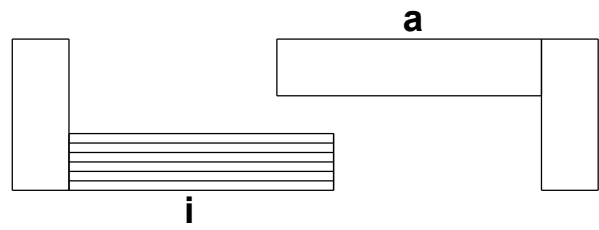
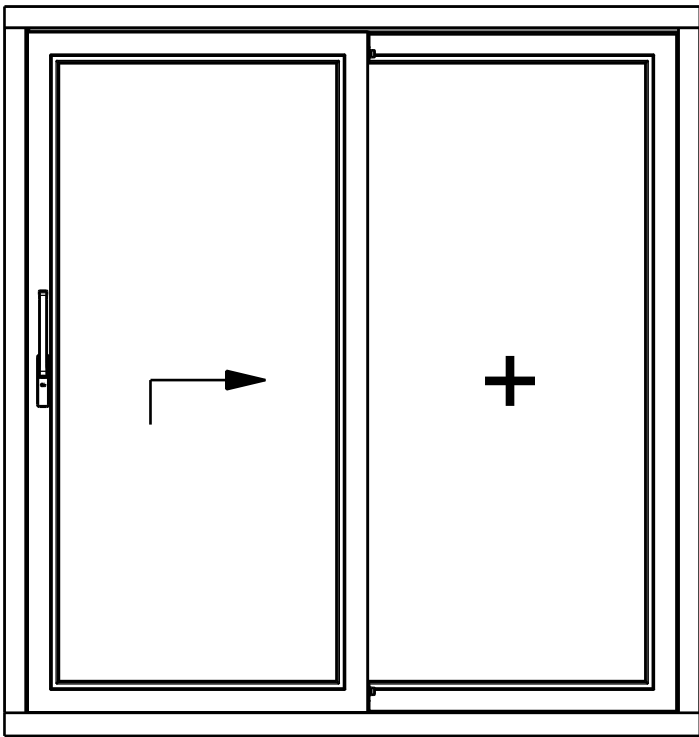
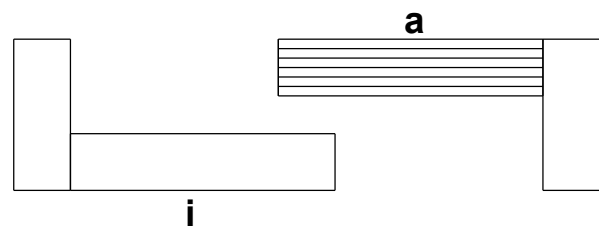
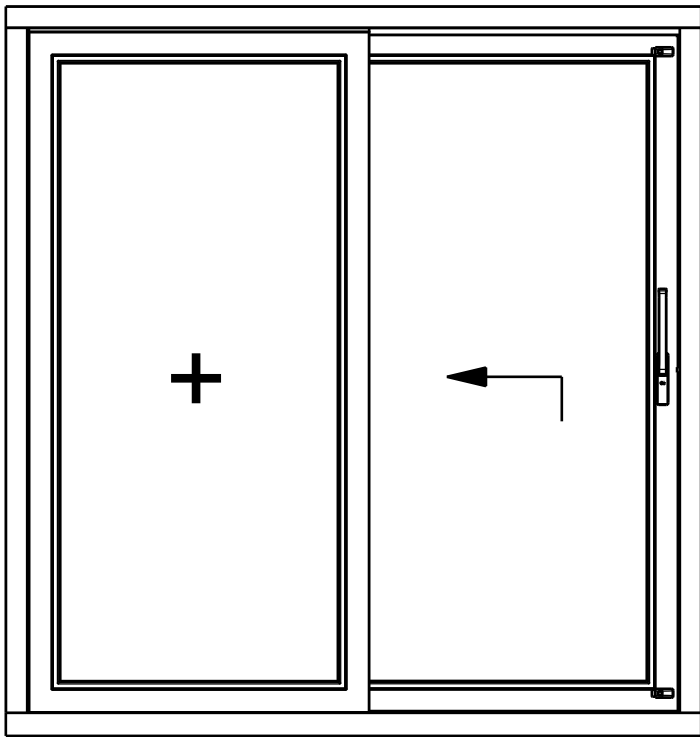


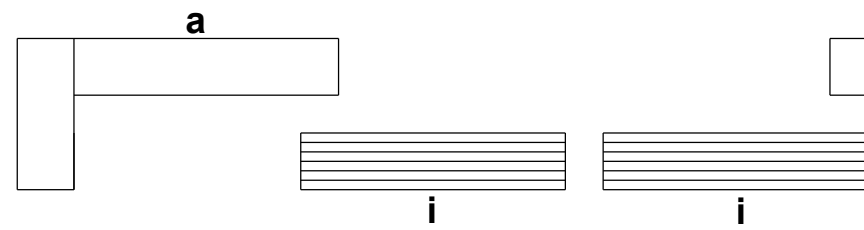
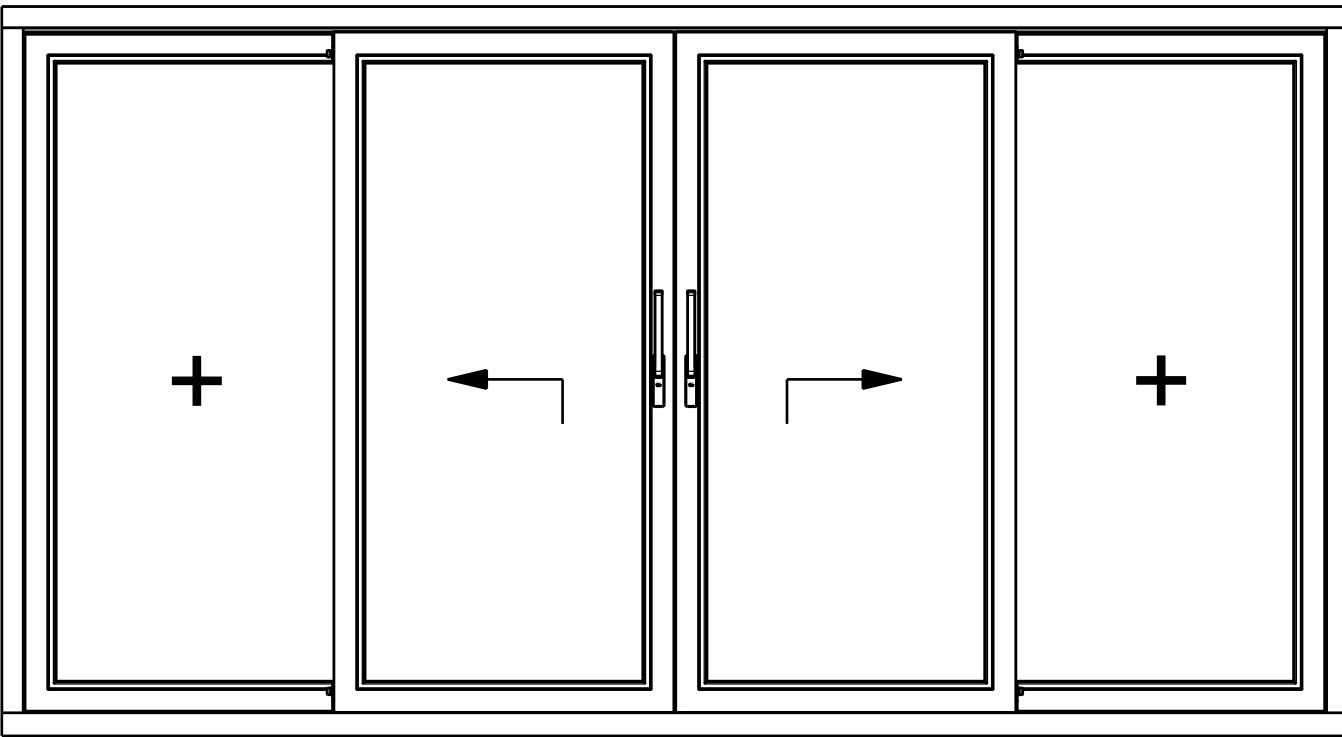
Pattern A



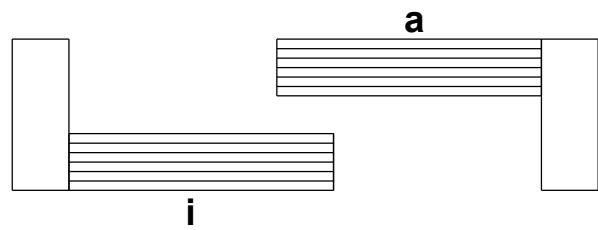
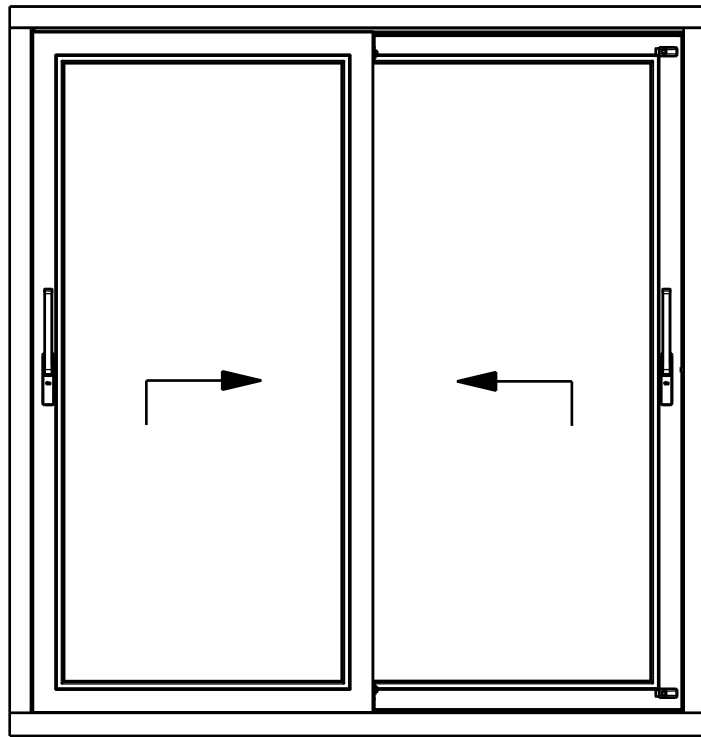
Pattern A3



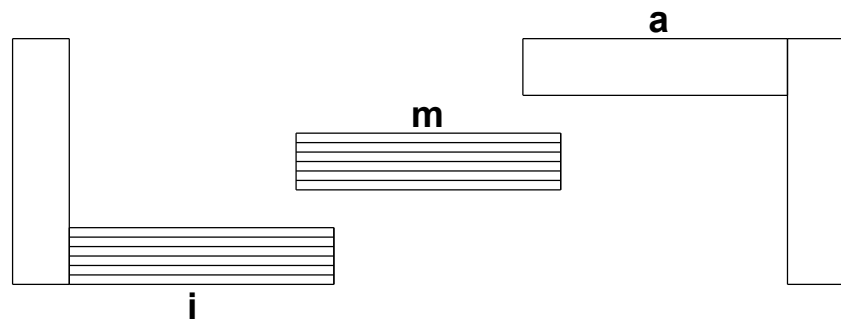
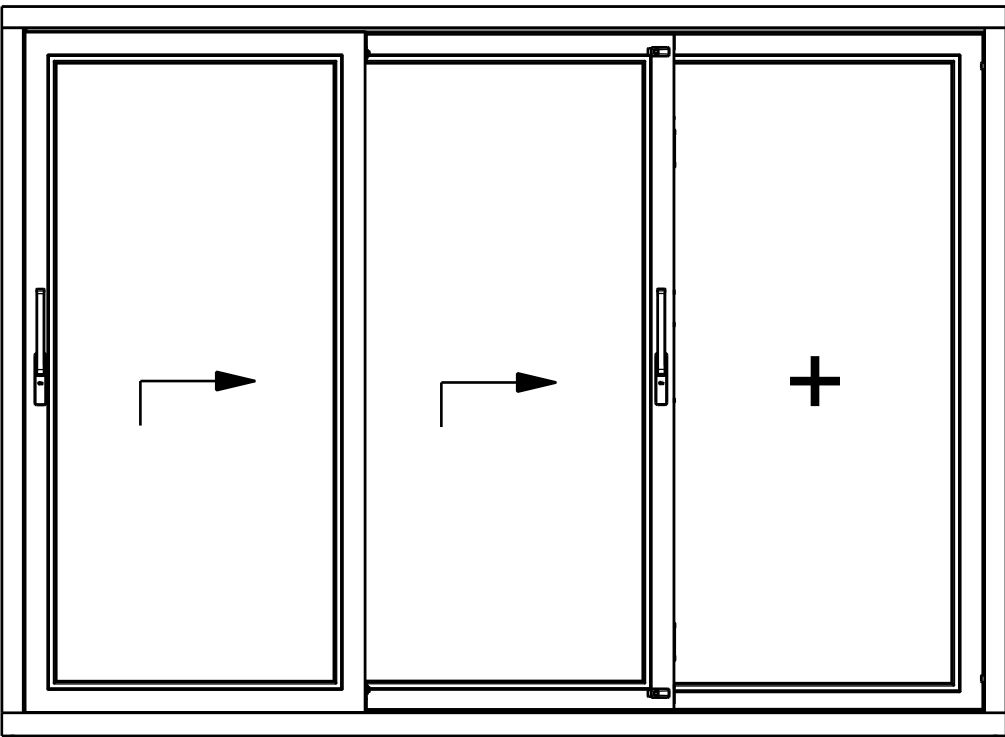
Pattern C



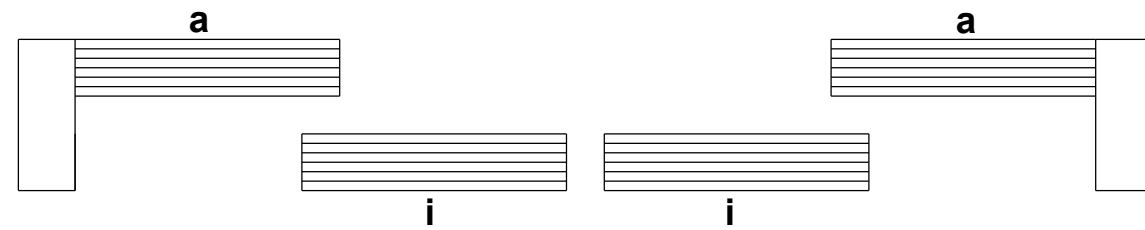
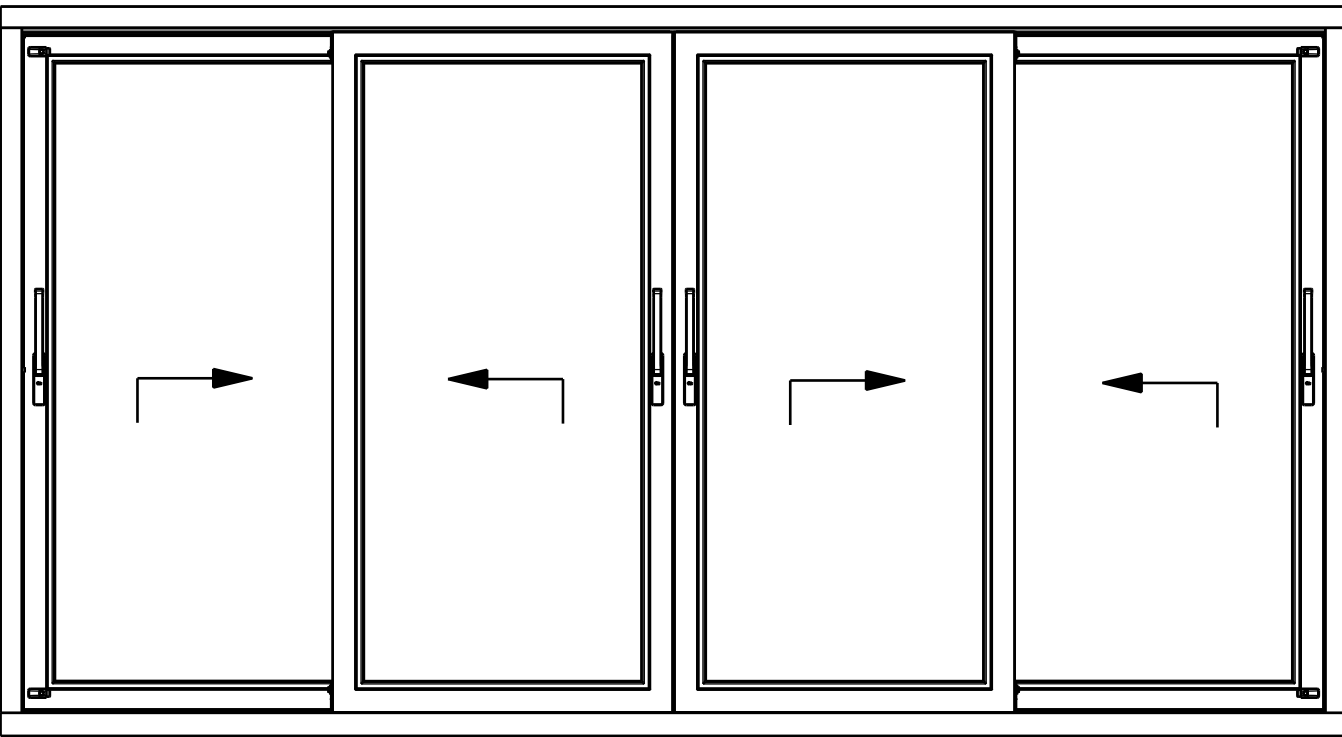
Pattern D



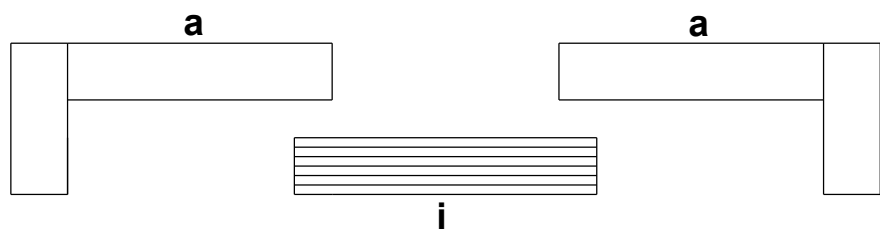
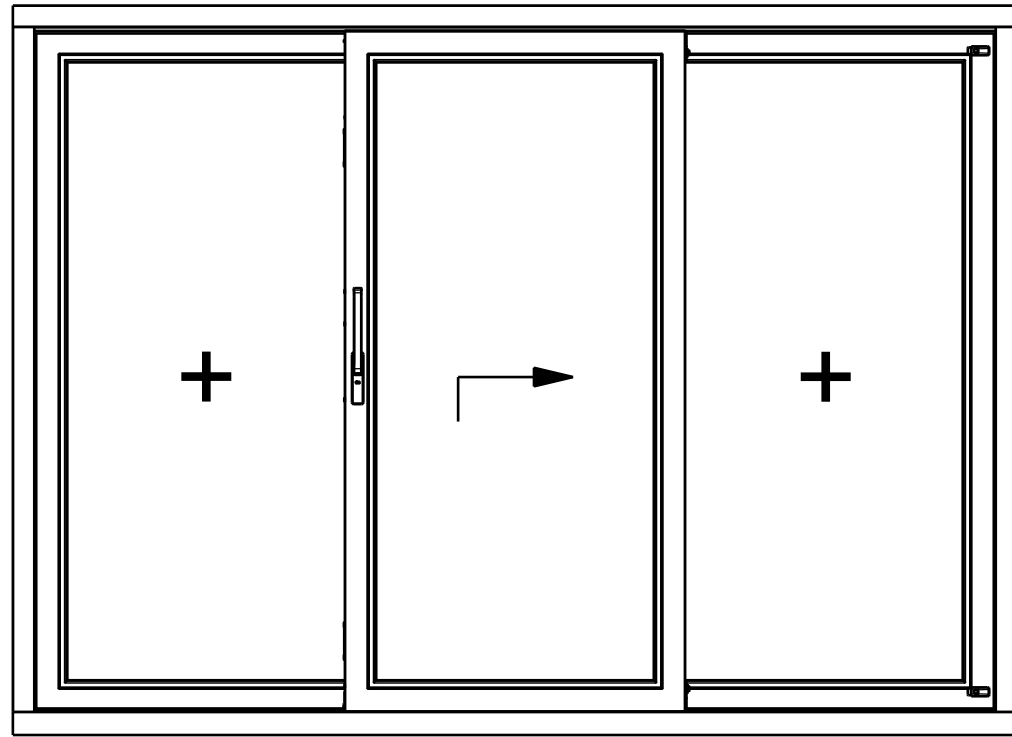
Pattern E



