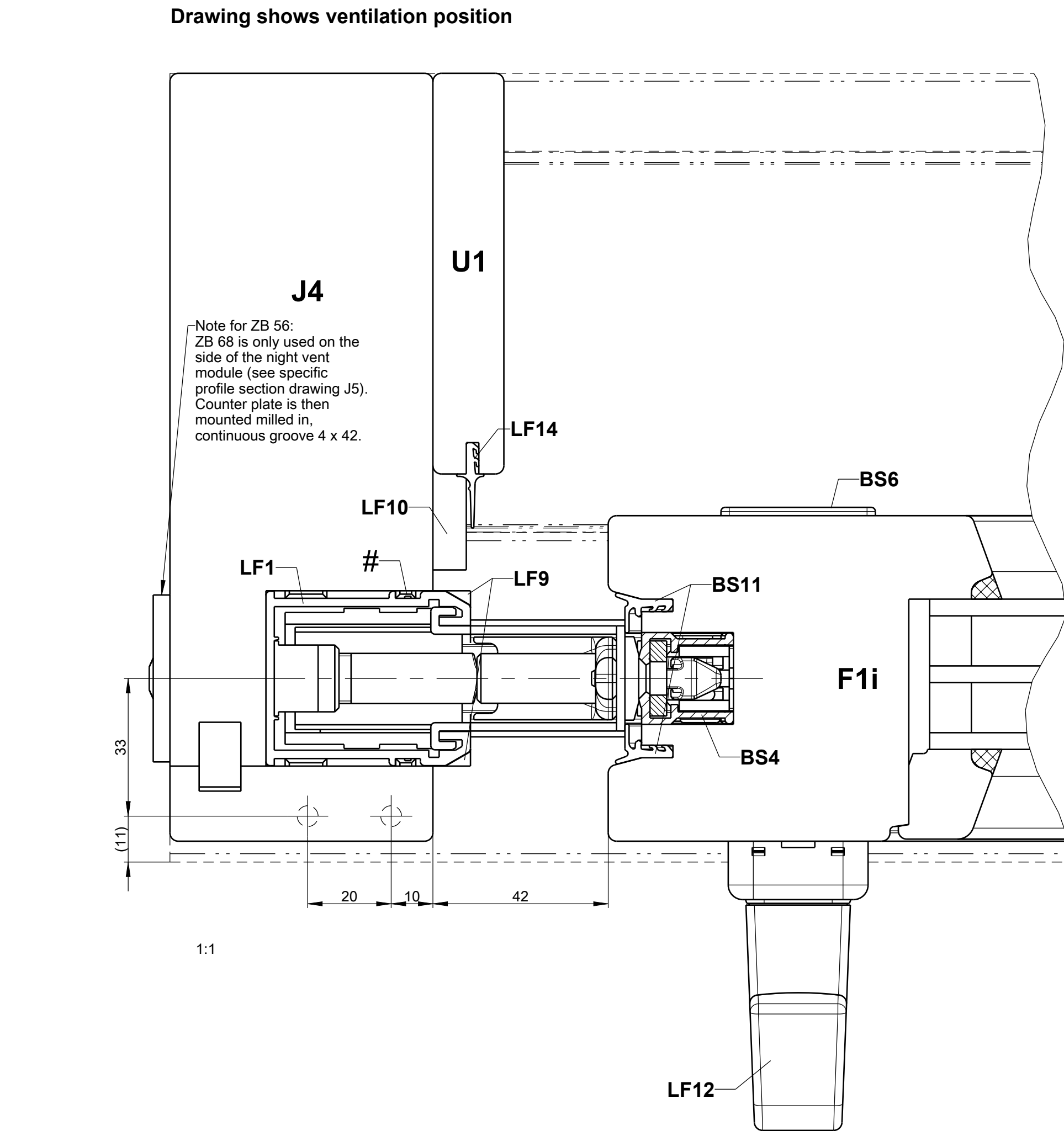
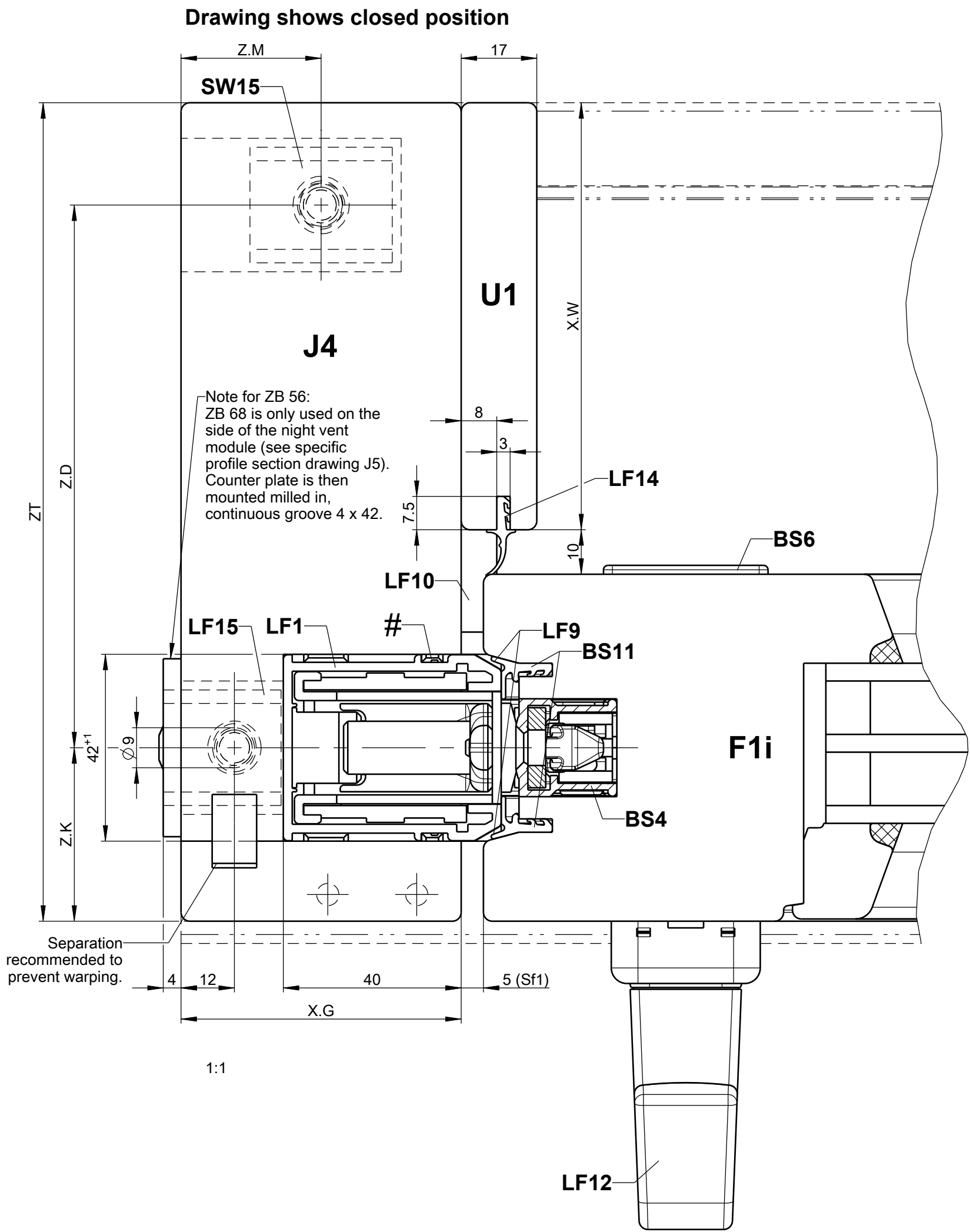
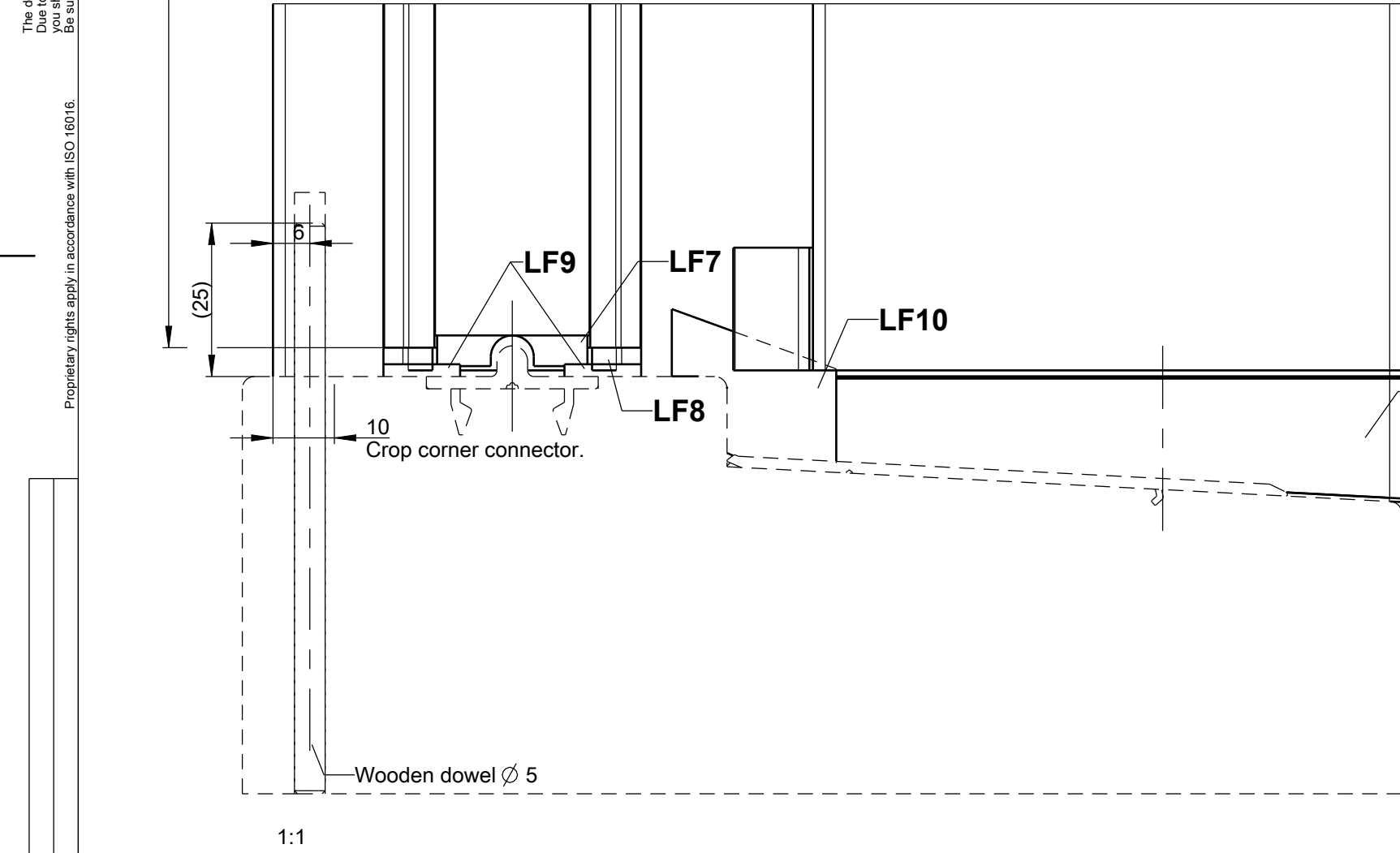
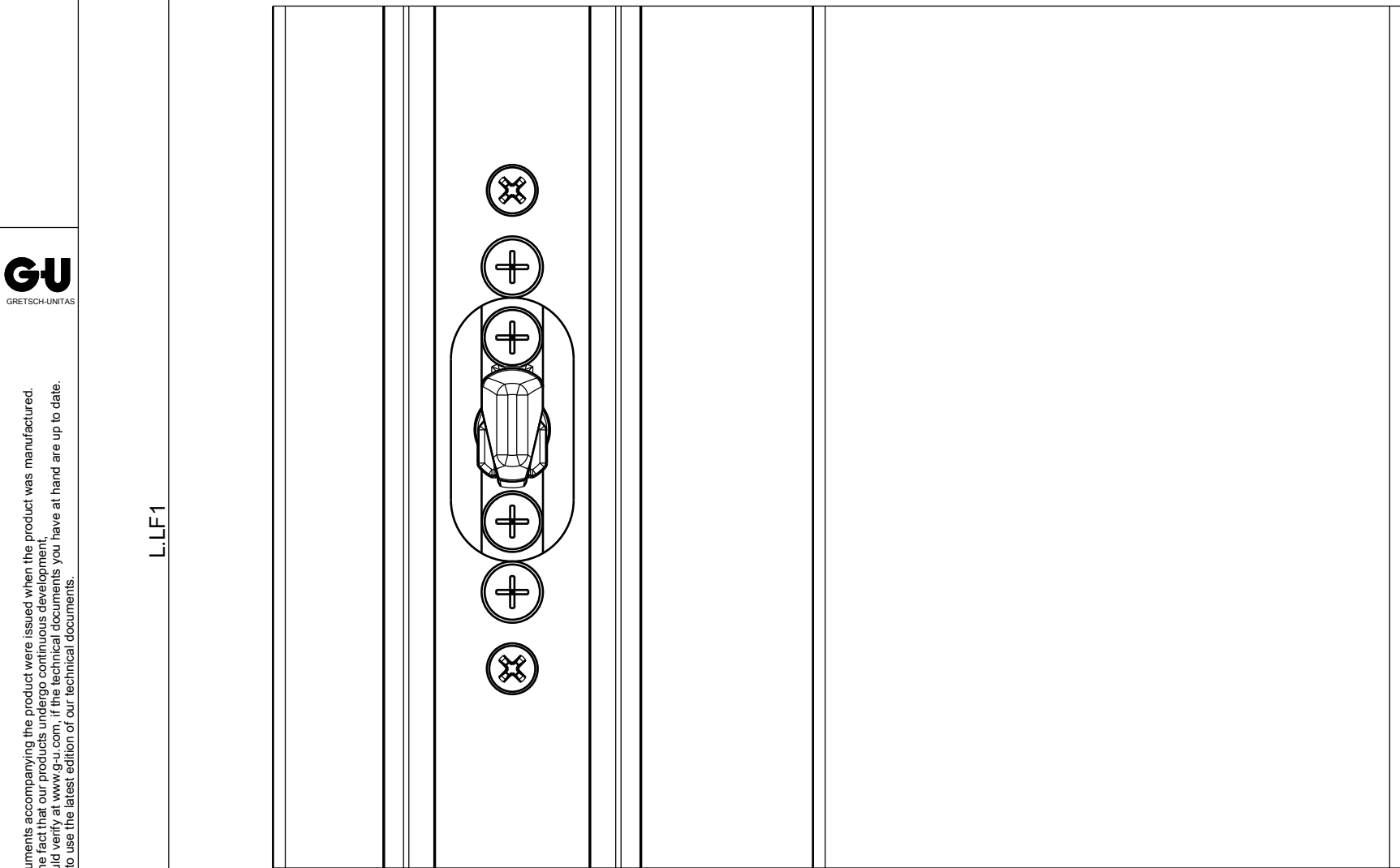
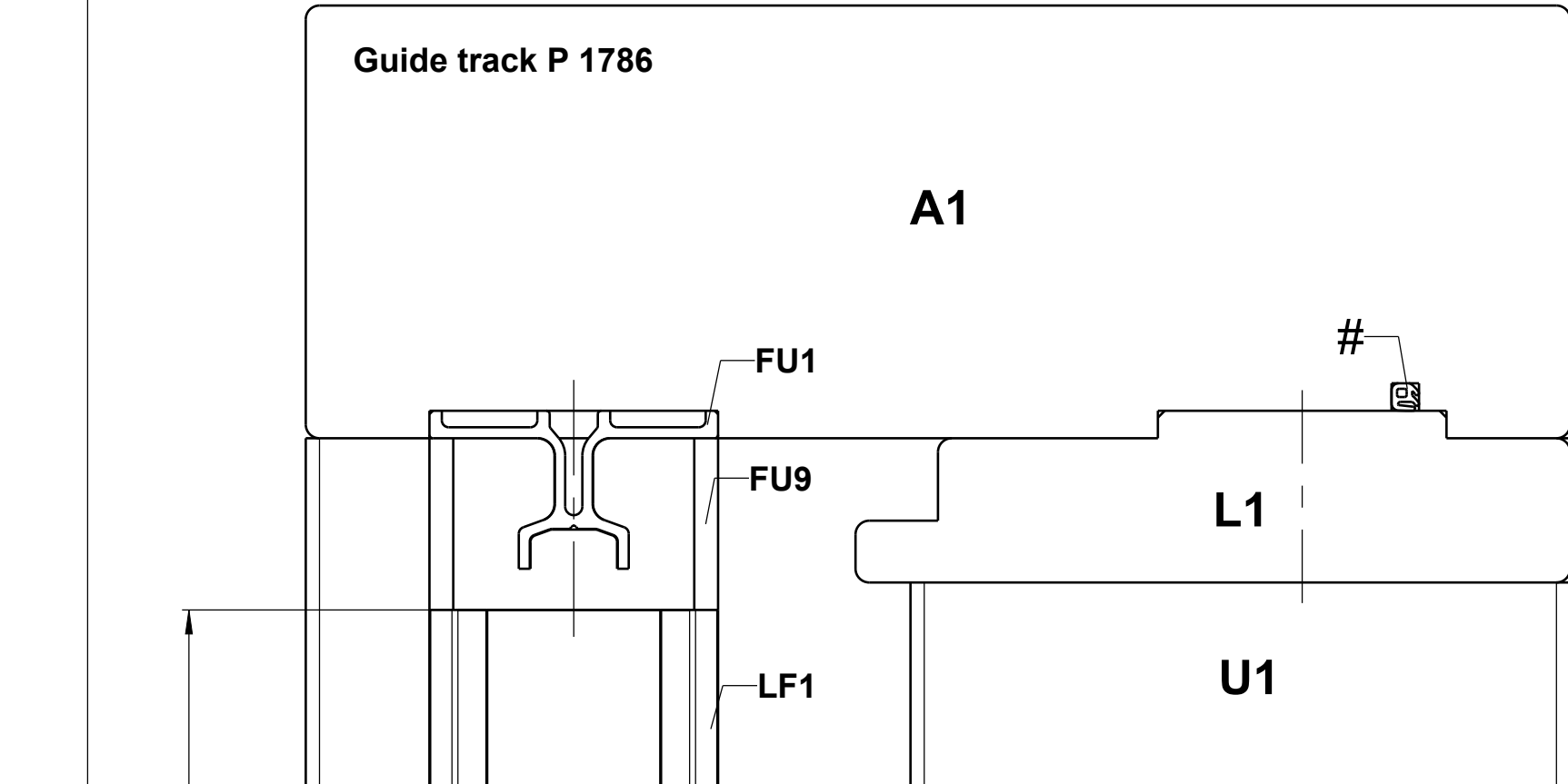
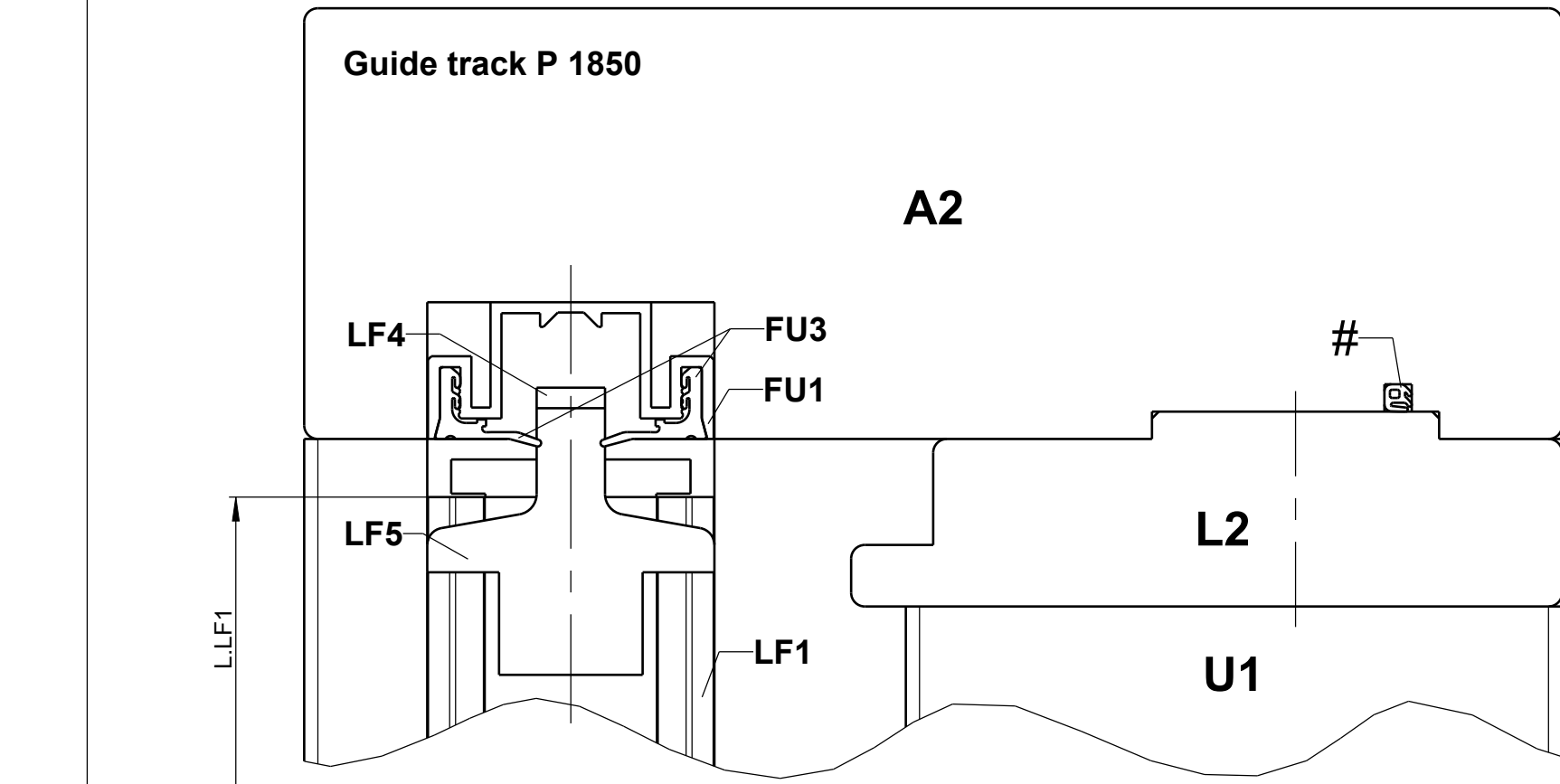
Application range:		
Sash width FB	min. 700 mm	max. 3300 mm
Sash height FH	LS 5 min. 1066.5 mm	max. 2926.5 mm
Sash weight FG	LS 10 min. 1071.5 mm	max. 2931.5 mm
		max. 400 kg
The sash height must not exceed 2.5 times the sash width.		
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
PB	Profile width	
FB	Sash width	
FH	Sash height	
FG	Sash weight	
LS	Roller track	
L.D4	Profile length D4	
L.BS4	Length of Lift&Slide gear	
L.AH4	Length of extension	
L.AH10	Length of connecting rod	