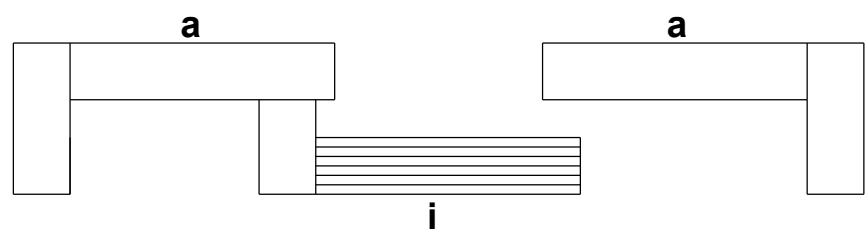
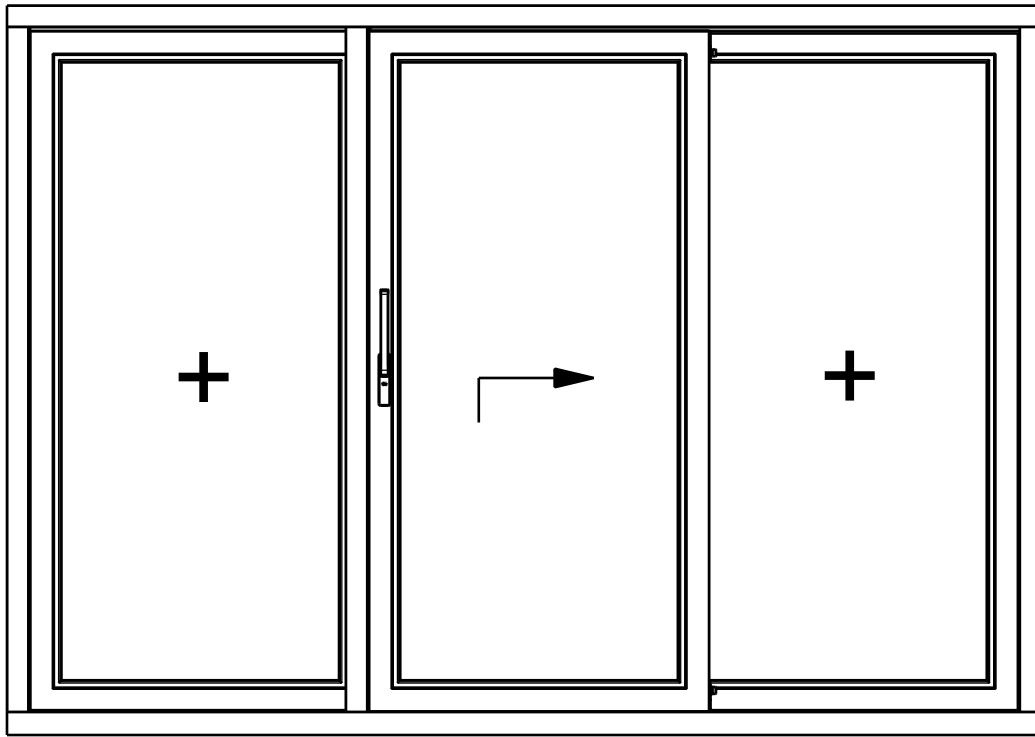
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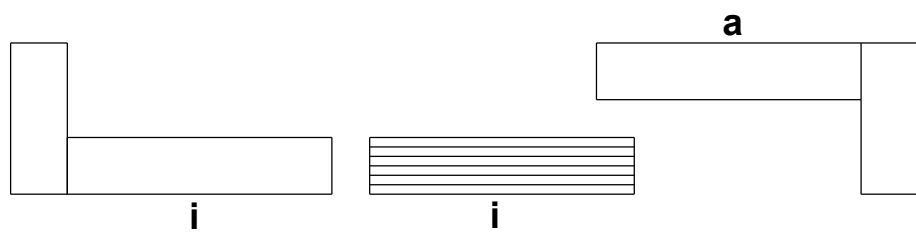
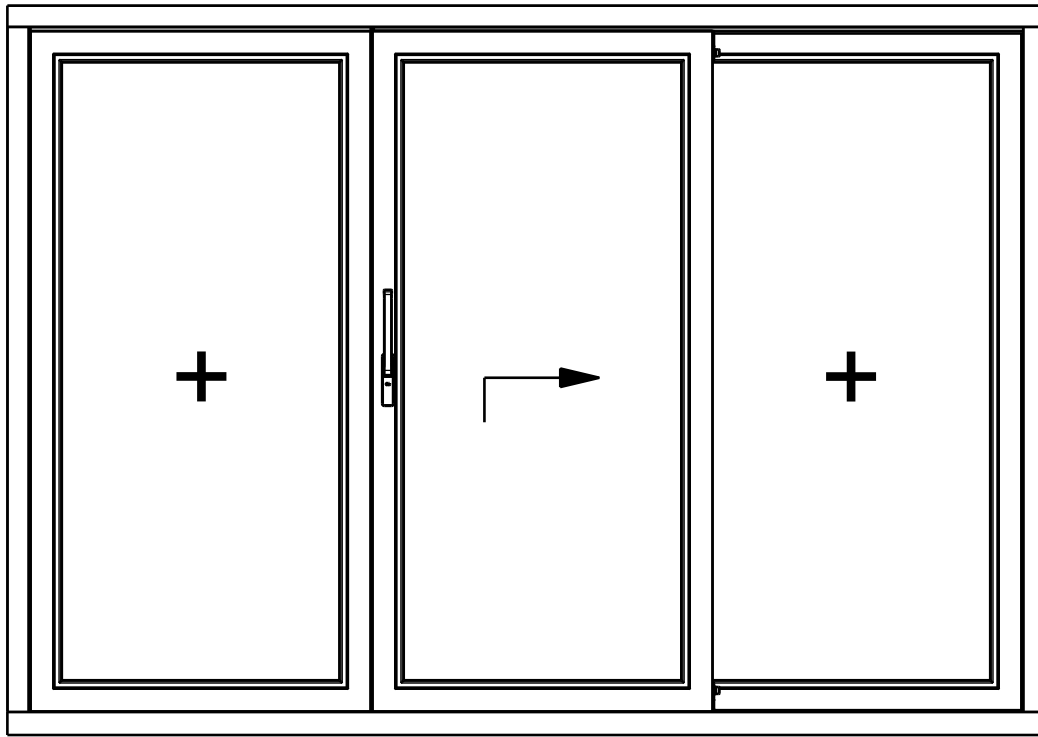
Pattern G1



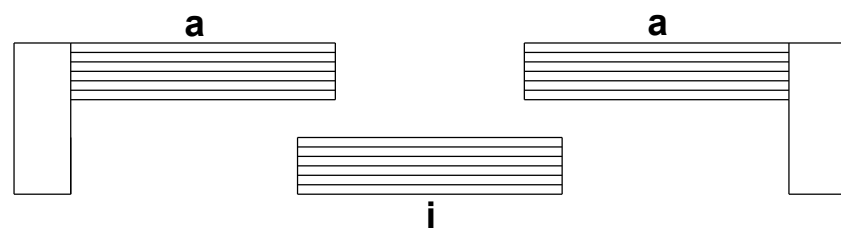
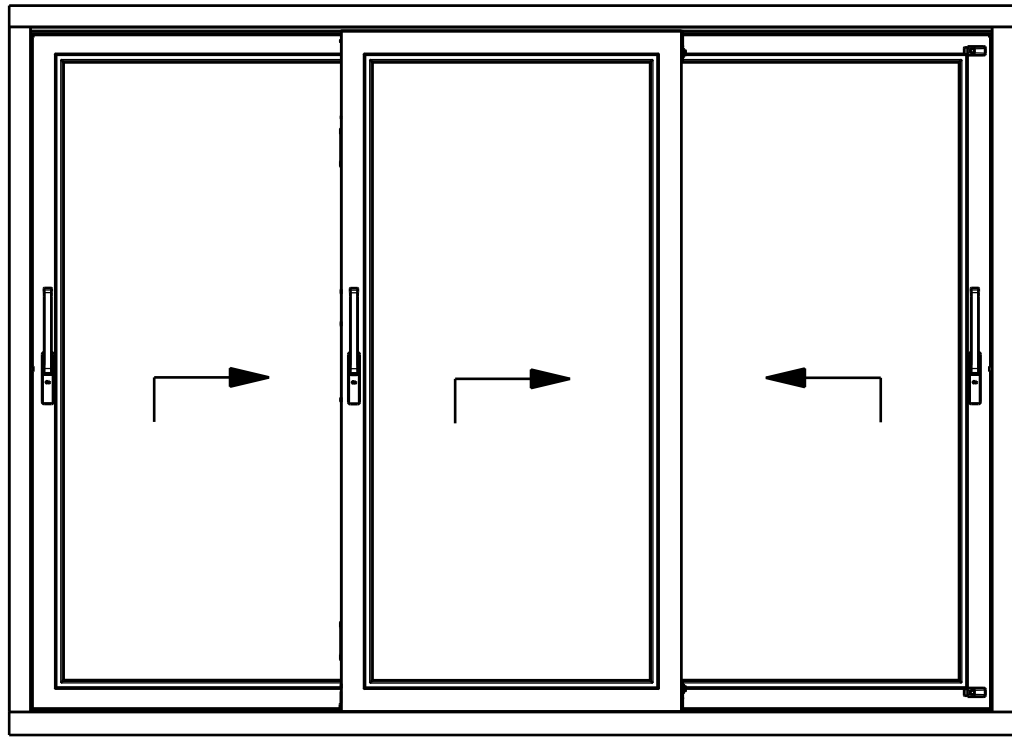
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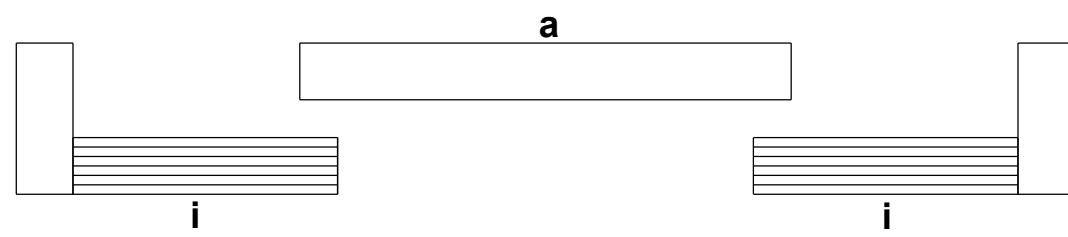
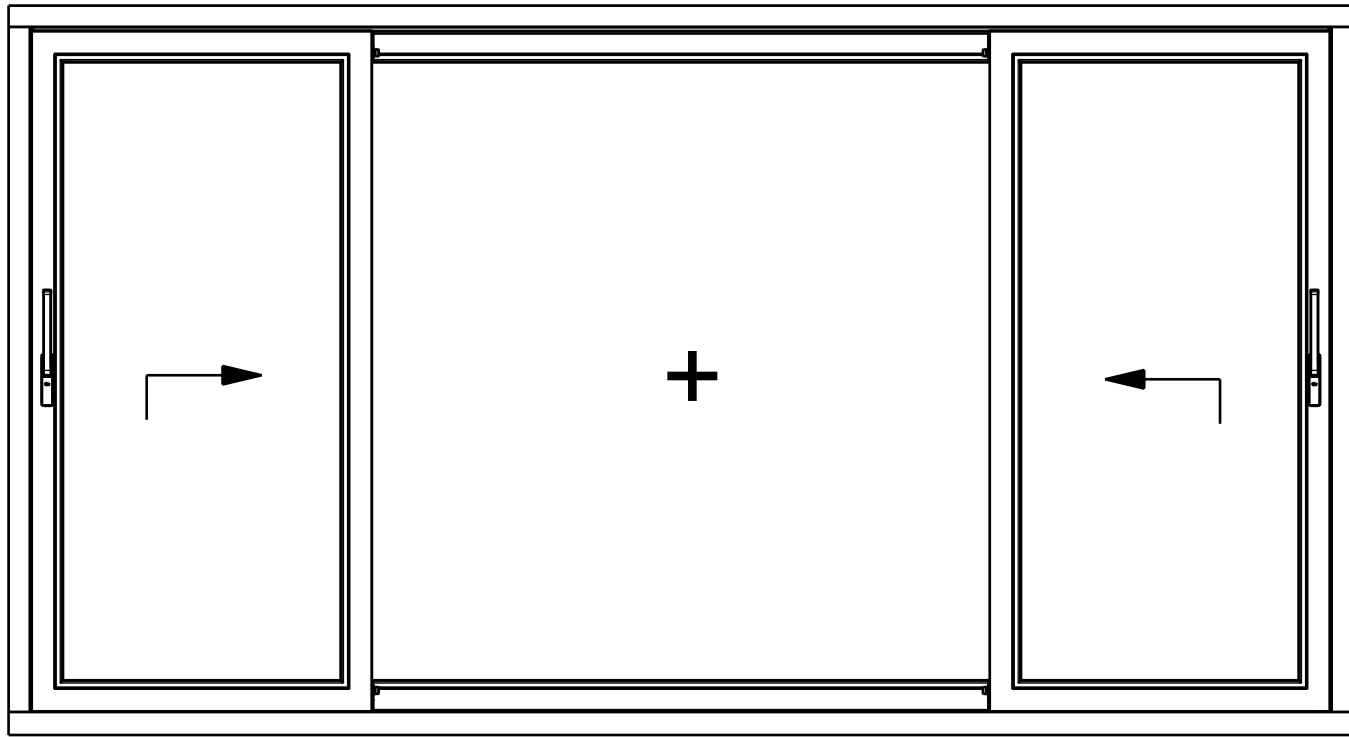
Pattern G3



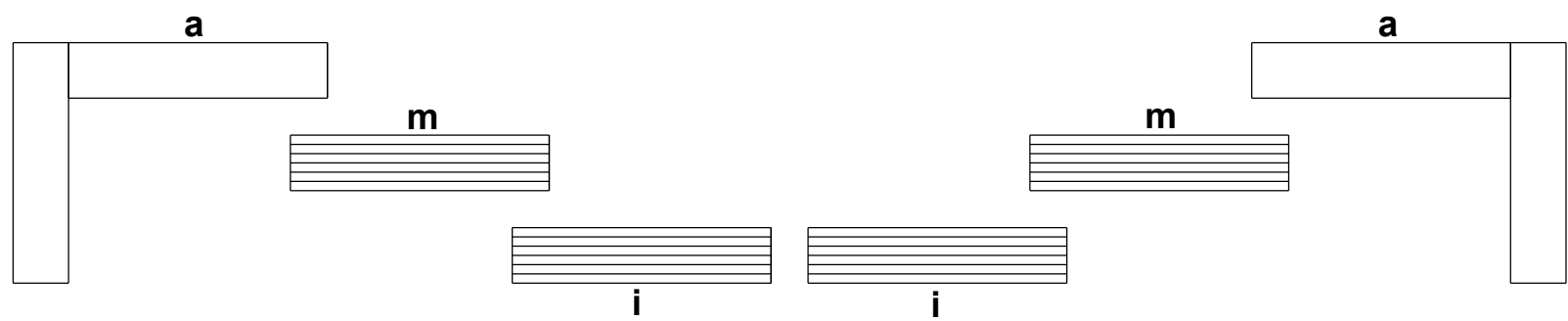
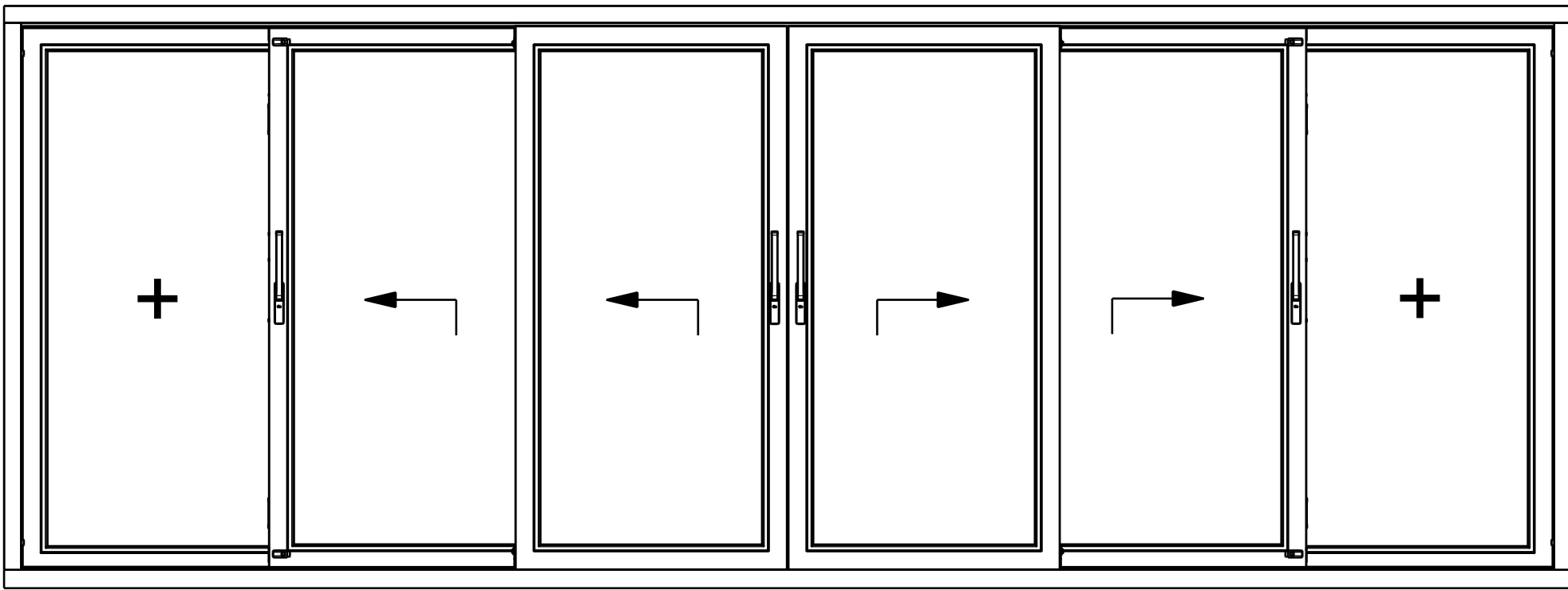
Pattern H



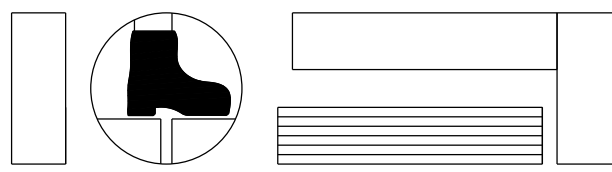
Pattern K



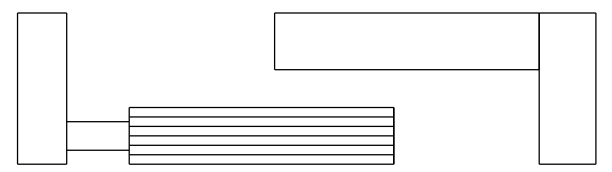
Pattern L



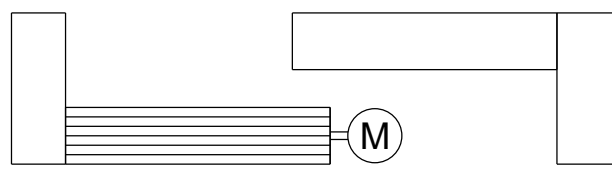
Special applications



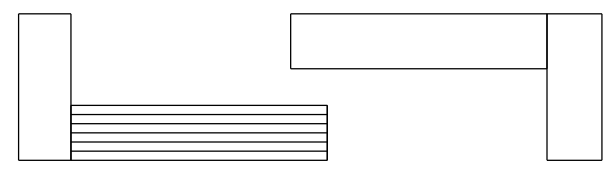
L&S threshold, floor-flush
See drawing 0-48567-FJ-0-0
Sheet 2 - 3



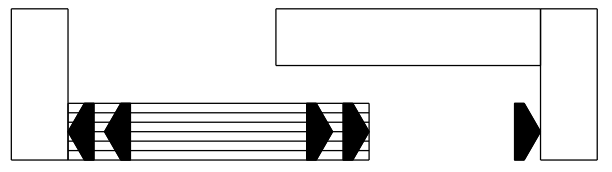
L&S night vent module
See drawing 0-48567-FJ-0-0
Sheet 15



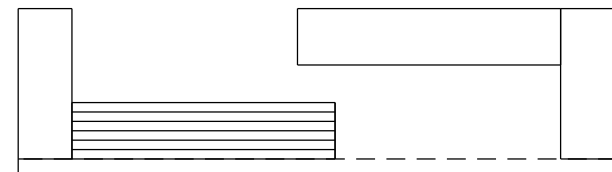
HS ePOWER
See drawing 0-48567-FJ-0-0
Sheet 4 - 7



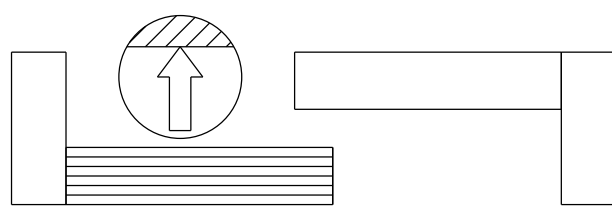
HS SPEED Limiter
See drawing 0-48567-FJ-0-0
Sheet 16



HS SilentClose / HS StopUnit
See drawing 0-48567-FJ-0-0
Sheet 8 - 12



HS Master
See drawing 0-48567-FJ-0-0
Sheet 17



Anti-jemmy device
See drawing 0-48567-FJ-0-0
Sheet 13 - 14

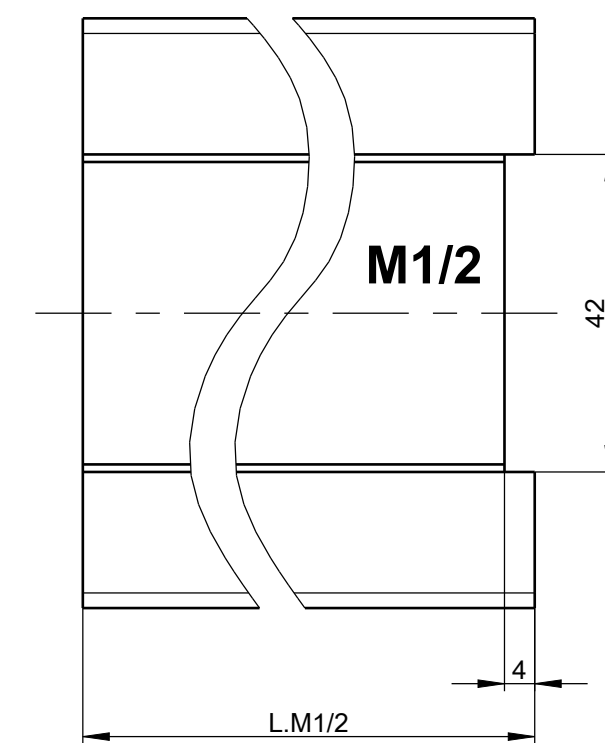
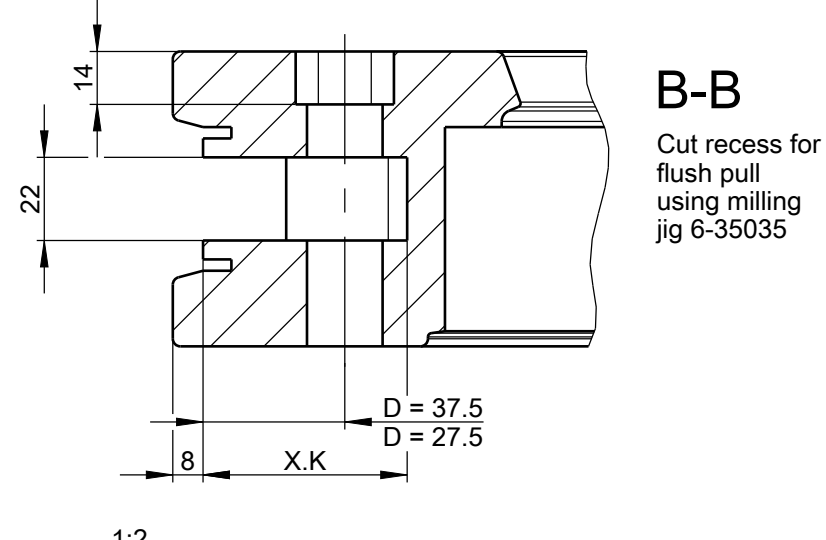
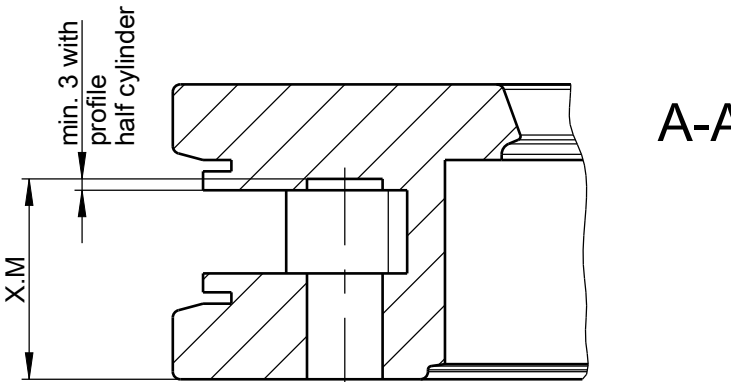
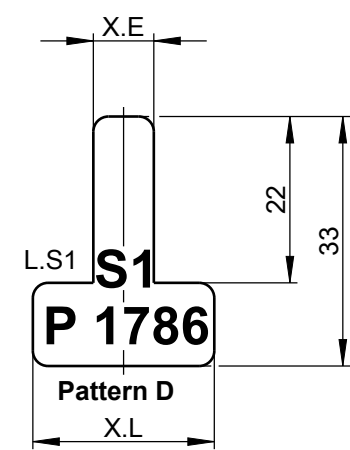
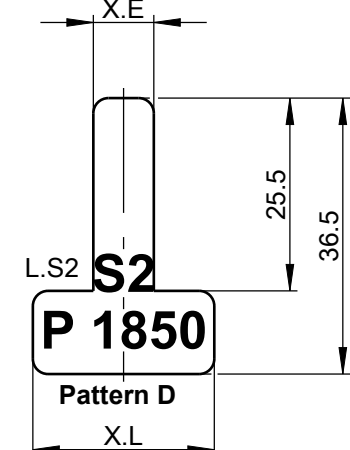
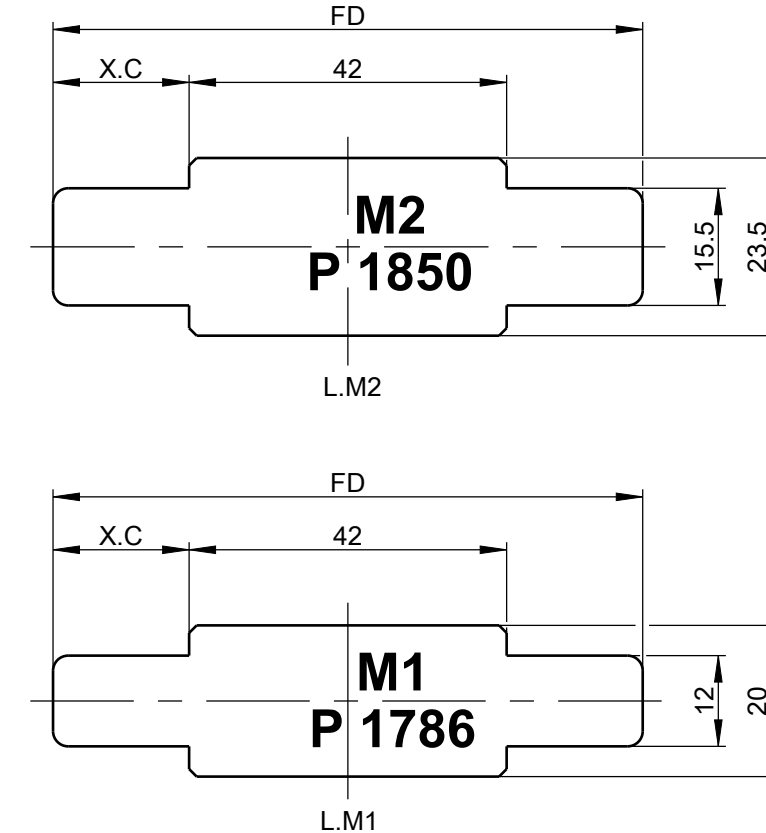
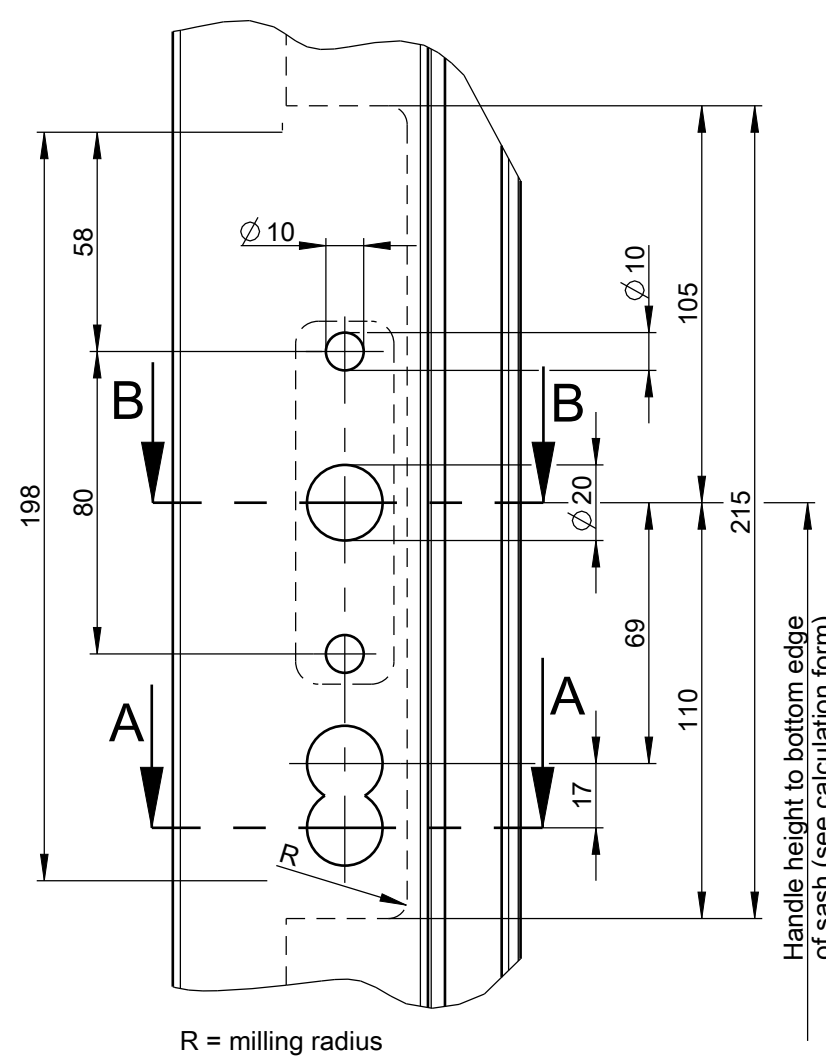
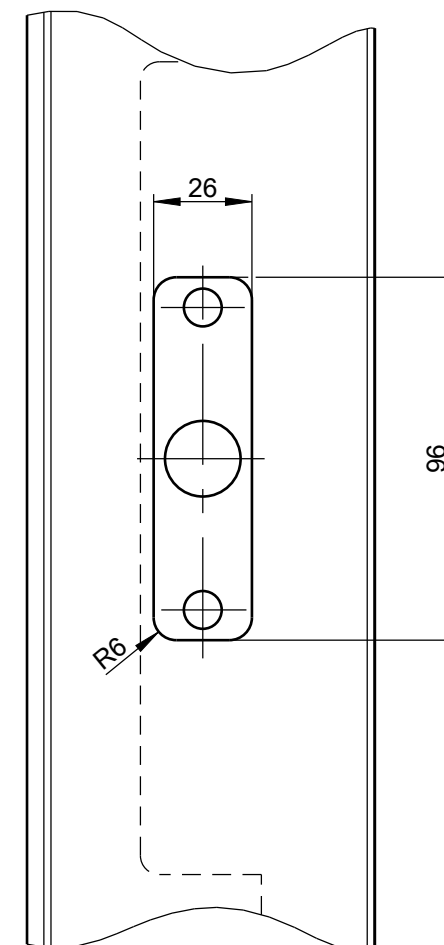
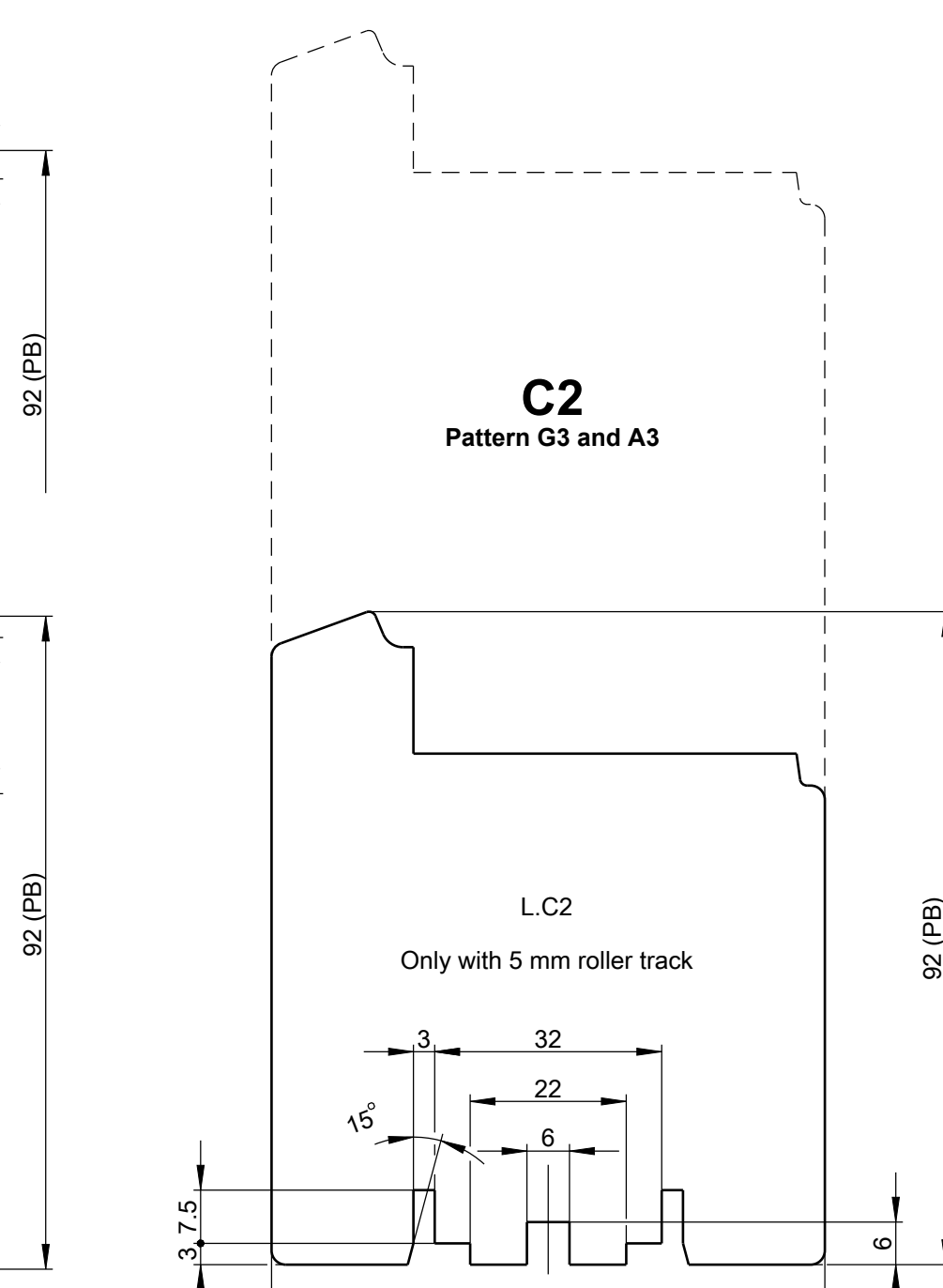
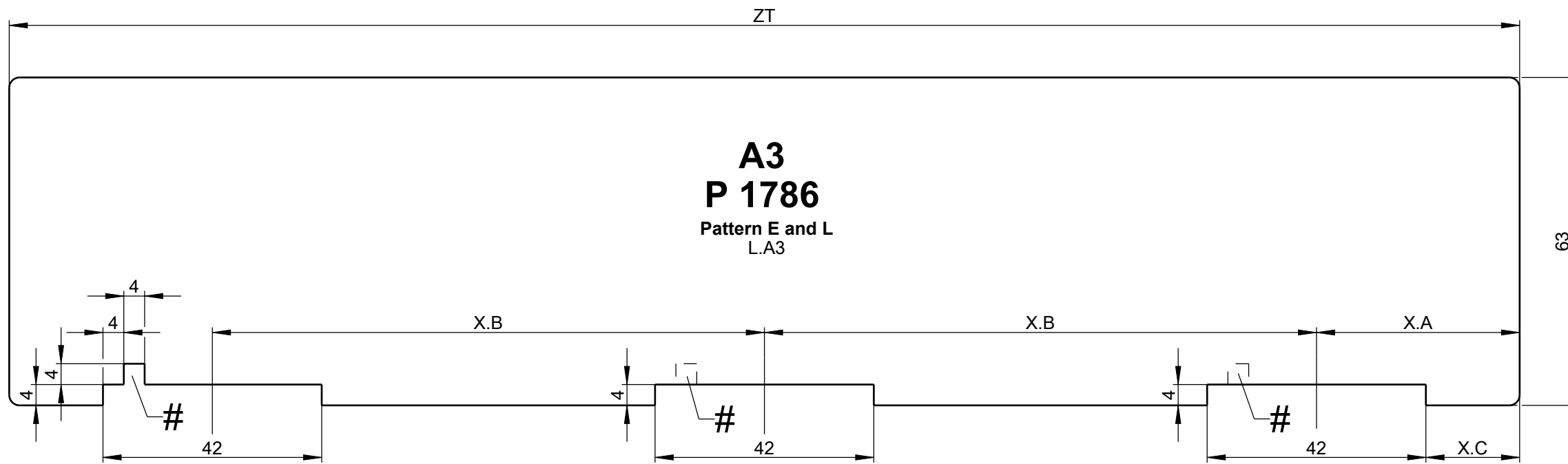
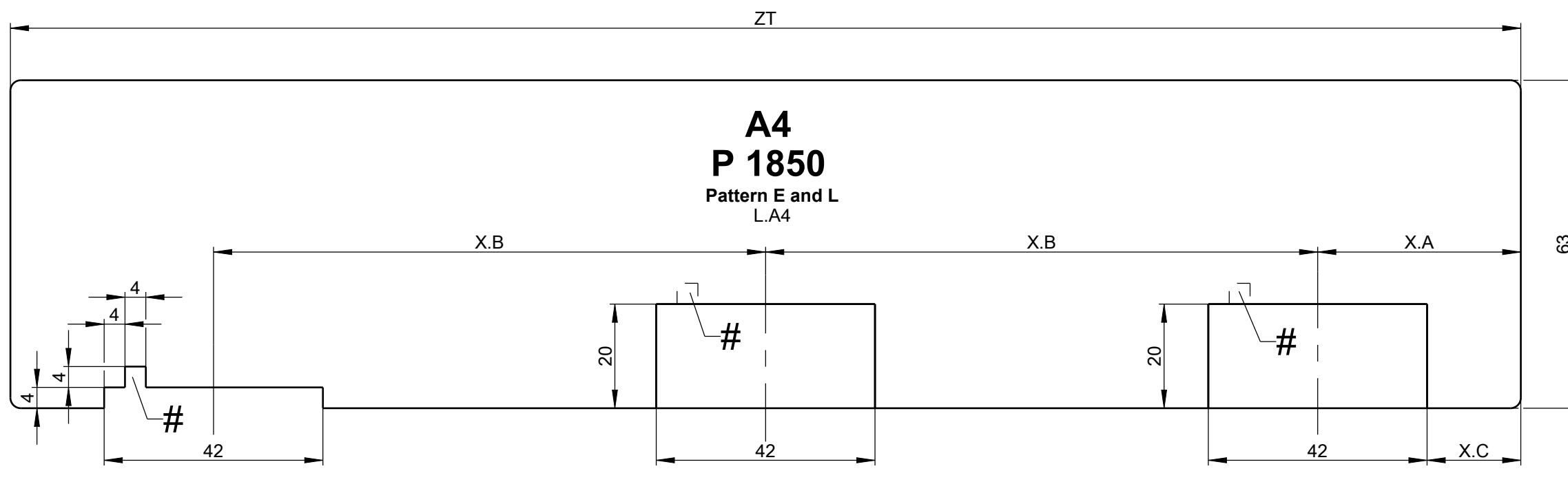
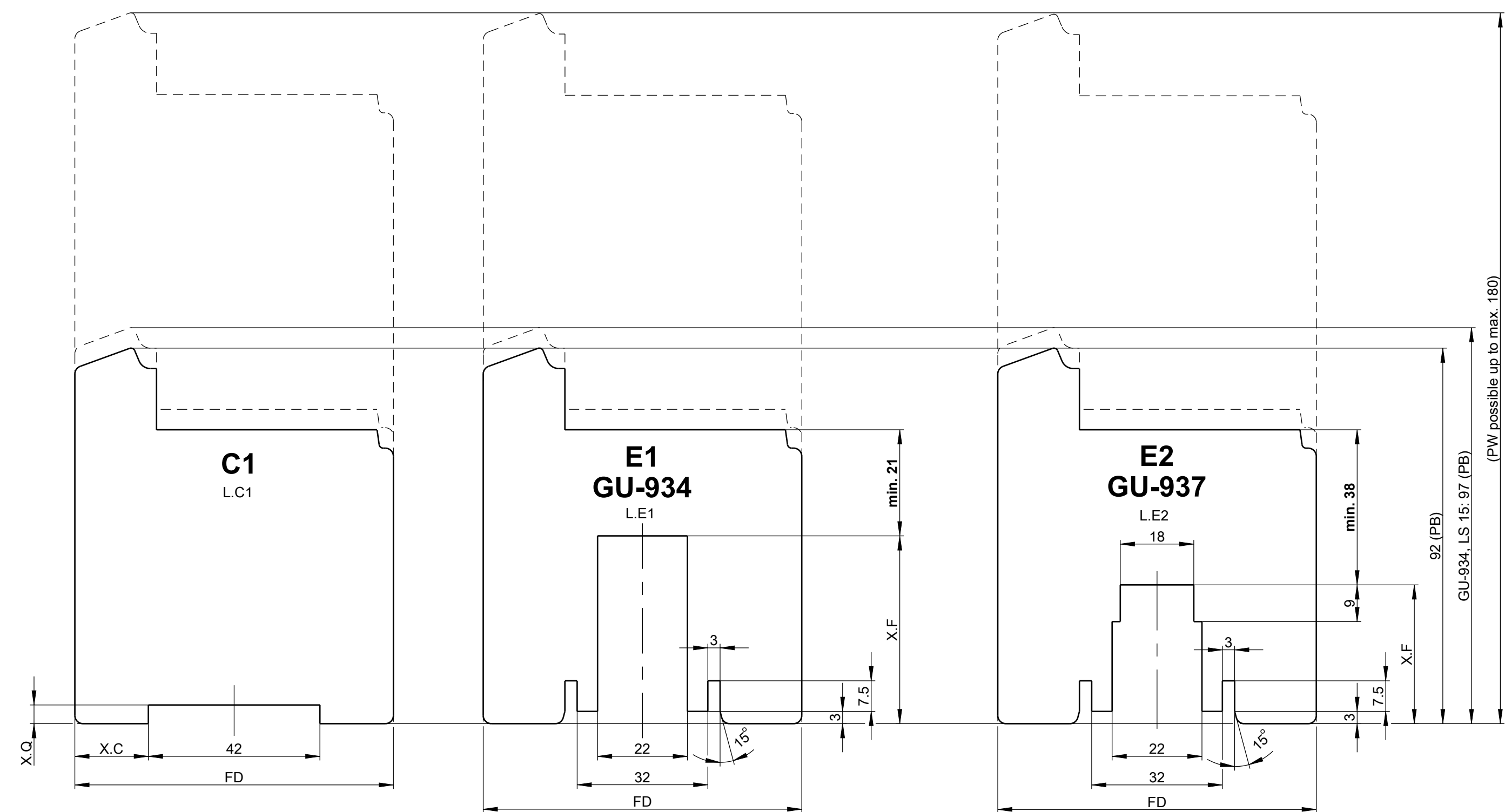
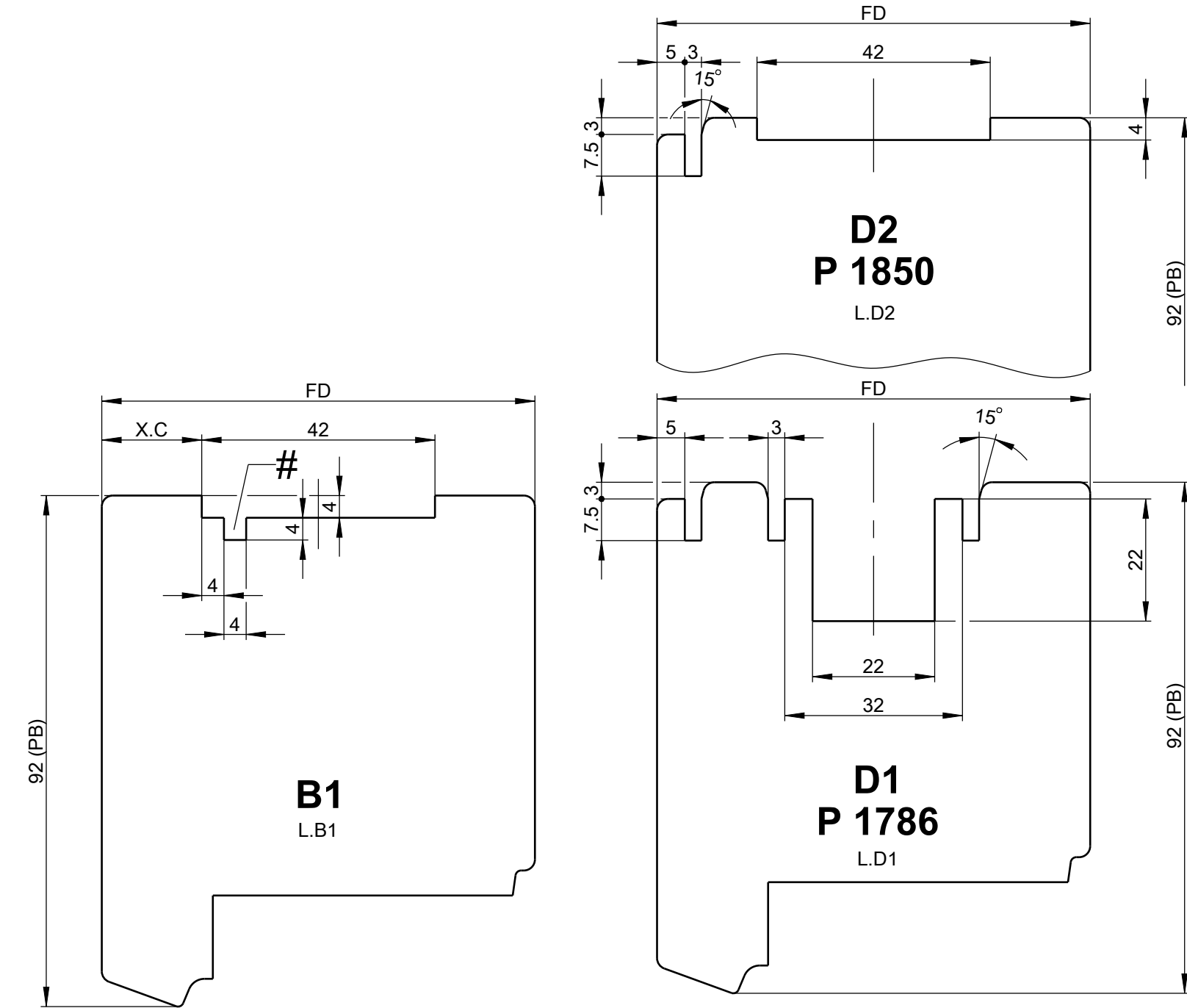
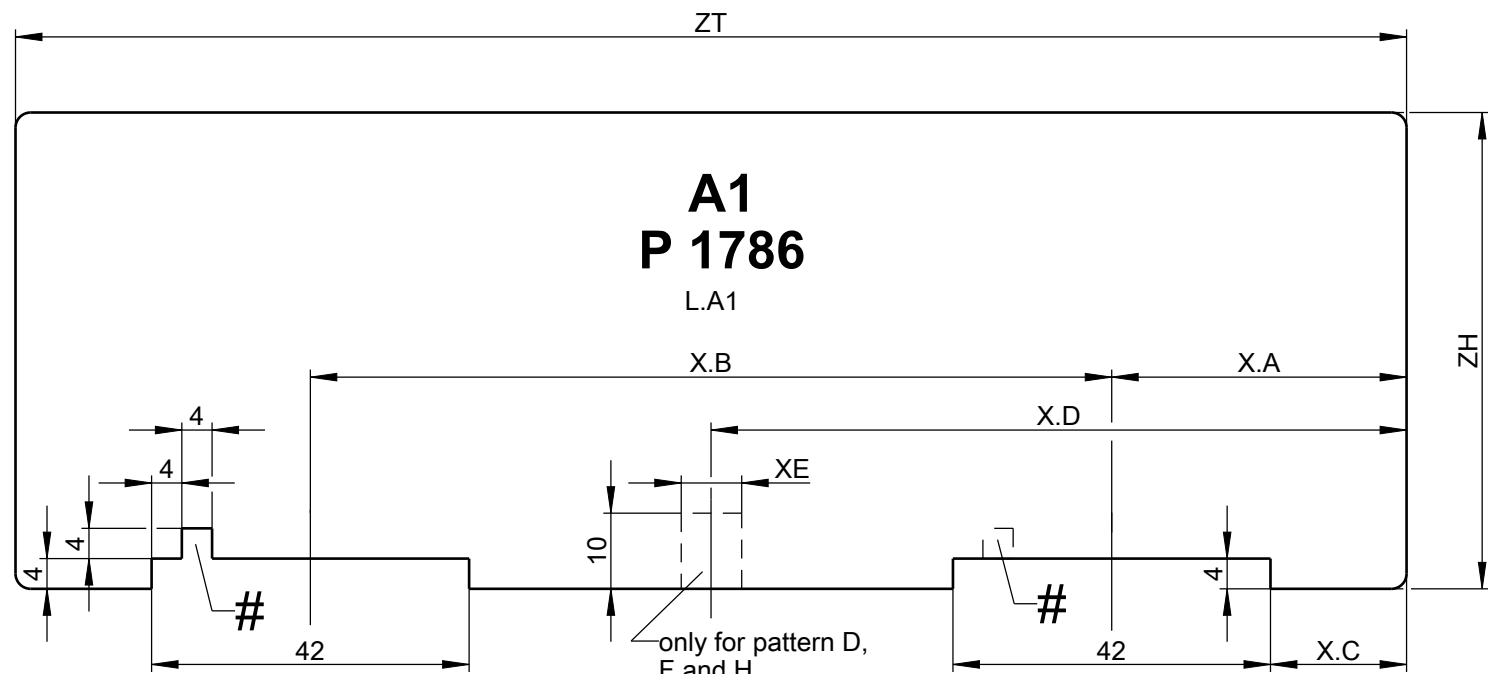
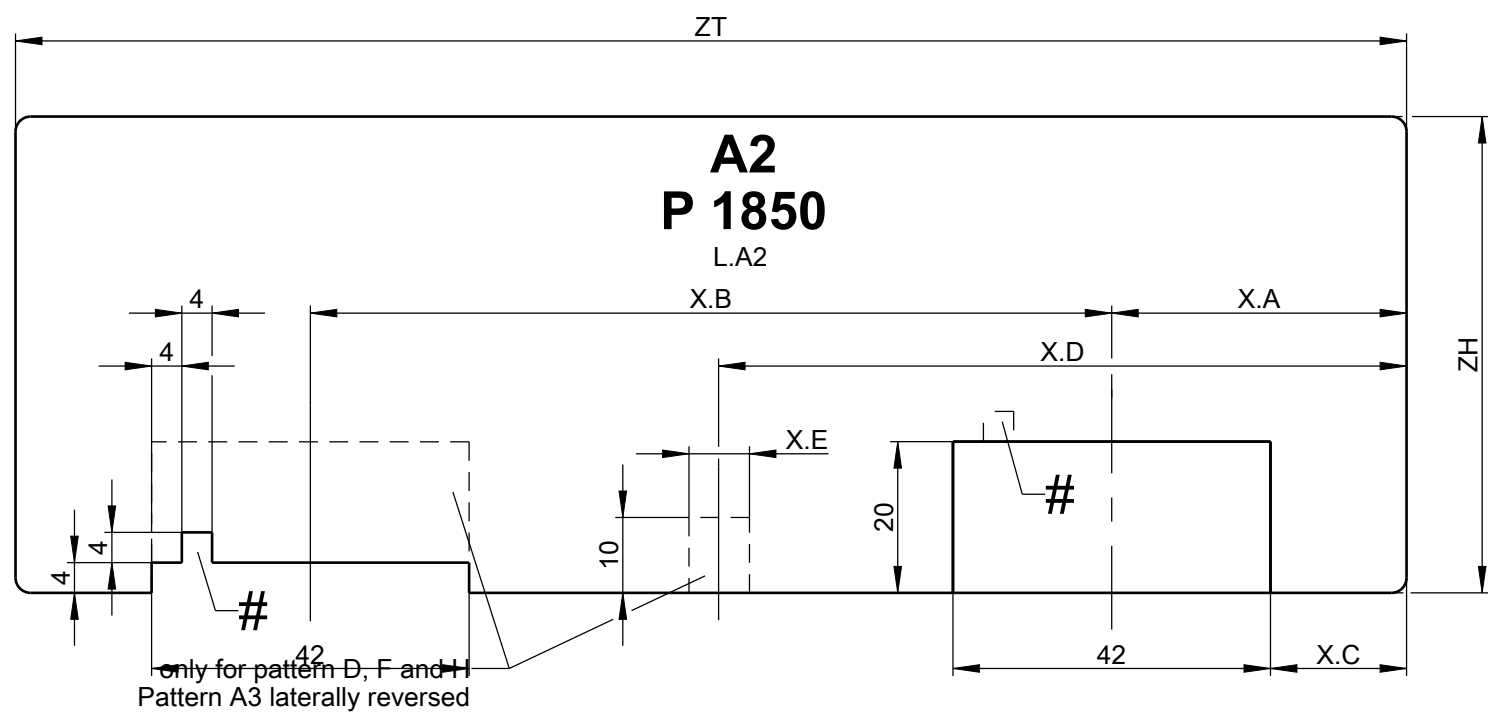
Drawings overview