# Item BS66 or alternative gasket

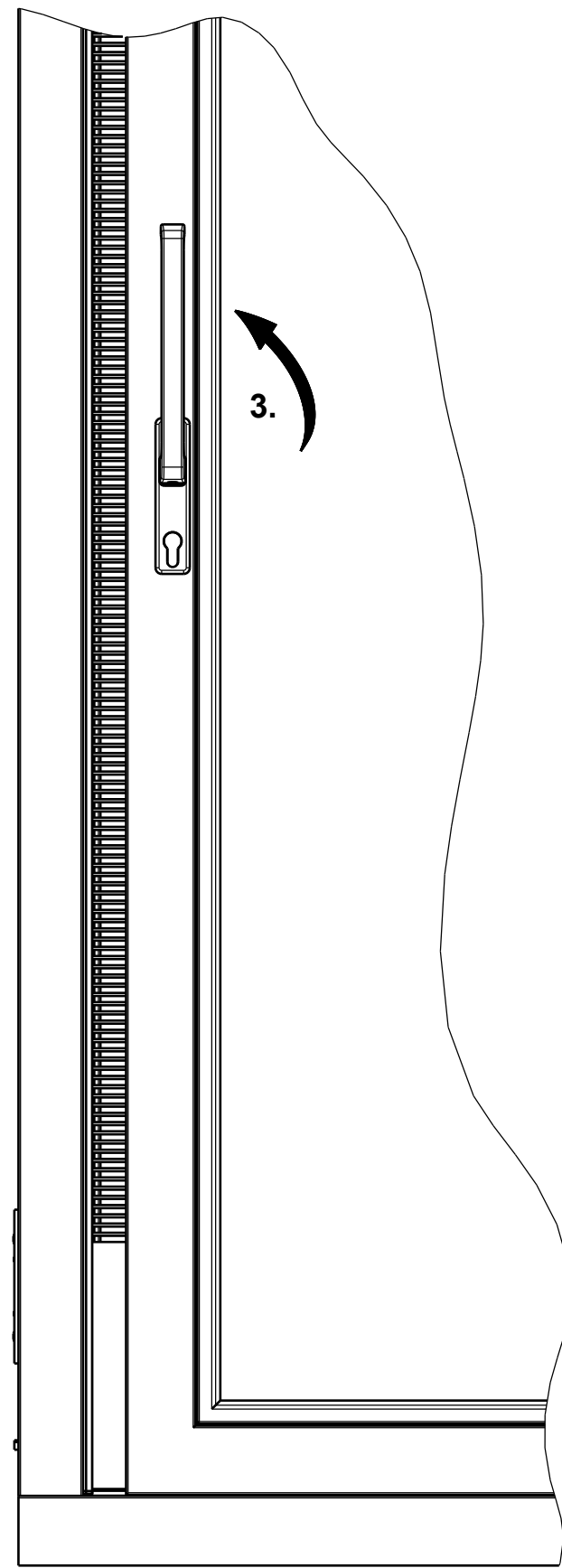
Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68

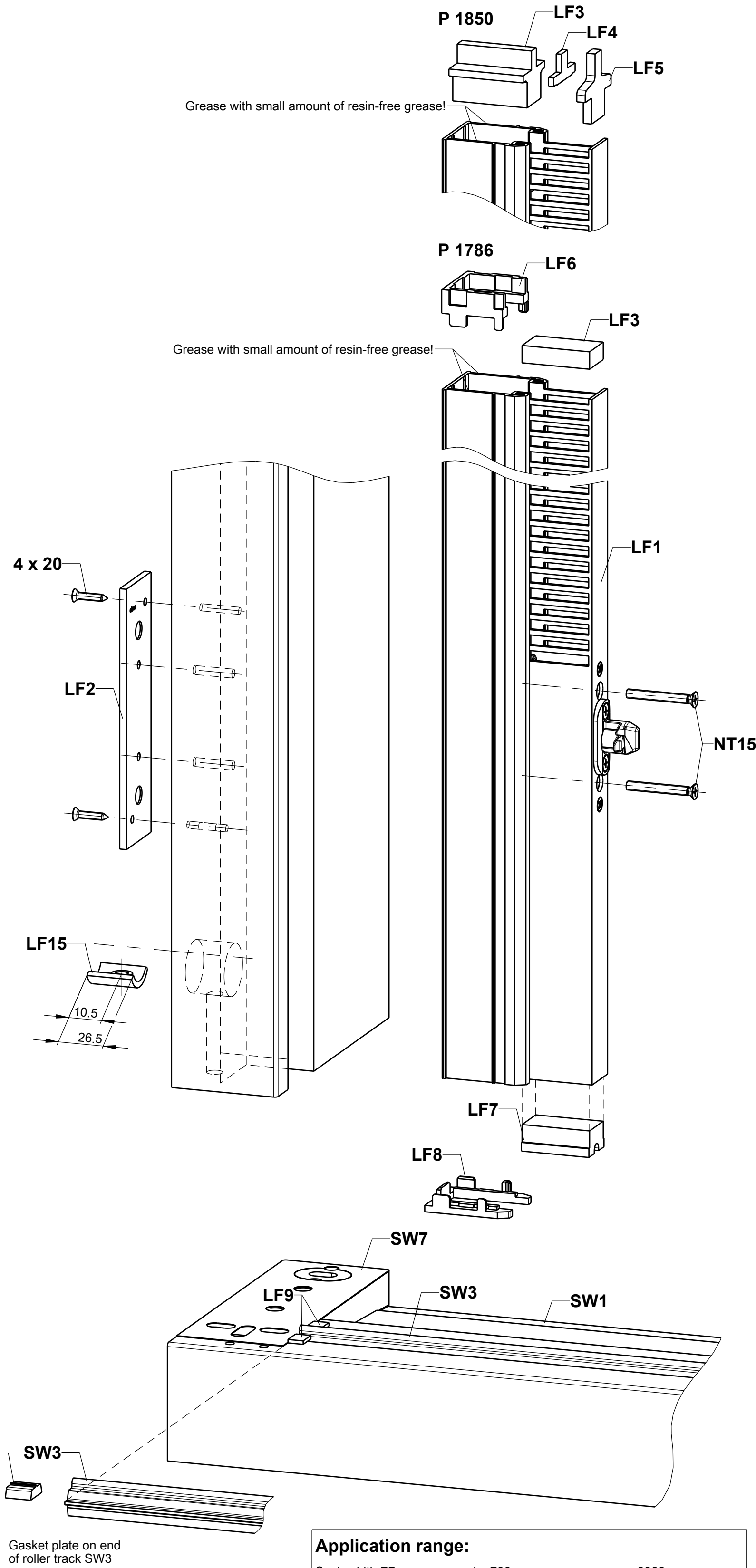




With the handle in 90° position, the sash can be slid open until stop = ventilation position.



Locked ventilation position



Application range:		
Sash width FB	min. 700 mm	max. 3300 mm
Sash height FH	min. 850 mm	max. 3250 mm
Sash weight FG		max. 400 kg
The sash height must not exceed 2.5 times the sash width.		

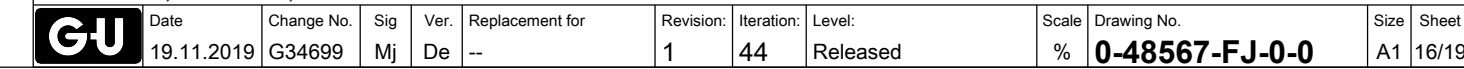
i	Inside	see calculation form
m	Centered	
a	Outside	

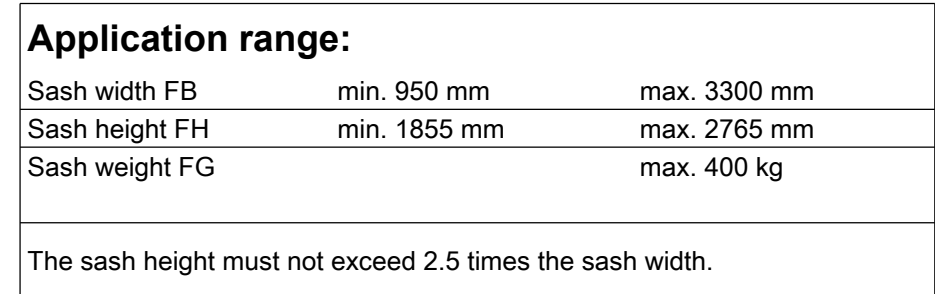
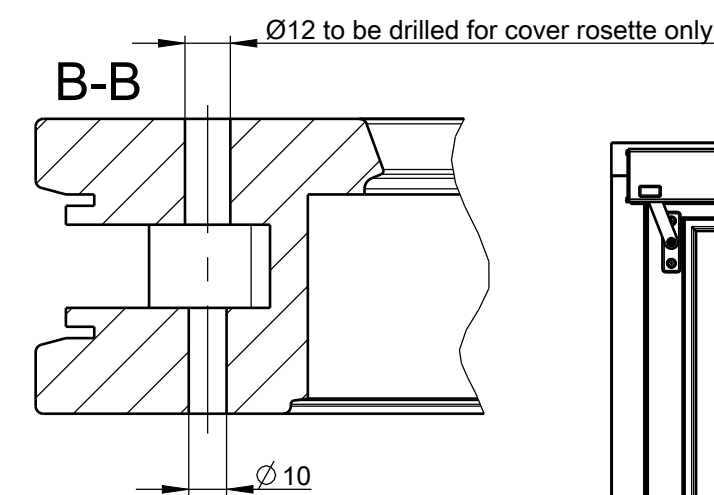
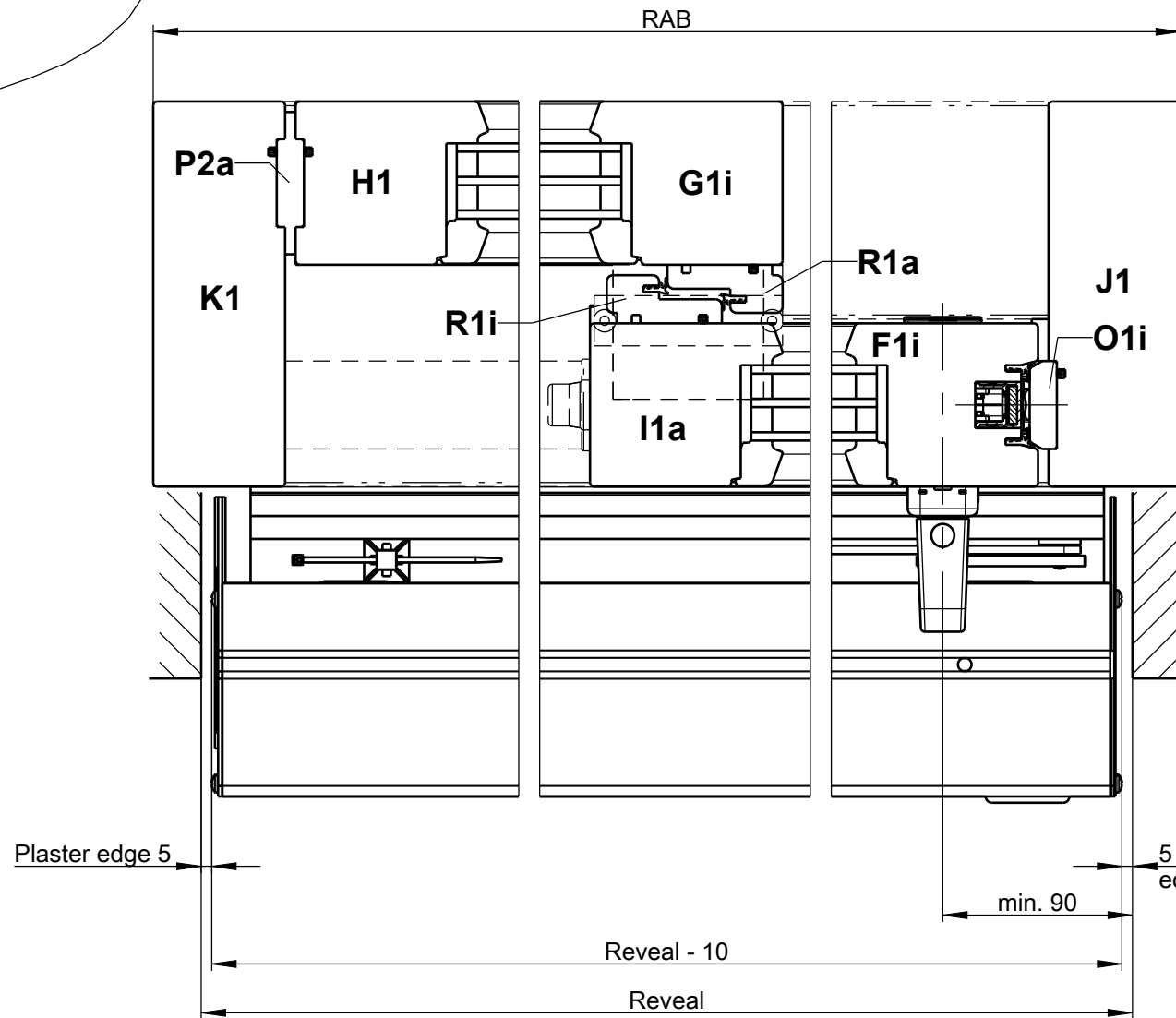
FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FB	Sash width
FH	Sash height
FG	Sash weight
Sf1	Shadow gap 1
LLF1	Length of night vent module