Hardware	Sheet 2	Application range for GU-937:			
GU Lift&Slide profile sections	Sheet 3	Sash width FB	min. 700 mm	max. 3300 mm	
	Sheet 4	Sash height FH	min. 850 mm	max. 3250 mm	
		Sash weight FG		max. 200 kg	
Pattern A	Sheet 5	Application range for GU-934:			
Pattern A3	Sheet 6	Sash width FB	min. 700 mm	max. 3300 mm	
Pattern C	Sheet 7	Sash height FH	min. 850 mm	max. 3250 mm	
Pattern D	Sheet 8	Sash weight FG		max. 350 kg	
Pattern E	Sheet 9	Application range for GU-934 with tandem bogie:			
Pattern F	Sheet 10	Sash width FB	min. 1200 mm	max. 3300 mm	
Pattern G1	Sheet 11	Sash height FH	min. 850 mm	max. 3250 mm	
Pattern G2a	Sheet 12	Sash weight FG		max. 400 kg	
Pattern G3	Sheet 13	The sash height must not exceed 2.5 times the sash width.			
Pattern H	Sheet 14	Ordering specifications:			
Pattern K	Sheet 15	Pattern			
Pattern L	Sheet 16	Total frame width	RAB		
Meeting stile security profile	Sheet 17	Total frame height	RAH		
		Sash width	FB		
		Sash height	FH		
Installation aids	Sheet 18	Fixed-glazed sash width	FF		
Accessories	Sheet 19	FD Door leaf thickness	i	Inside	see calculation form
		FA Sash distance	m	Centered	
		ZB Frame profile width	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.

Threshold area see neutral installation drawing 0-48512-FV-0-0

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.



FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
LS	Roller track
PB	Profile width
ZH	Frame height
ZT	Frame depth
D	Backset
HLS	Height of roller track
LA1/3	Profile length A1 / A3
LA2/4	Profile length A2 / A4
LB1	Profile length B1
LC1/2	Profile length C1 / C2
LD1/2	Profile length D1 / D2
LE1/2	Profile length E1 / E2
LL1/3/5	Profile length L1 / L3 / L5
LL2/4/6	Profile length L2 / L4 / L6
LM1/2	Profile length M1 / M2
LS1/2	Profile length S1 / S2

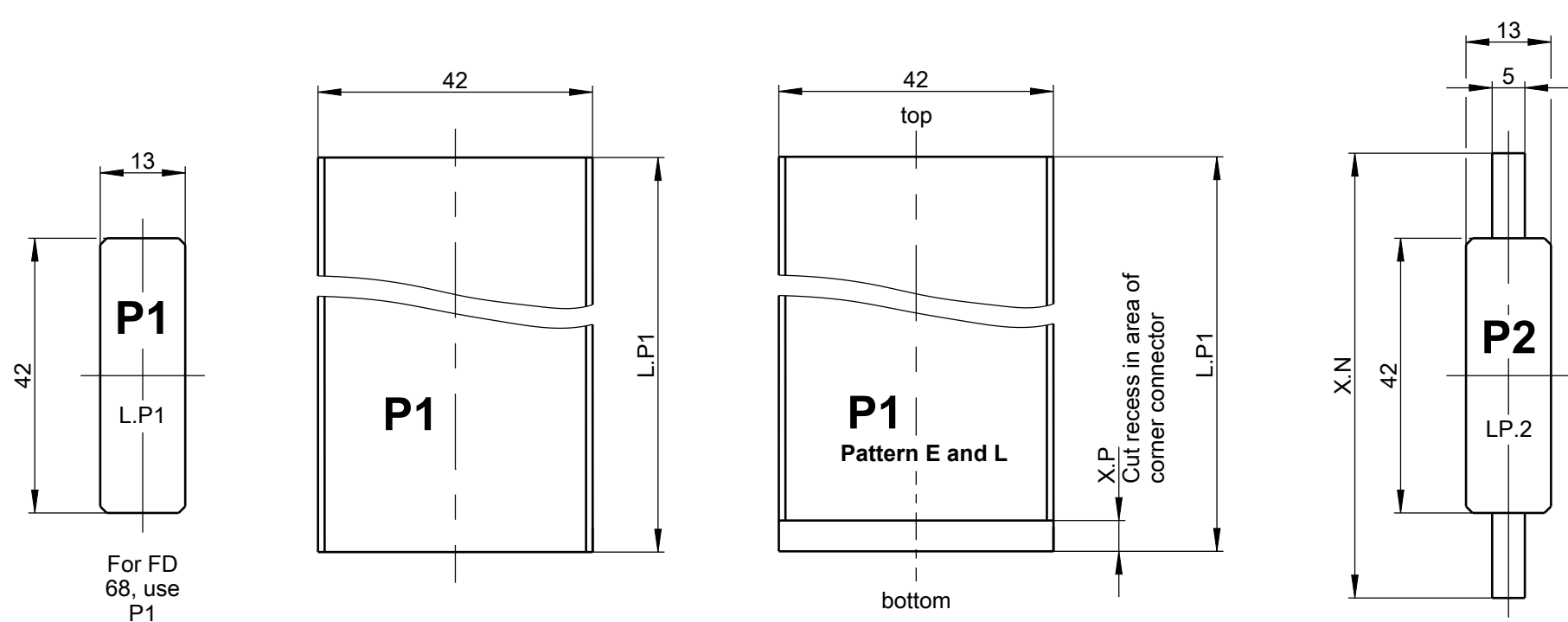
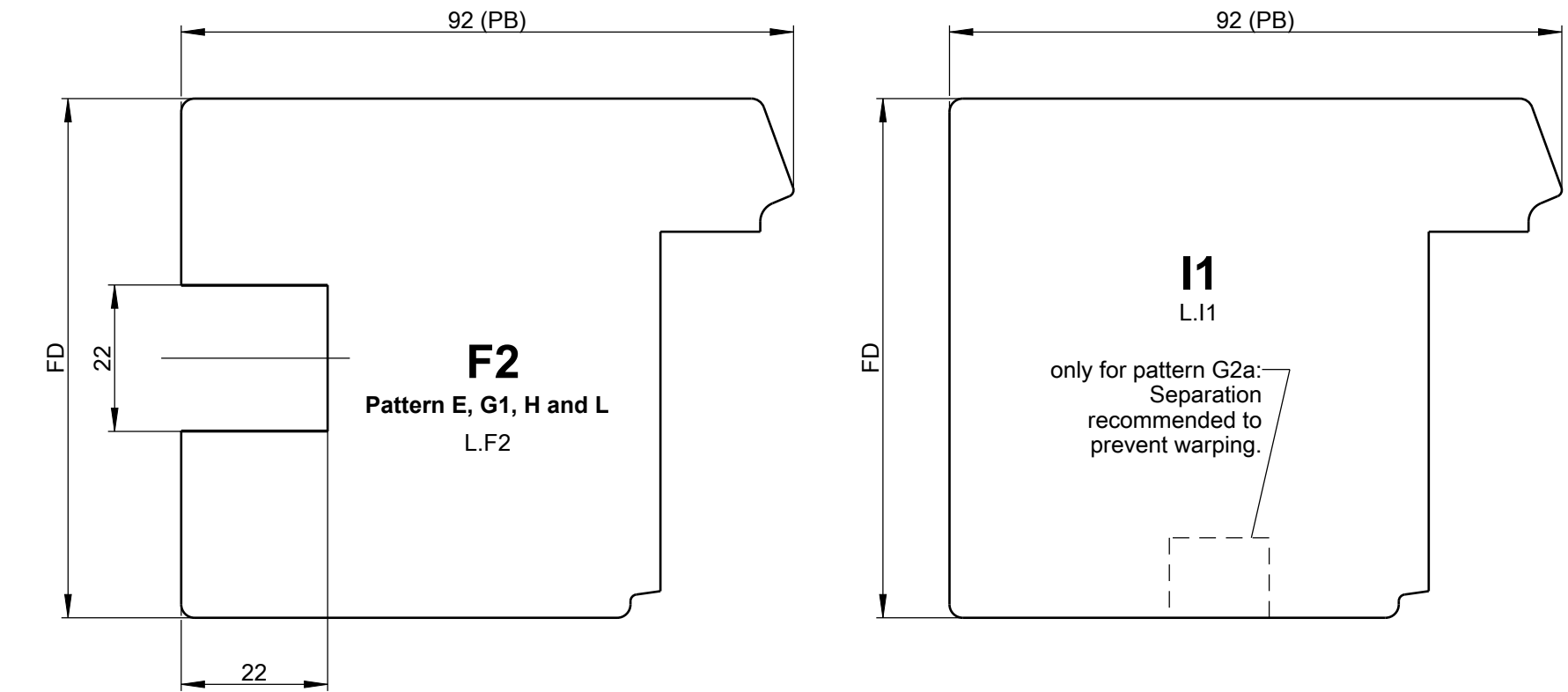
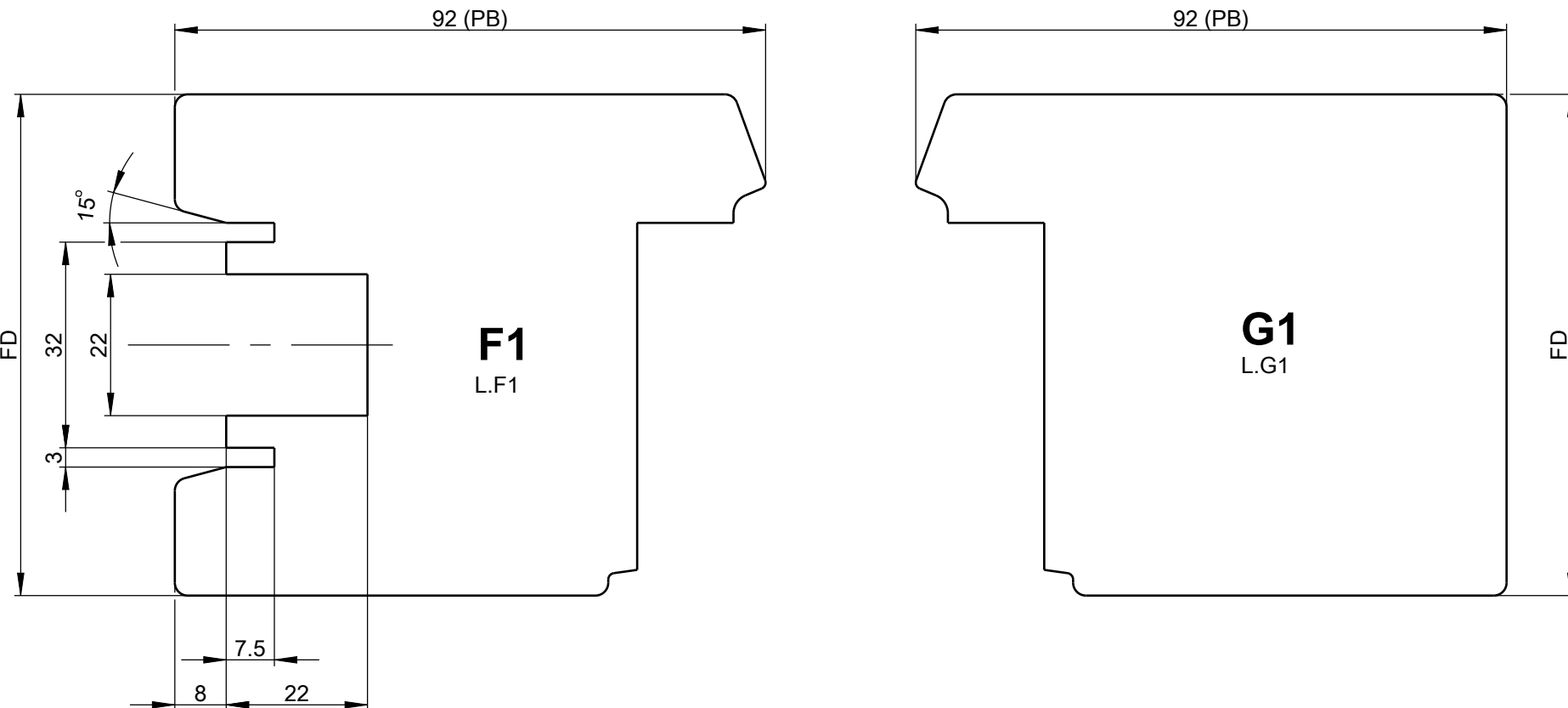
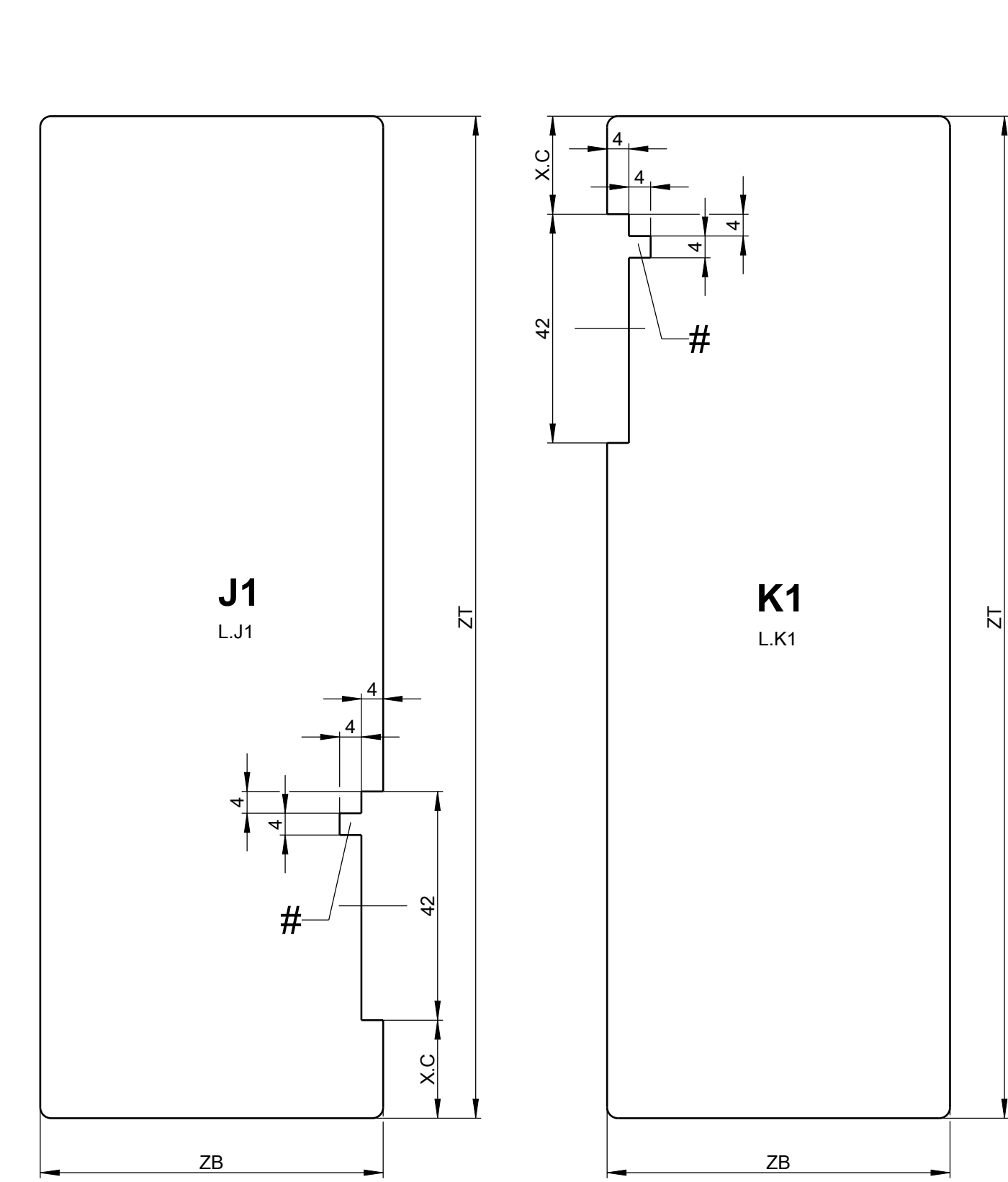
All dimensions are theoretically exact finished dimensions and do not include any machining allowances.

Chamfers not dimensioned 1x45°

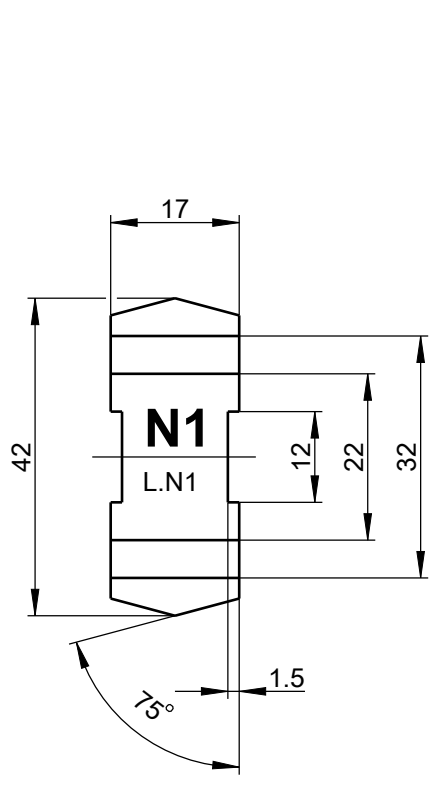
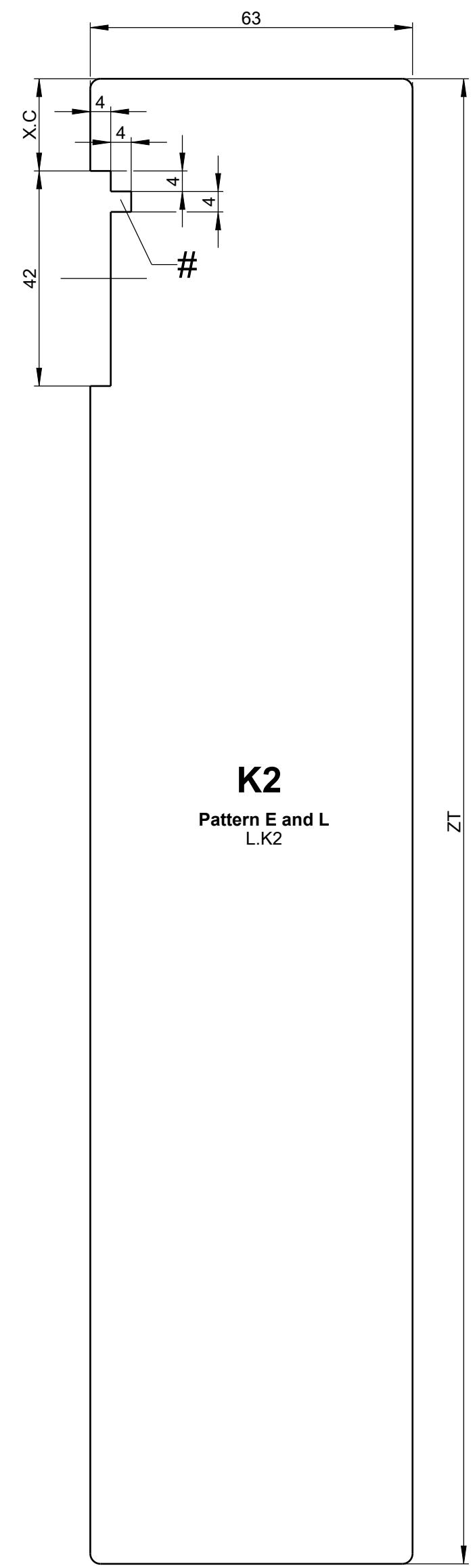
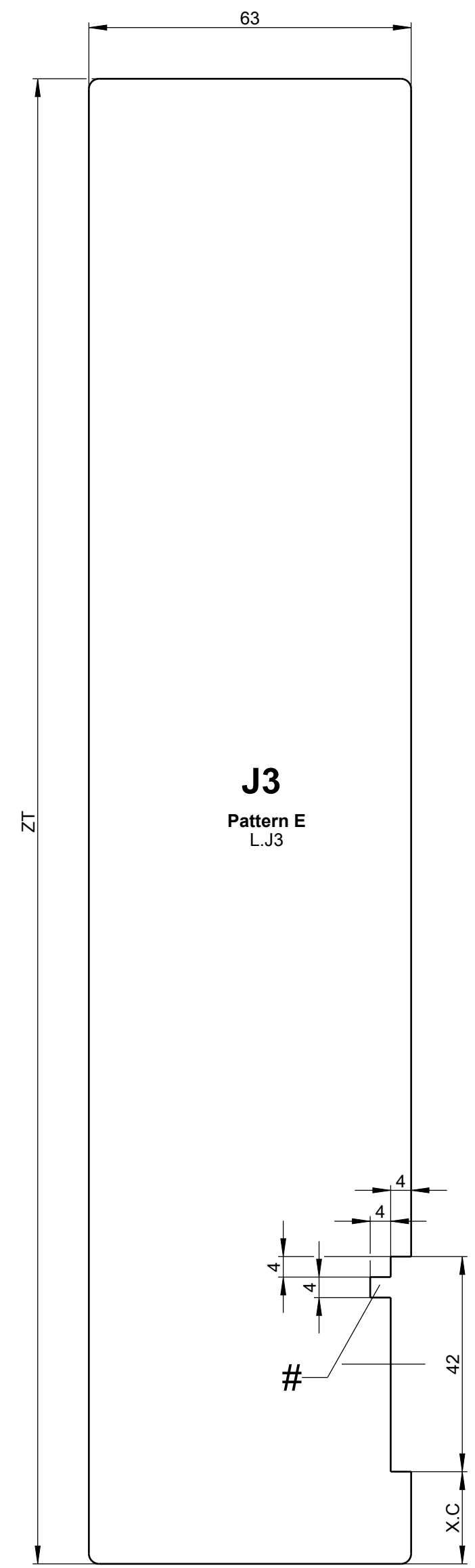
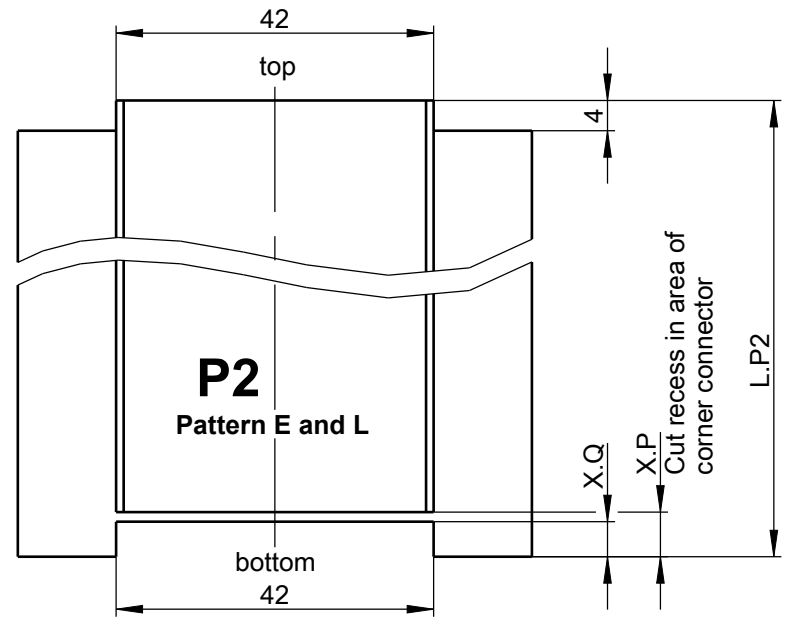
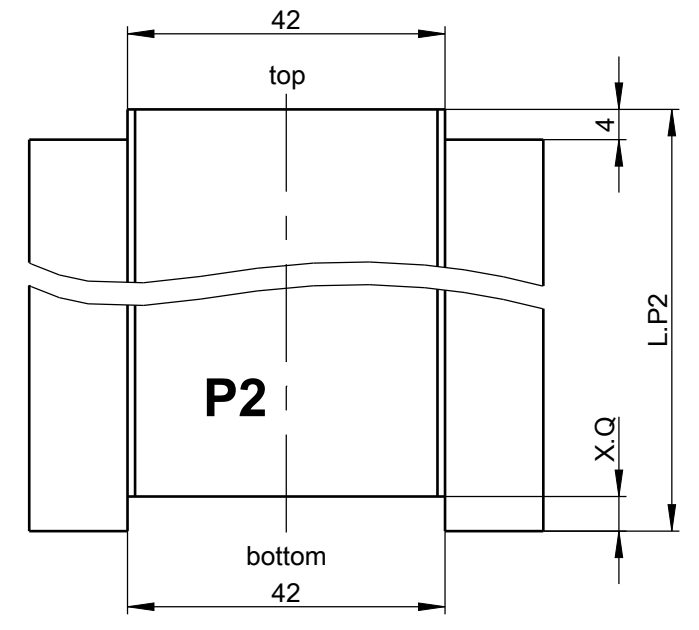
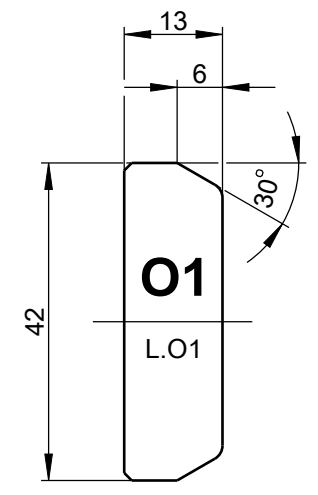
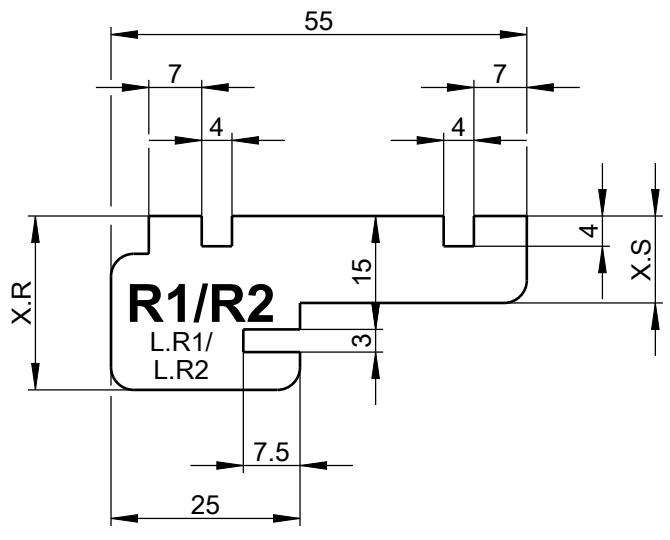
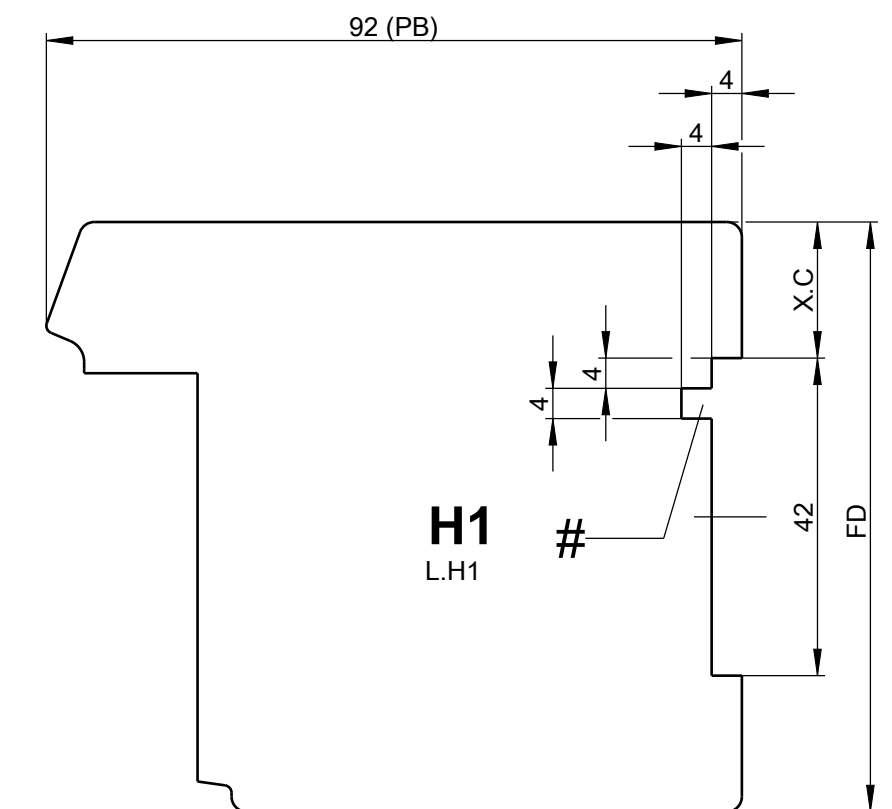
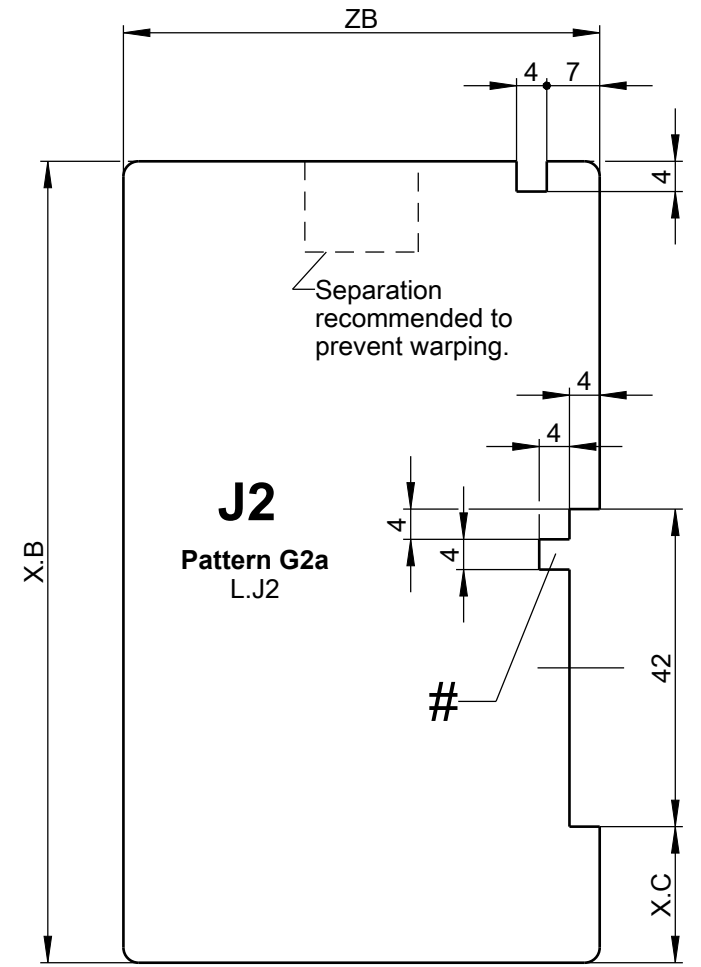
Item BS66 or alternative gasket