# Item BS66 or alternative gasket

Depicted: FD 78, FA 28, ZB 63

Description:  
Special applications neutral timber Lift&Slide elements  
GU-934 / GU-937, P 1786 / P 1850  
FD 68-110, FA 16-29, ZB 56-68



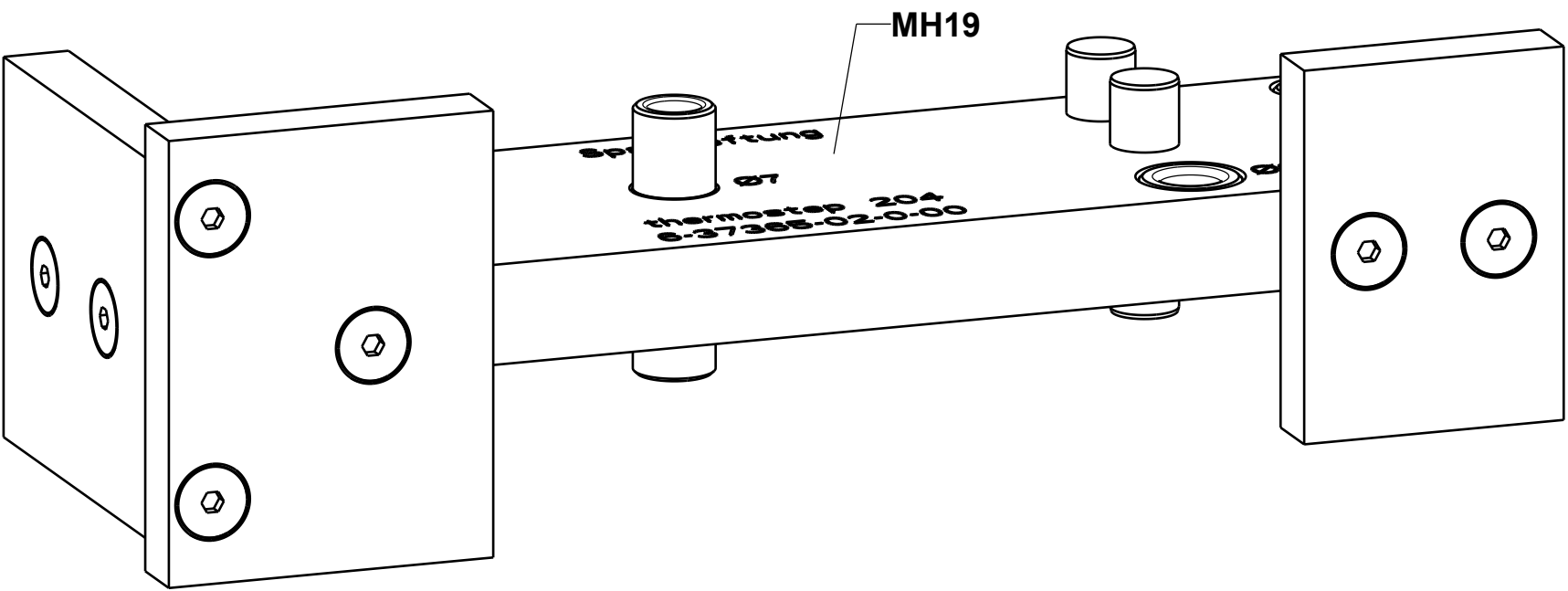


<b>i</b>	<b>Inside</b>	<b>see calculation form</b>
<b>m</b>	<b>Centered</b>	
<b>a</b>	<b>Outside</b>	
<b>FD</b>	<b>Door leaf thickness</b>	
<b>FA</b>	<b>Sash distance</b>	
<b>ZB</b>	<b>Frame profile width</b>	
<b>FB</b>	<b>Sash width</b>	
<b>FH</b>	<b>Sash height</b>	
<b>FG</b>	<b>Sash weight</b>	
<b>D</b>	<b>Backset</b>	
<b>RAB</b>	<b>Total frame width</b>	
<b>L.MA2</b>	<b>Length of connecting rod</b>	
<b>L.MA4</b>	<b>Length of Lift&amp;Slide gear</b>	

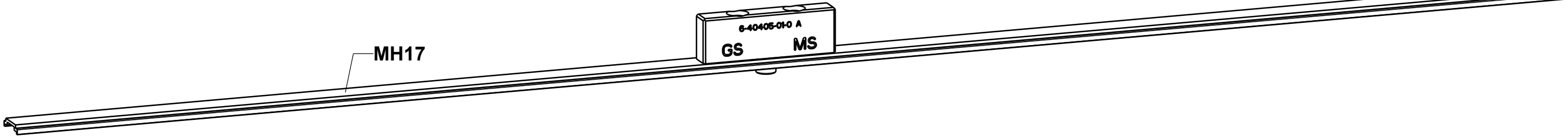
HS Master  
Pattern A  
P 1786 / P 1850

<b>GU</b>	Date	Change No.	Sig	Ver.	Replacement for	Revision:	Iteration:	Level:	Scale	Drawing No.	Size	Sheet
	19.11.2019	G34699	MI	De	--	1	44	Released	%	0-48567-F.I-0-0	A1	17/18