Depicted: FD 78, FA 28, ZB 63, LS 5

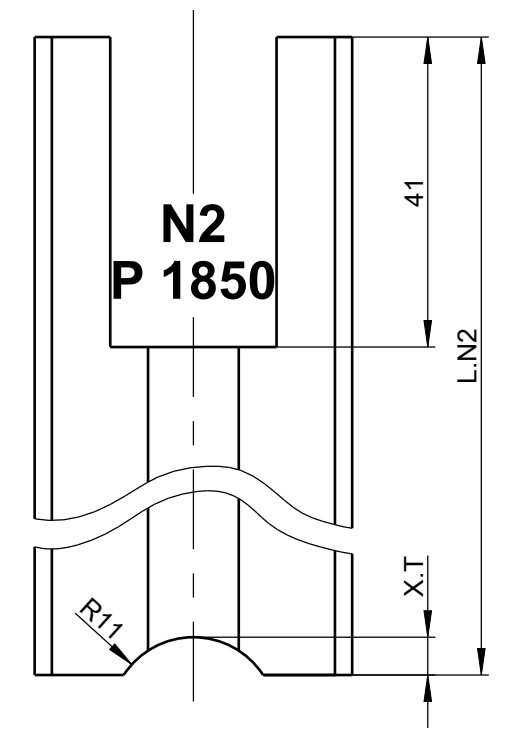
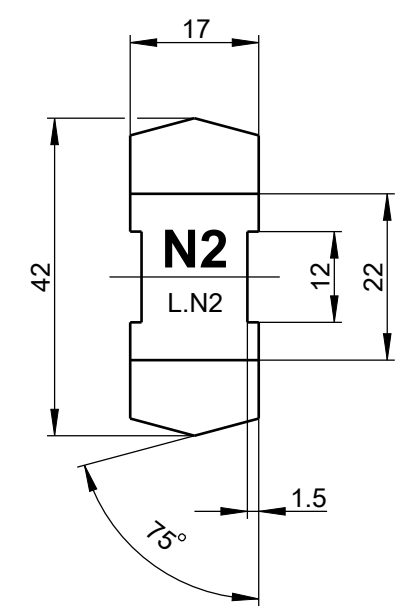
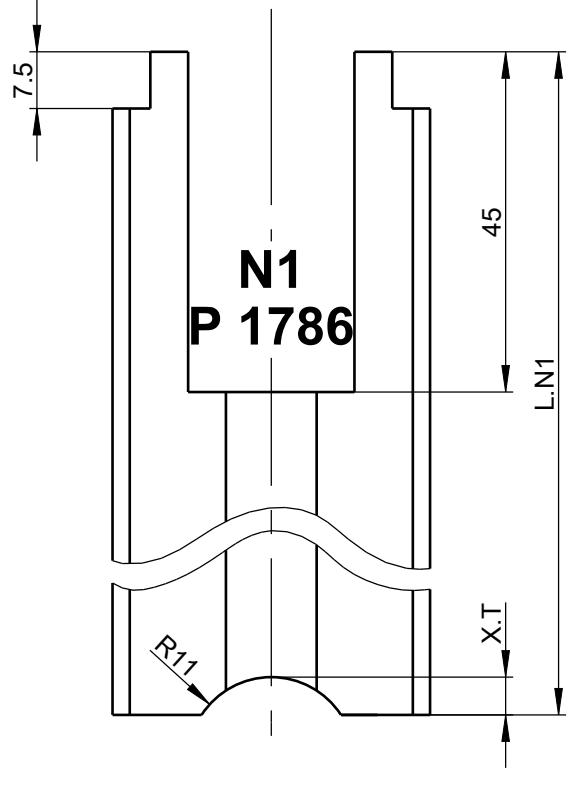
Description:
Lift&Slide elements, timber neutral
GU-934 / GU-937, P 1786 / P 1850
FD 68-110, FA 16-29, ZB 56-68



FD 78-110



Pattern C, F and L



All dimensions are theoretically exact finished dimensions and do not include any machining allowances.

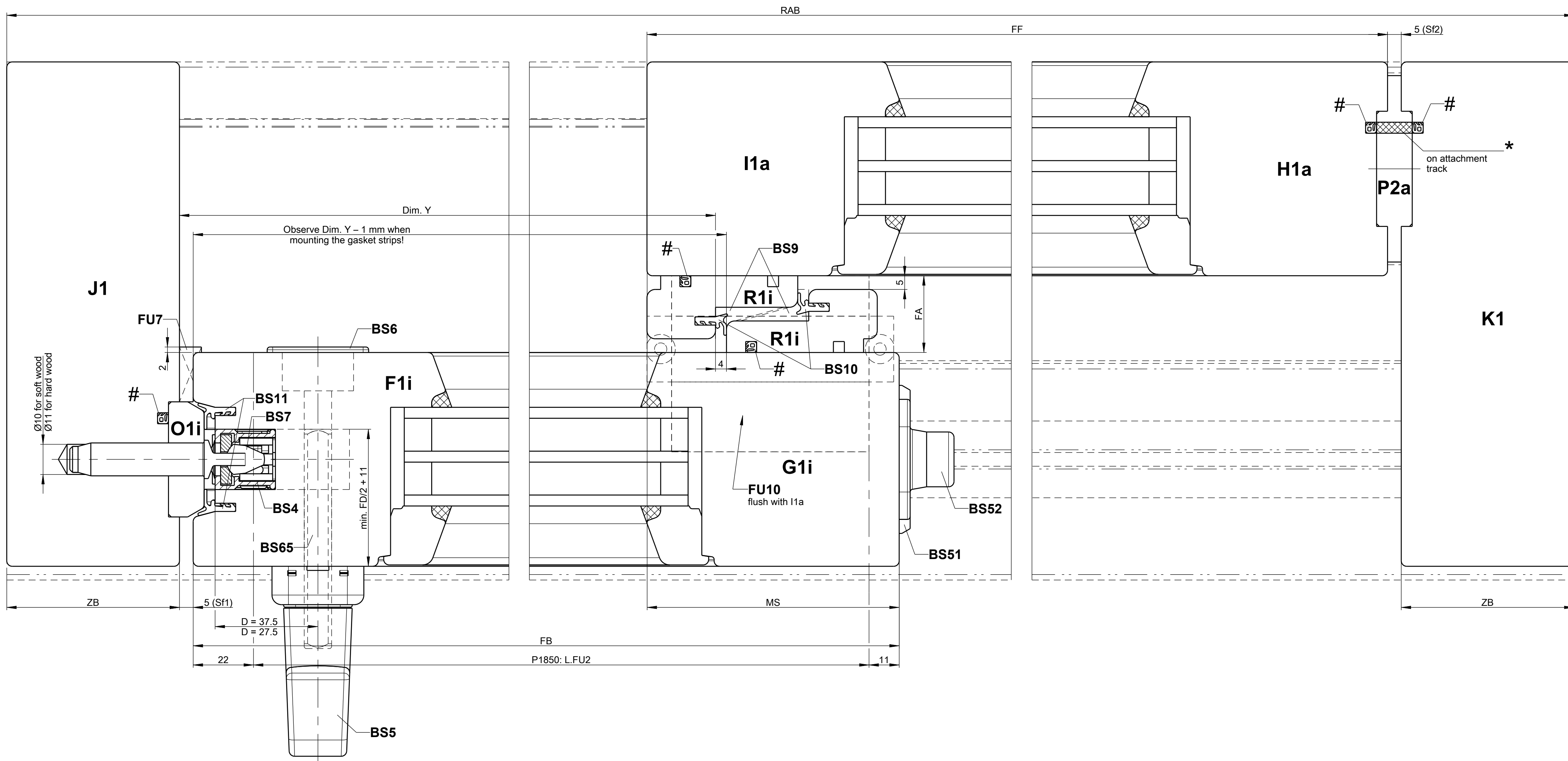
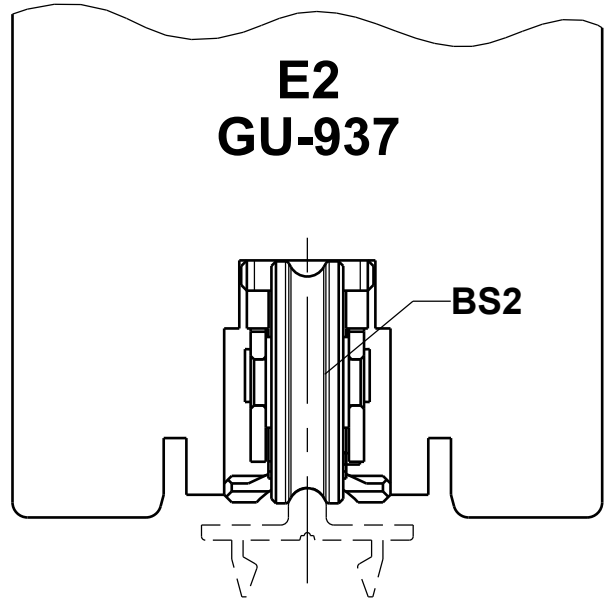
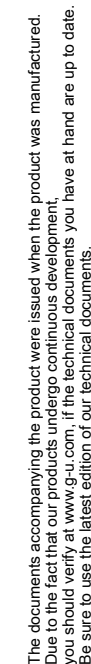
Chamfers not dimensioned 1x45°

Item BS66 or alternative gasket

Depicted: FD 78, FA 28, ZB 63, LS 5

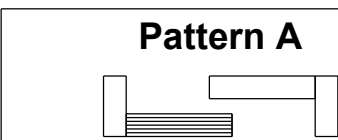
Description:
Lift&Slide elements, timber neutral
GU-934 / GU-937, P 1786 / P 1850
FD 68-110, FA 16-29, ZB 56-68

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
LS	Roller track
PB	Profile width
ZT	Frame depth
L.F1/2	Profile length F1 / F2
L.G1	Profile length G1
L.H1	Profile length H1
L.I1	Profile length I1
L.J1/2/3	Profile length J1 / J2 / J3
L.K1/2	Profile length K1 / K2
L.N1	Profile length N1
L.O1	Profile length O1
L.P1/2	Profile length P1 / P2
L.R1/2	Profile length R1 / R2



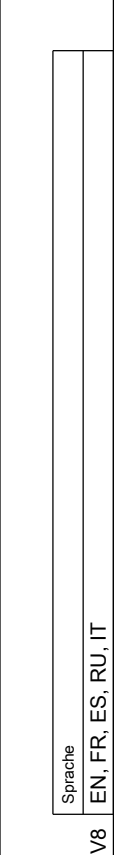
l	Inside	see calculation form
m	Centered	
a	Outside	
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FB	Sash width	
FF	Fixed-glazed sash width	
RAB	Total frame width	
PB	Profile width	
Sf1	Shadow gap 1	
Sf2	Shadow gap 2	
D	Backset	
MS	Meeting stile	
L.FU2	Length of guide track 2	
ZH	Frame height	
FHi	Sash height Inside	
FHa	Sash height Outside	
RAH	Total frame height	
H.SW1	Threshold height	
Spu	Gap at bottom	
Spo	Gap at top	

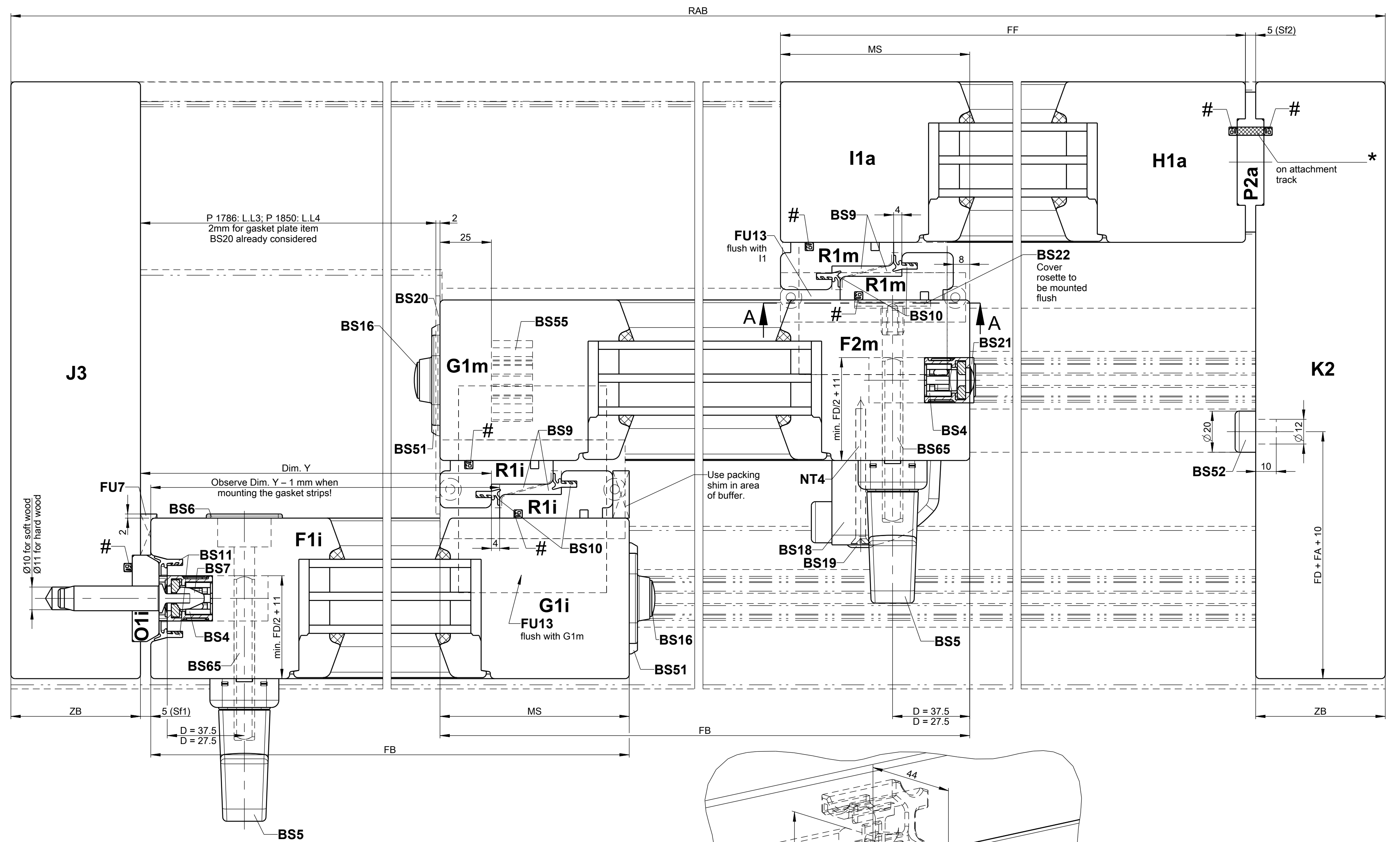
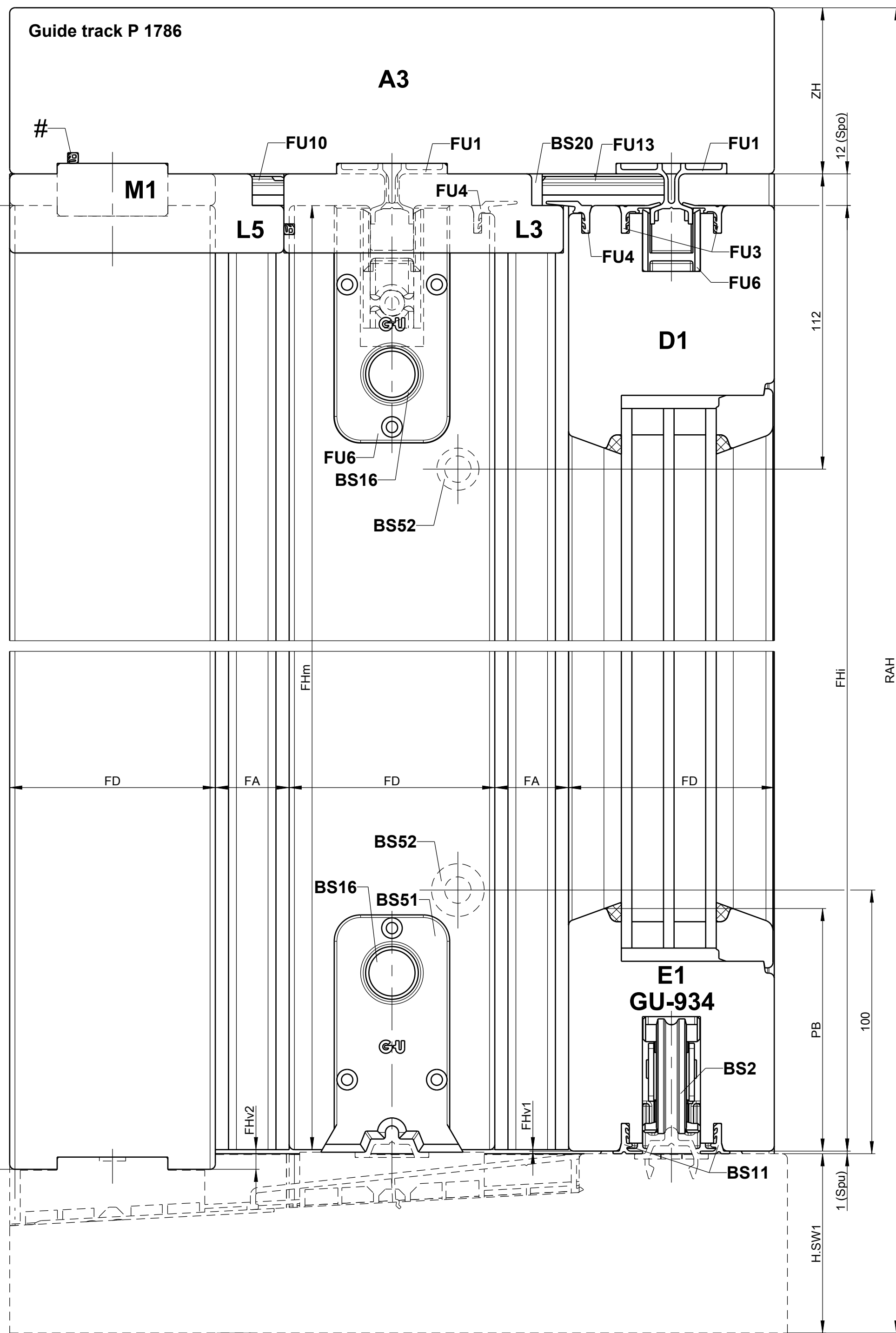
Item BS66 or alternative gasket