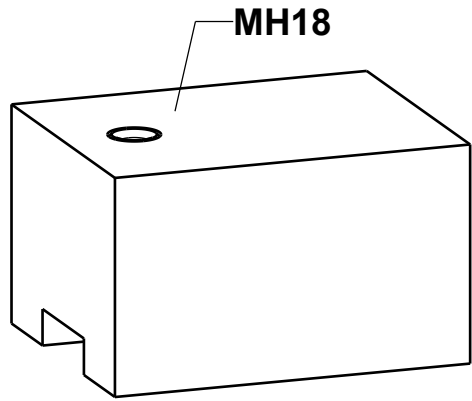
Drilling jig for L&S night vent module



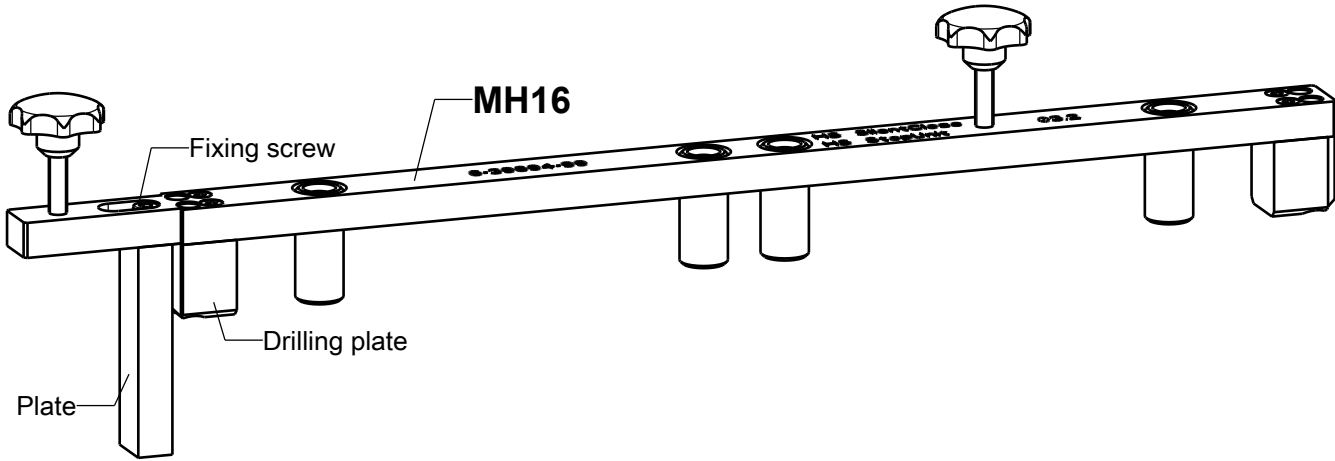
Drilling jig for HS SilentClose/StopUnit trigger-part



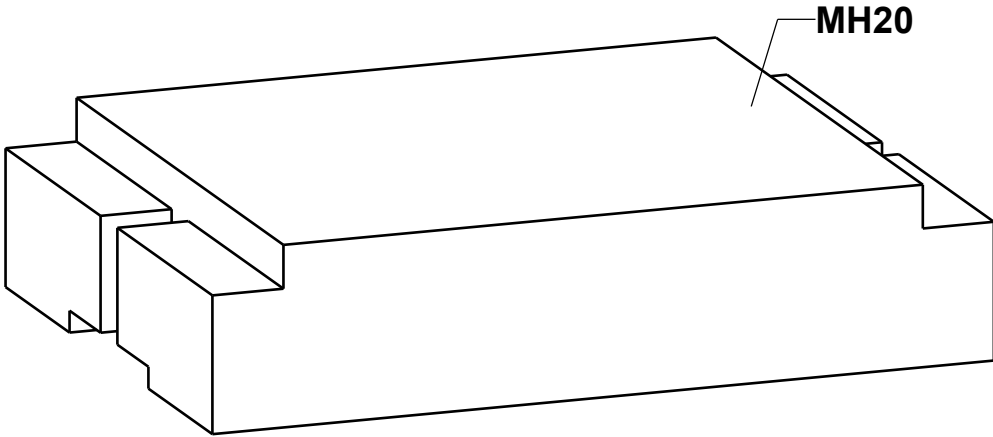
Drilling jig for anti-jemmy device P 1850



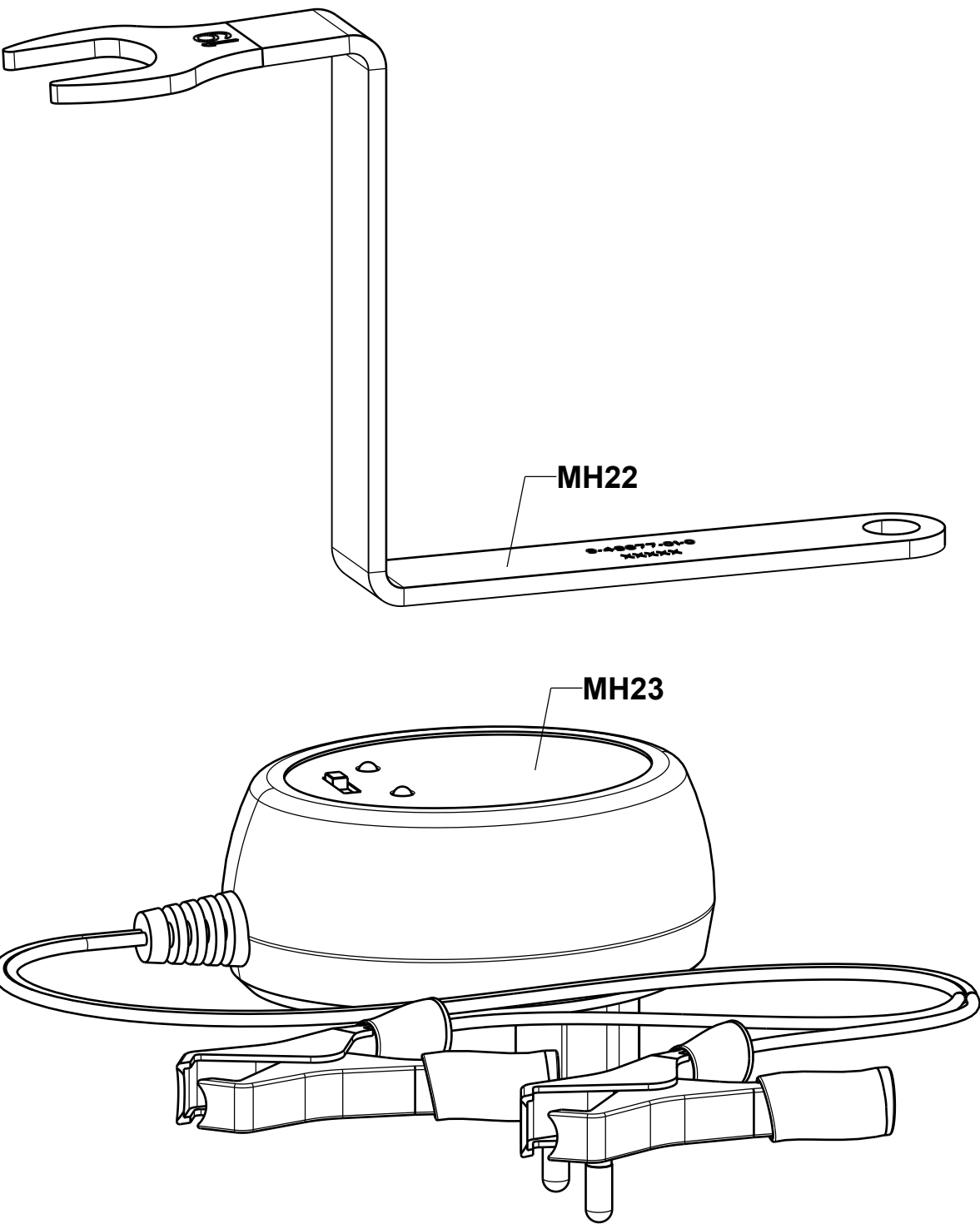
Drilling jig for HS SilentClose/StopUnit Guide track P 1786



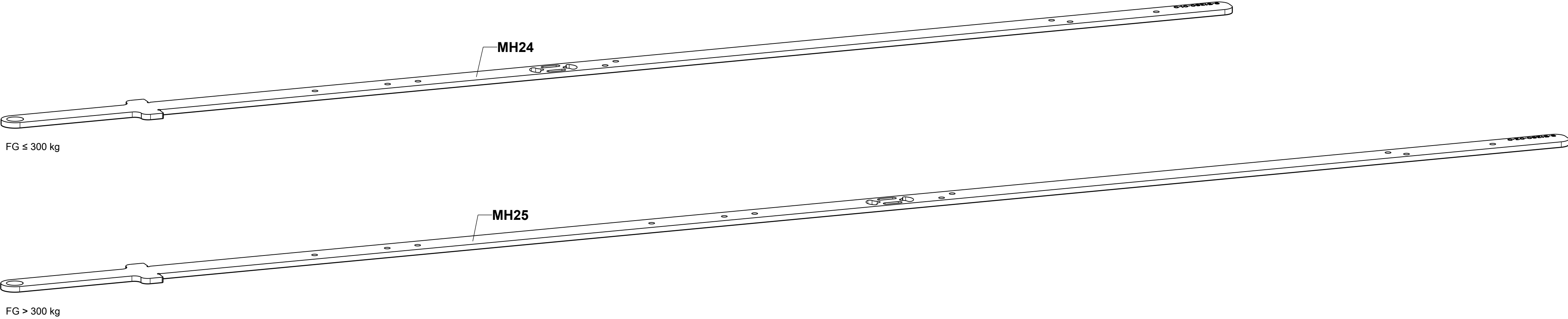
Mounting block L&S threshold, floor-flush



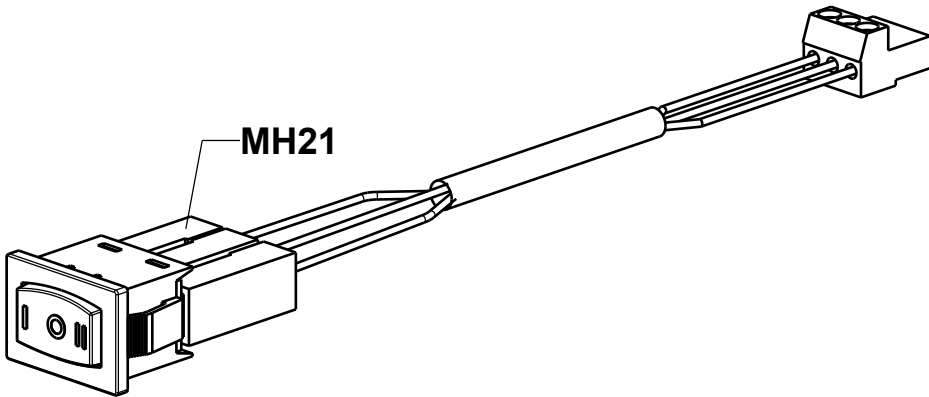
Installation kit HS ePOWER



Drilling jig for HS ePOWER



Commissioning set HS Master

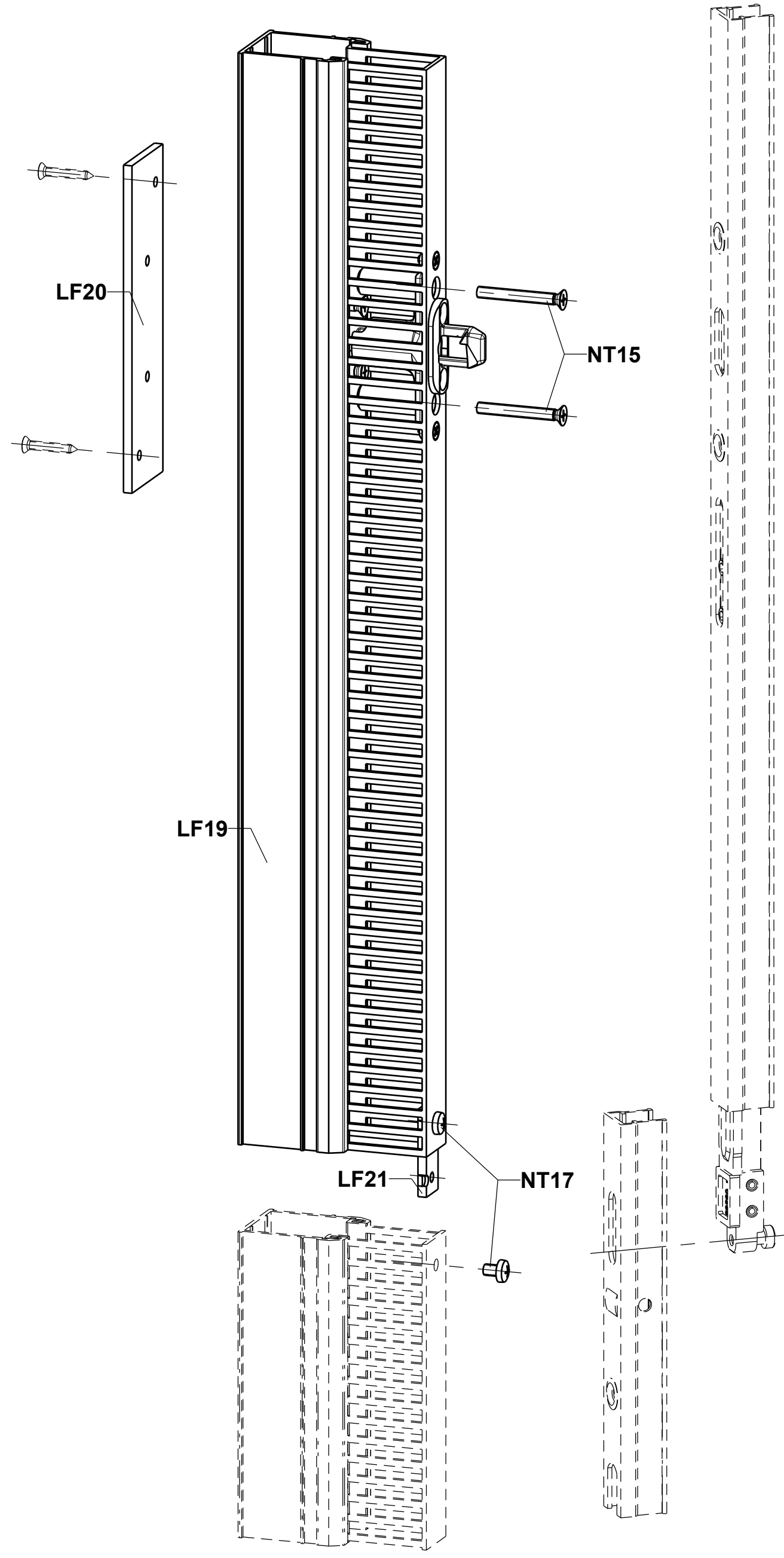


FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FG	Sash weight

Installation aids

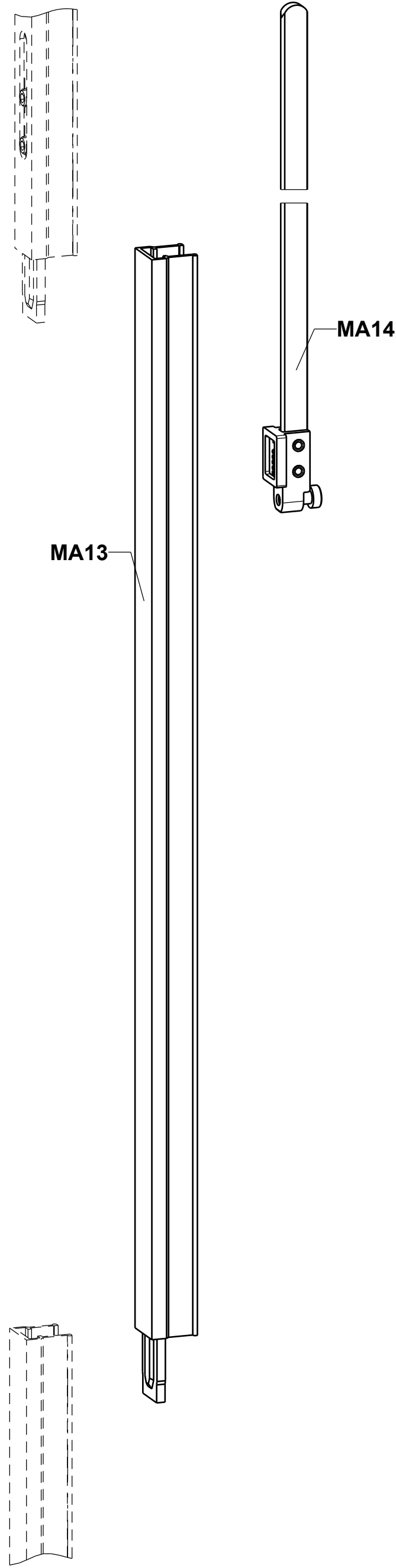
Description: Special applications neutral timber Lift&Slide elements GU-934 / GU-937, P 1786 / P 1850 FD 68-110, FA 16-29, ZB 56-68											
GU	Date	Change No.	Sig	Ver.	Replacement for	Revision:	Iteration:	Level:	Scale:	Drawing No.	Size Sheet
	19.11.2019	G34699	Mj	De	--	1	44	Released	%	0-48567-FJ-0-0	A1 18/19