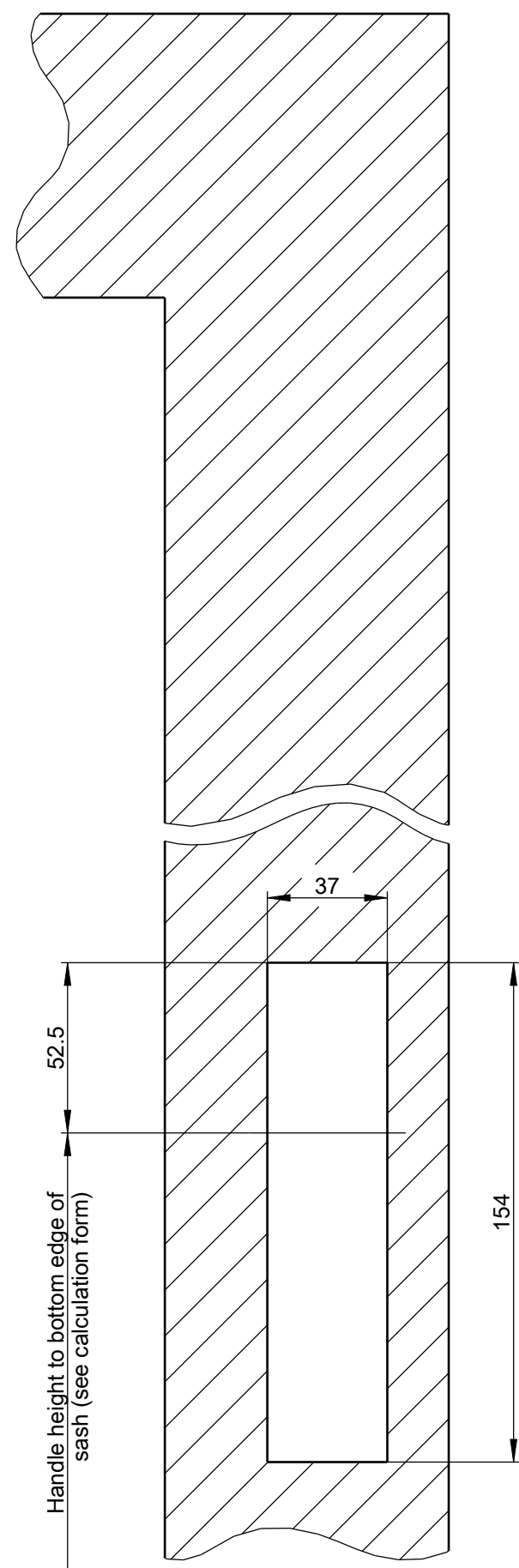
Depicted: FD 78, FA 28, ZB 63

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



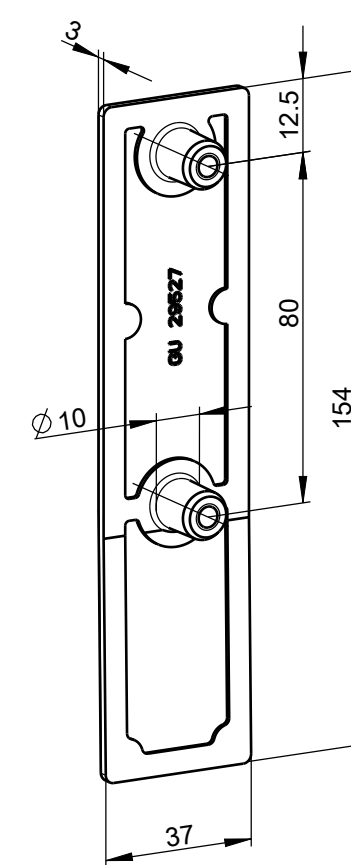


A-A

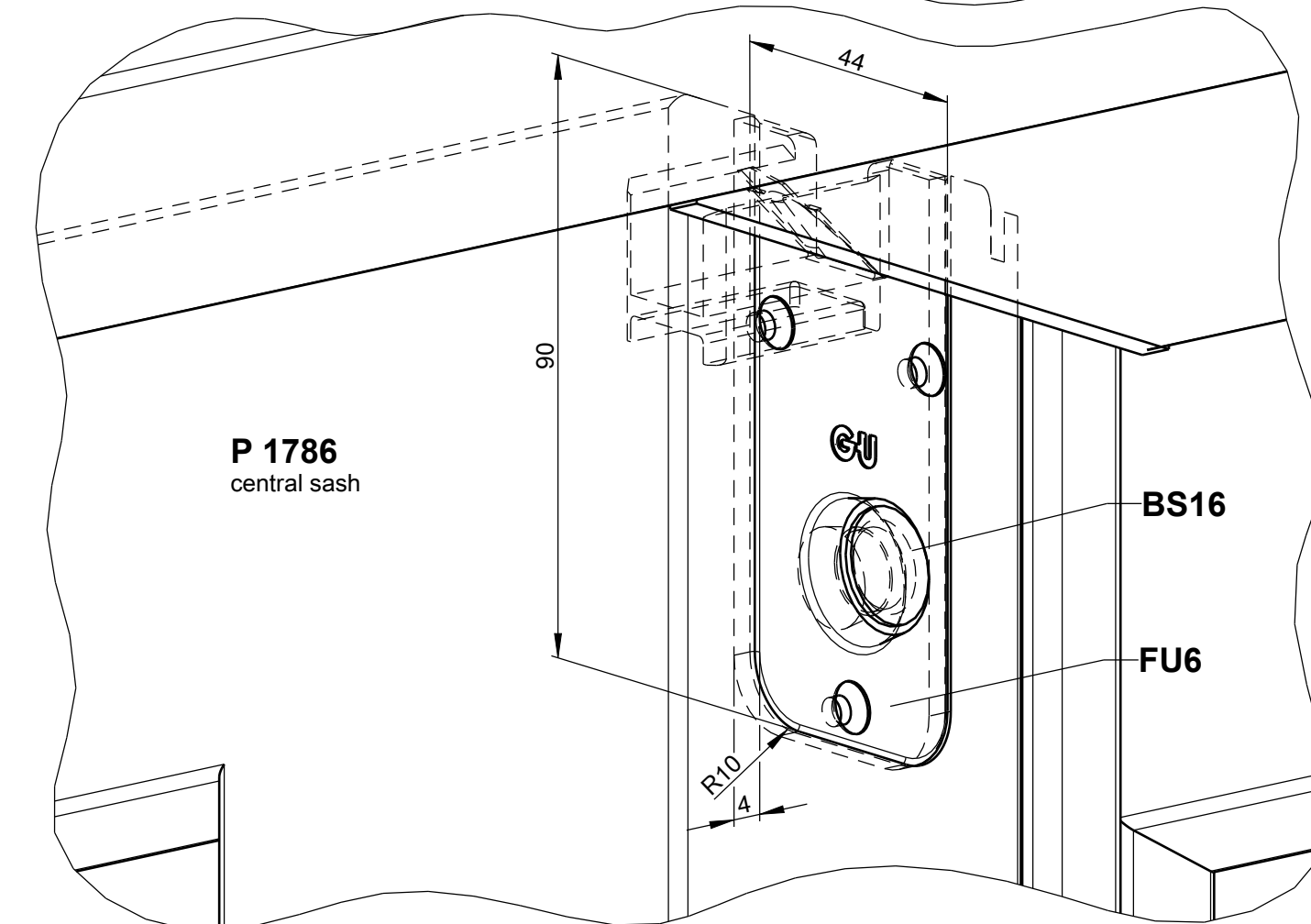
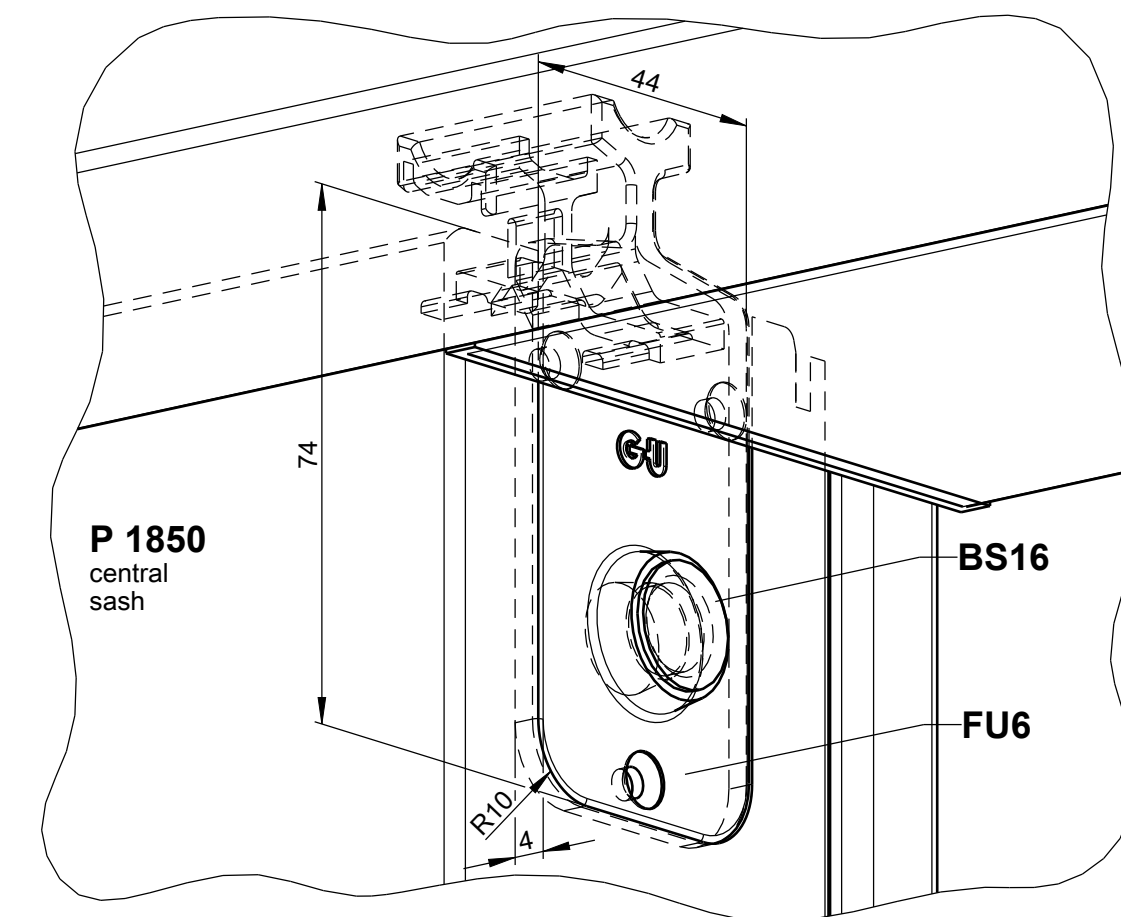
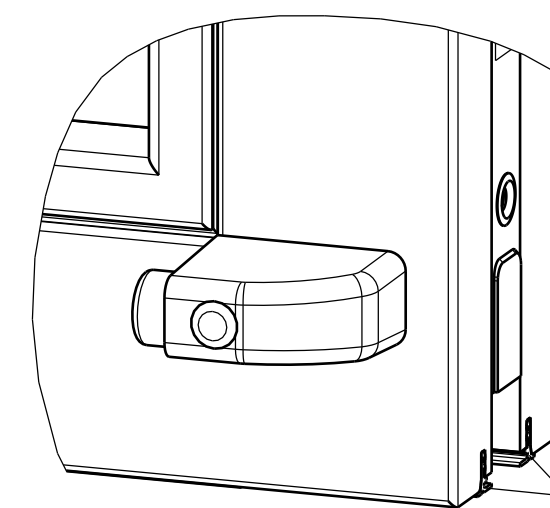


Milling dimensions for
cover rosette (item BS22)