L&S night vent module - extension 500 mm

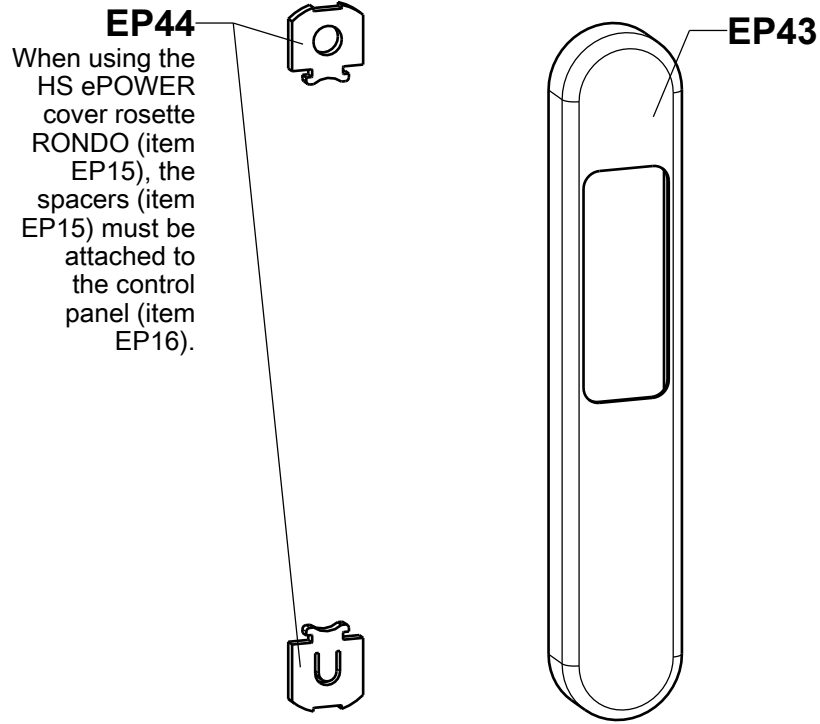


Installation see 0-45606-FJ

HS Master Cover rail extension

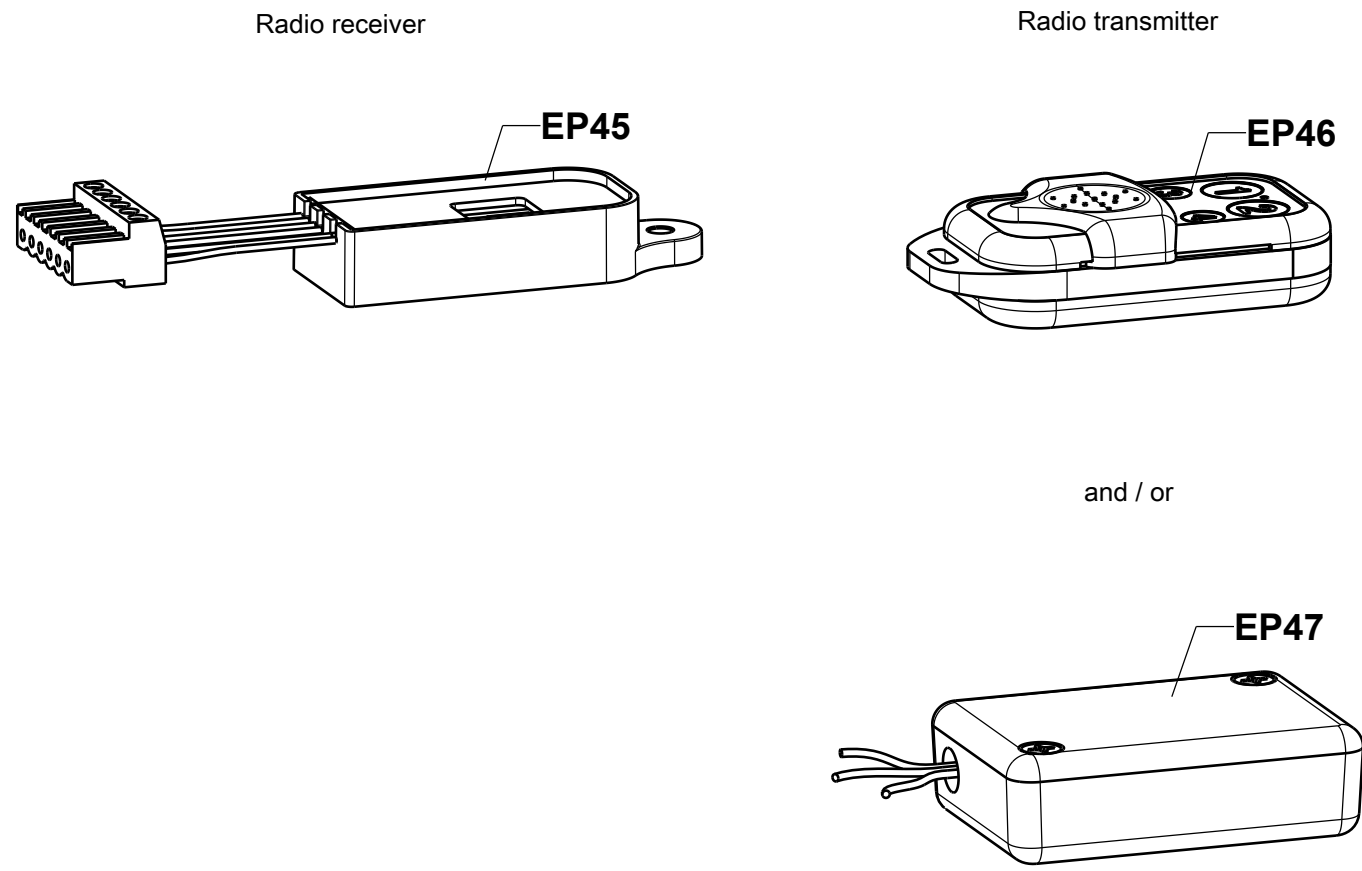


HS ePOWER Cover rosette RONDO

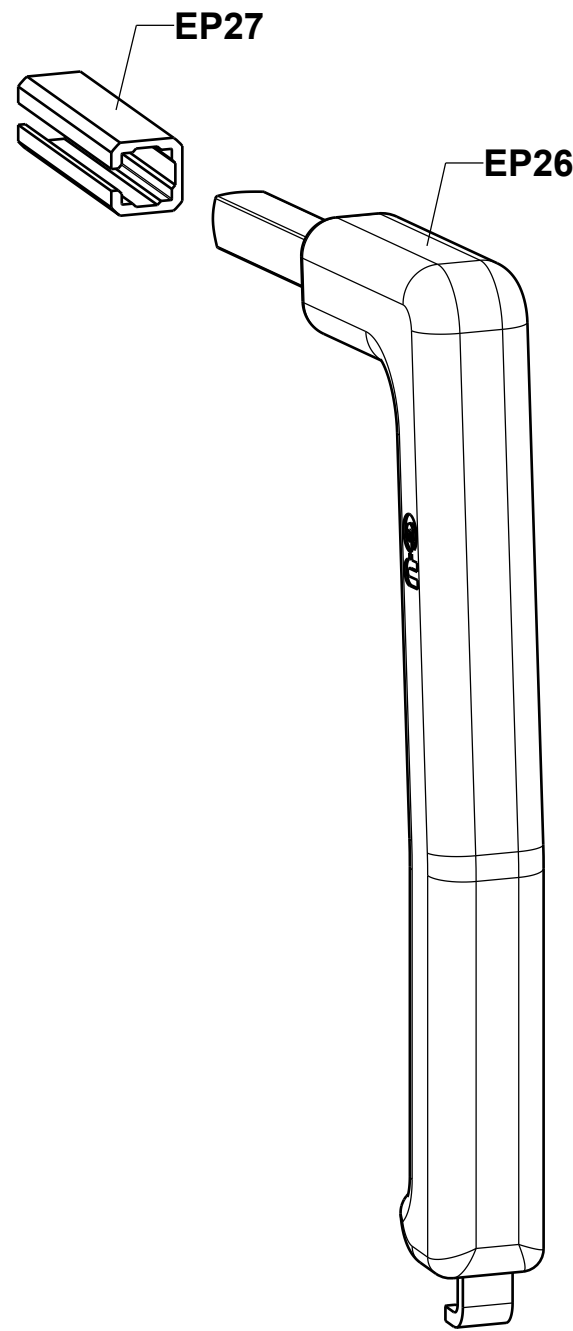


When using the HS ePOWER cover rosette RONDO (Item EP15), the spacers (Item EP15) must be attached to the control panel (Item EP16).

HS ePOWER Radio system



HS ePOWER Service handle for manual locking



FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width

Accessories