alternative handle fixing
with drive-in nut M6



central sash

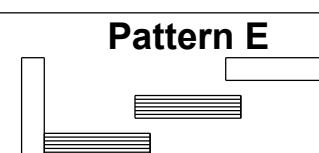


- * seal

Item BS66 or alternative gasket

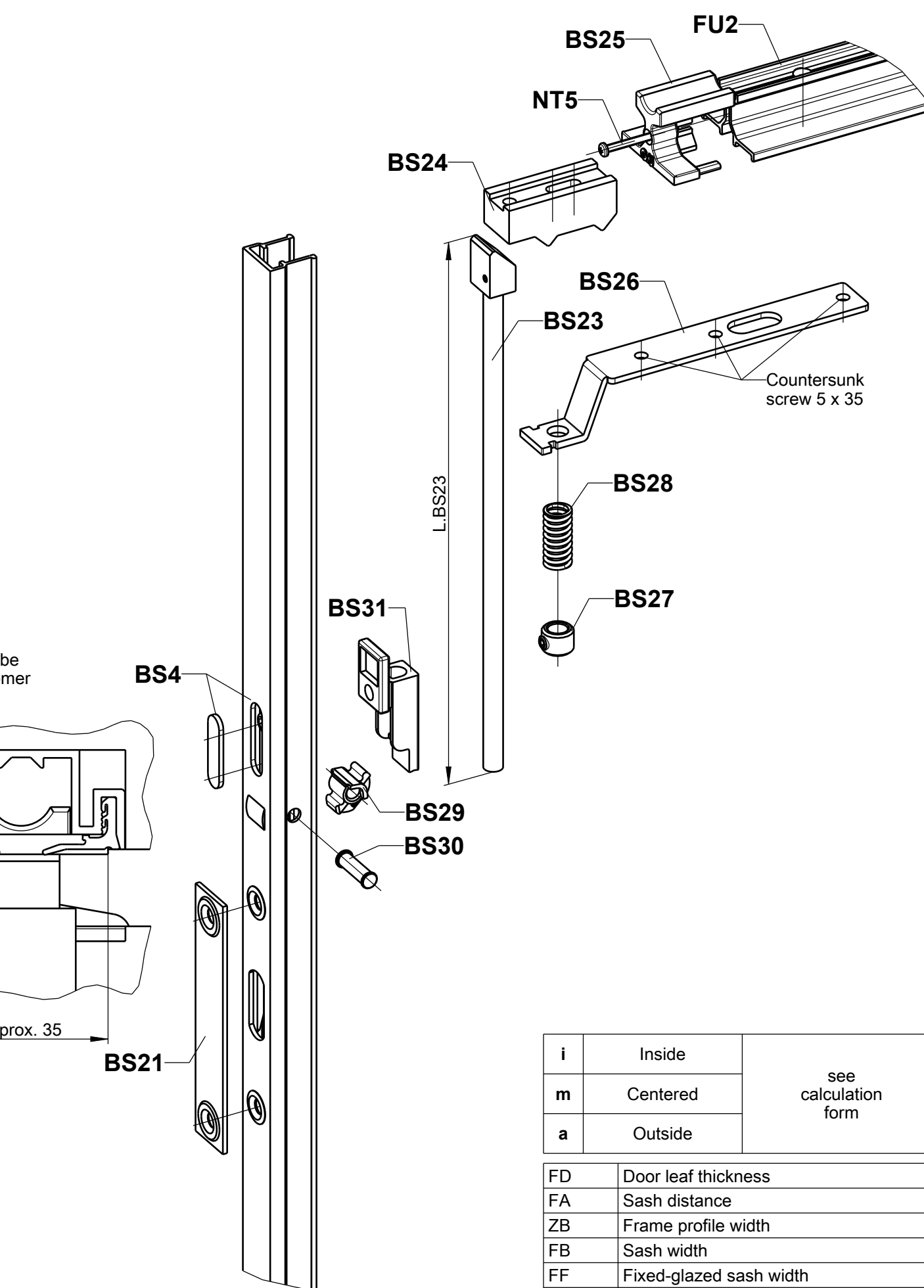
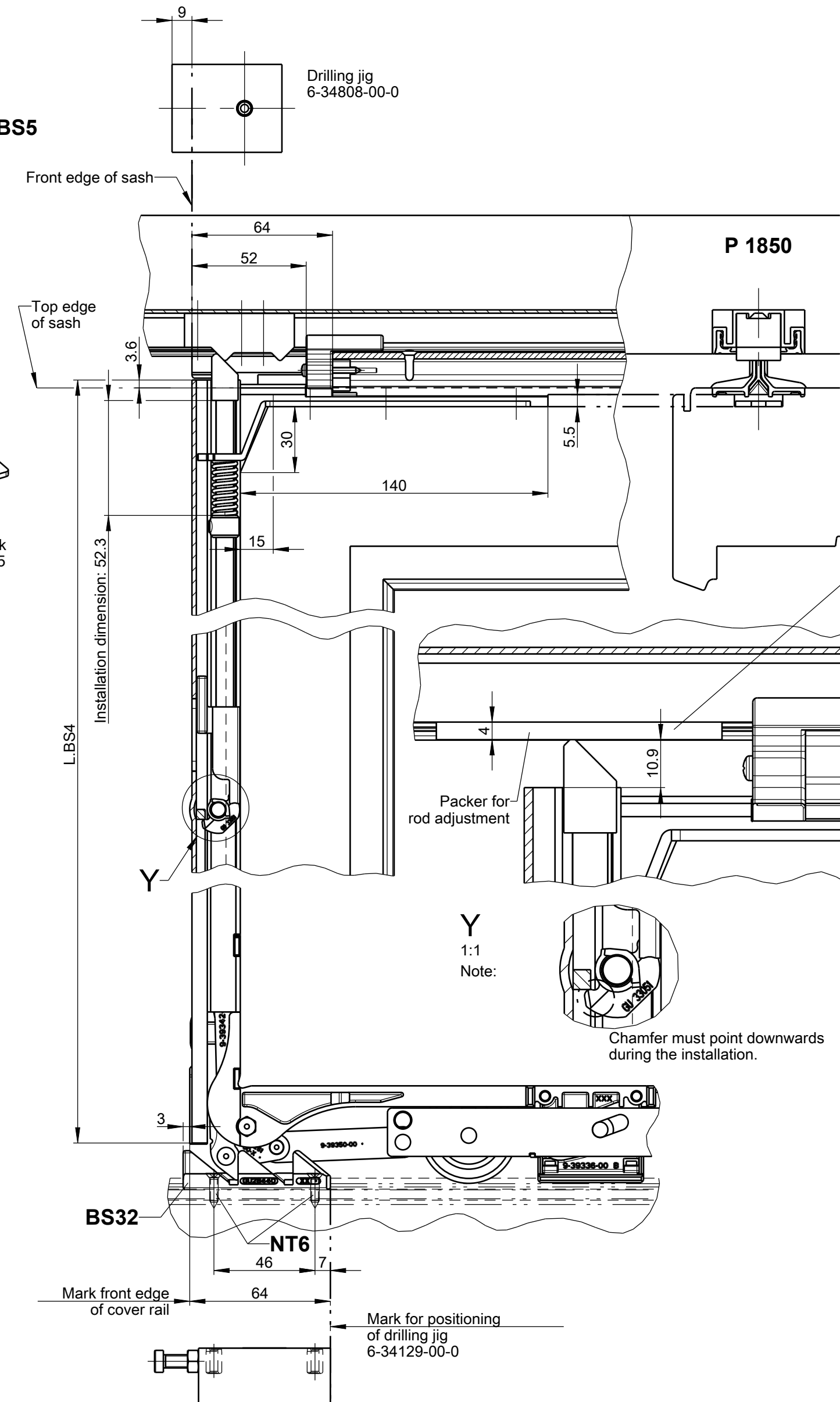
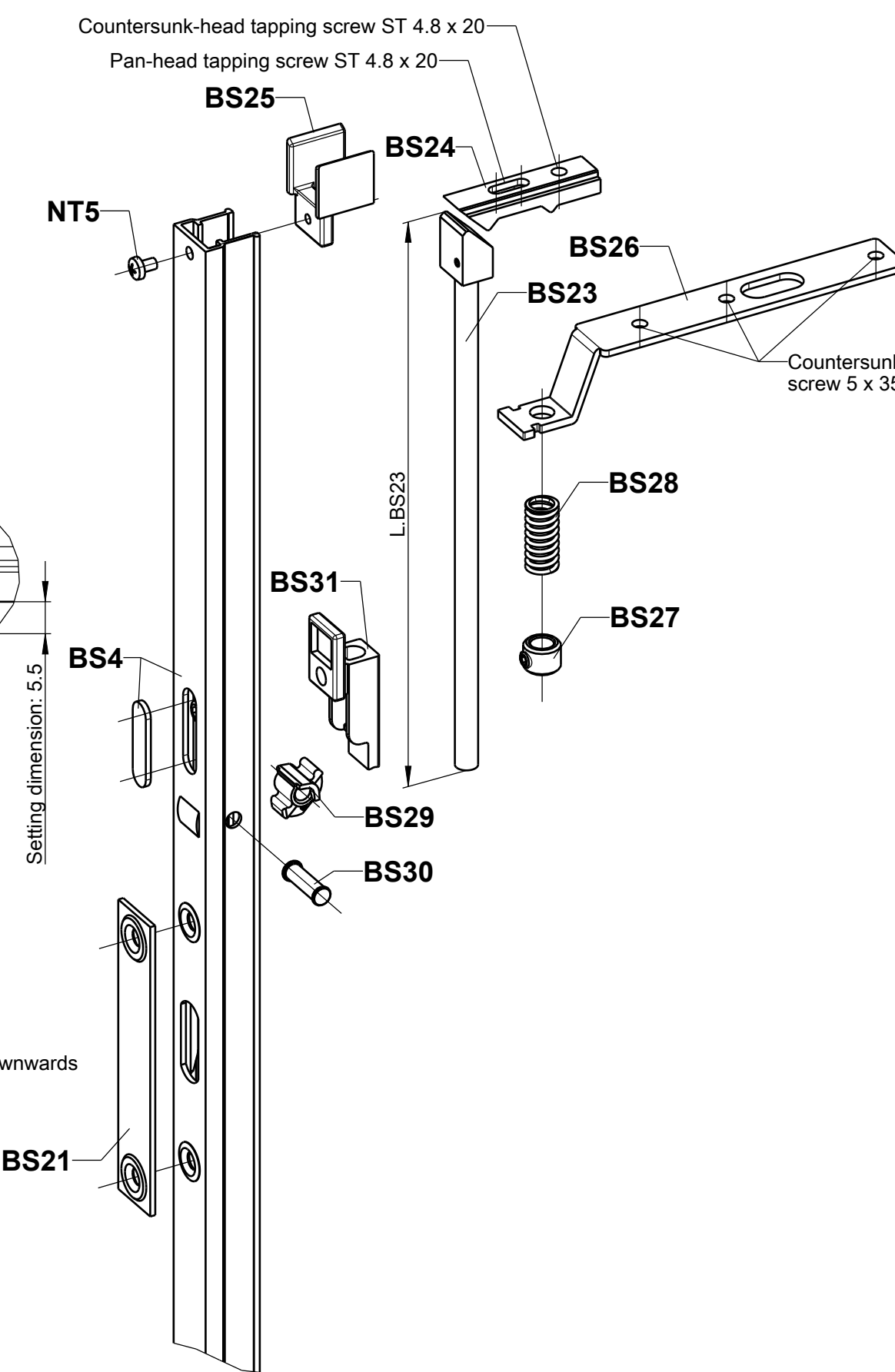
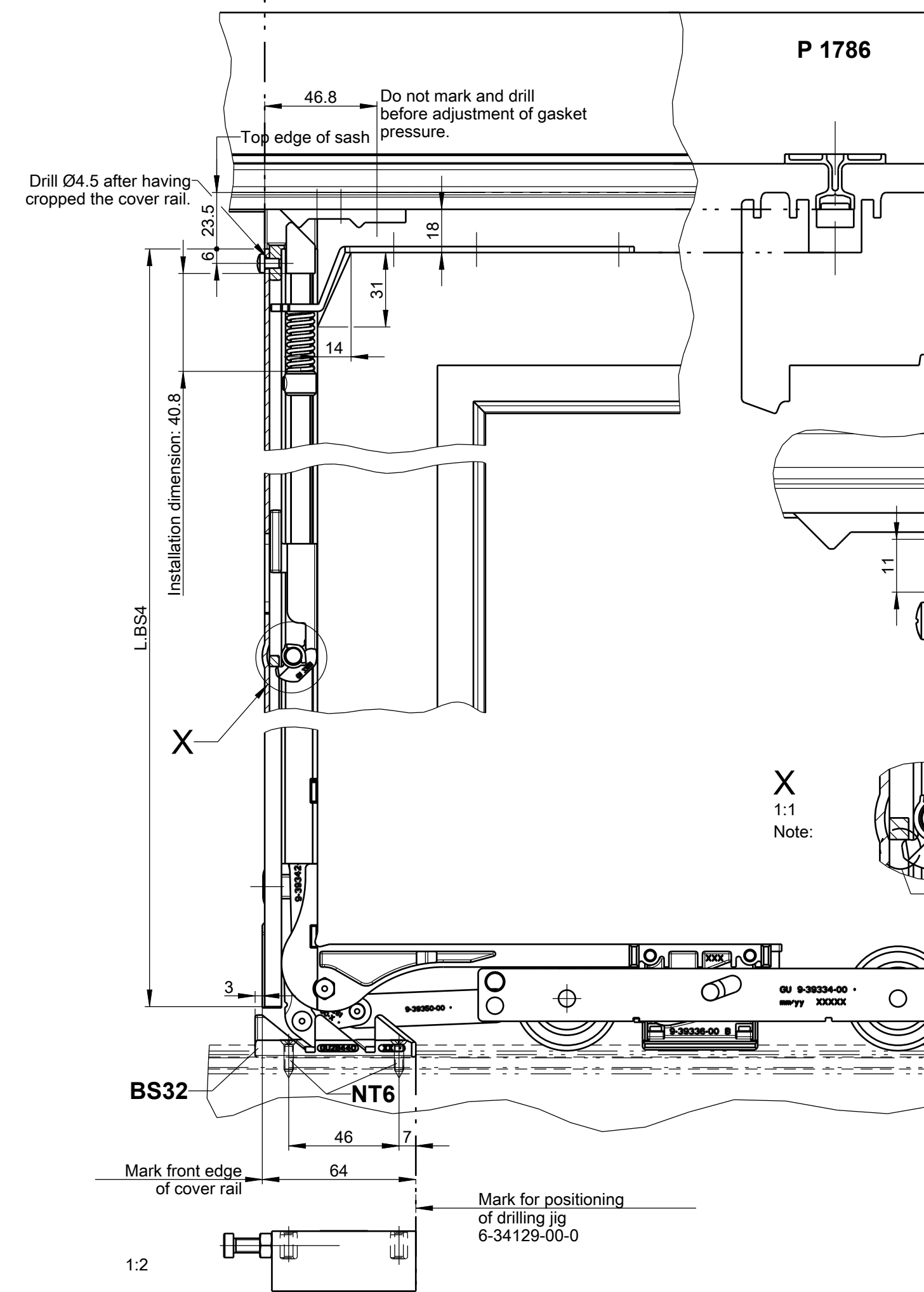
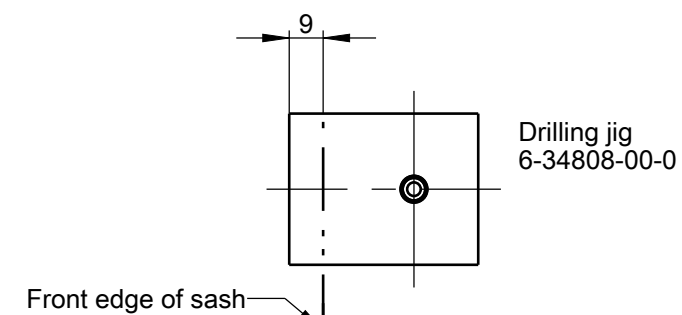
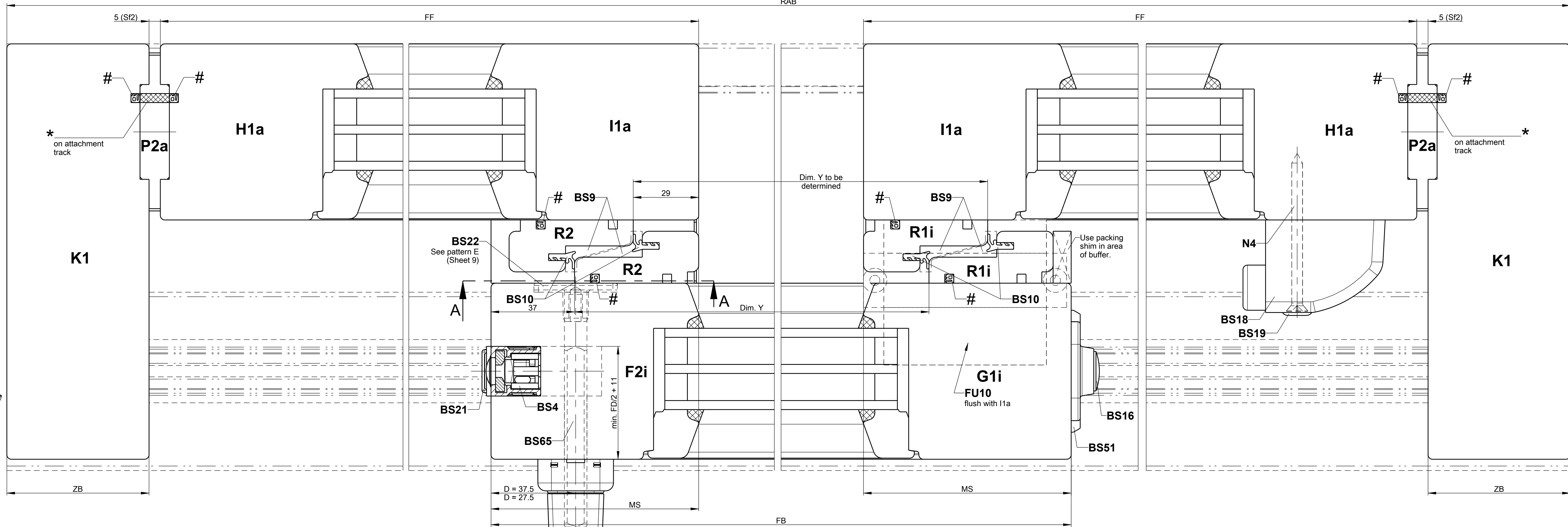
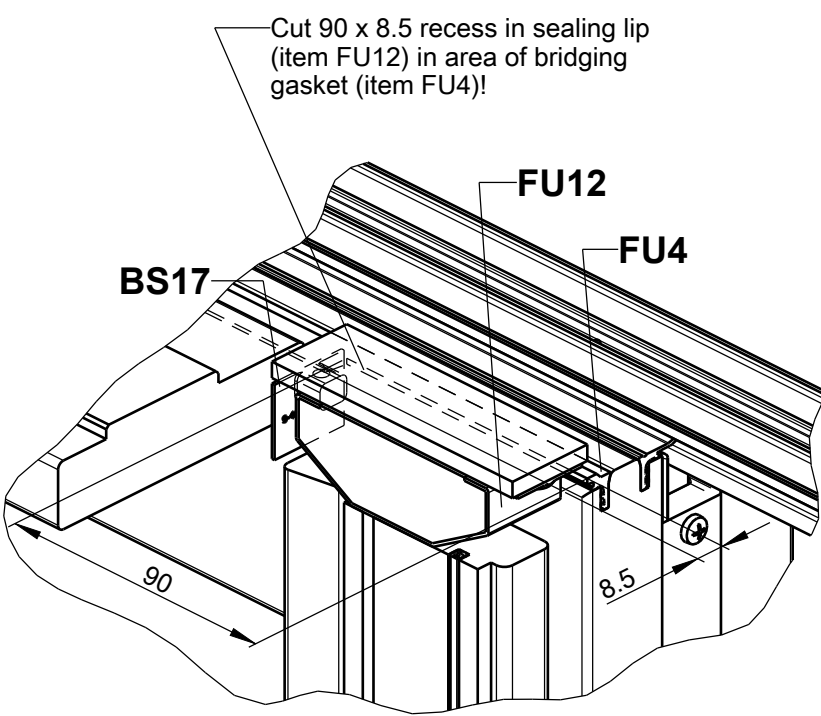
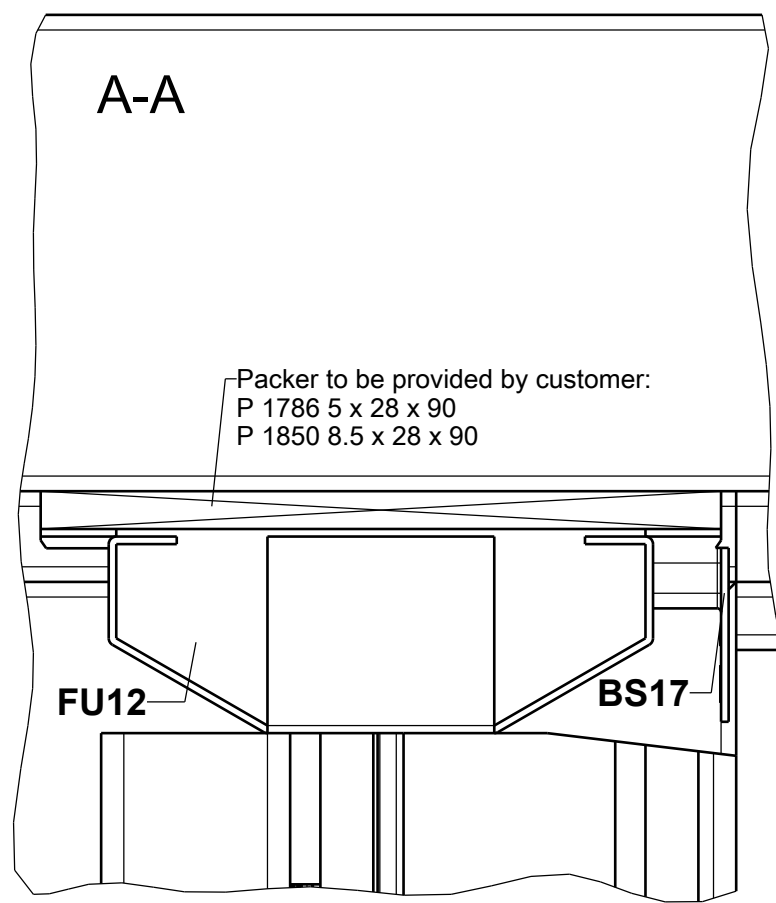
Depicted: FD 78, FA 28, ZB 63

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



i	Inside	see calculation form
m	Centered	
a	Outside	
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FB	Sash width	
FF	Fixed-glazed sash width	
RAB	Total frame width	
PB	Profile width	
Sf1	Shadow gap 1	
Sf2	Shadow gap 2	
D	Backset	
MS	Meeting stile	
ZH	Frame height	
FHi	Sash height Inside	
FHm	Sash height Centered	
FHa	Sash height Outside	
RAH	Total frame height	
H.SW1	Threshold height	
Spu	Gap at bottom	
Spo	Gap at top	
FHv1	Sash height offset 1	
FHv2	Sash height offset 2	

Pattern E



Vertical section see pattern A (Sheet 5)

* seal

Item BS66 or alternative gasket

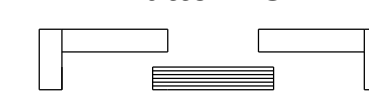
Depicted: FD 78, FA 28, ZB 63

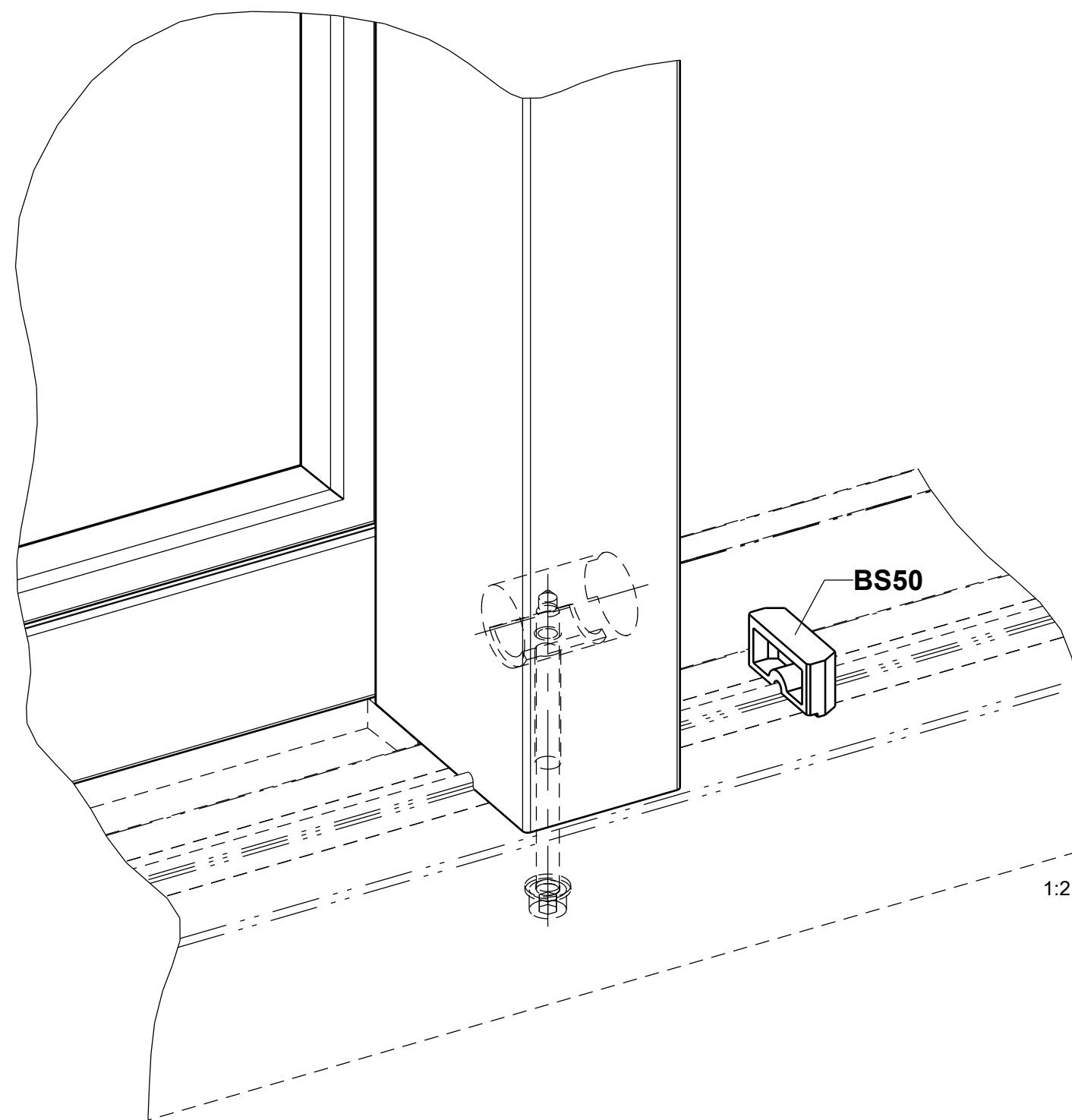
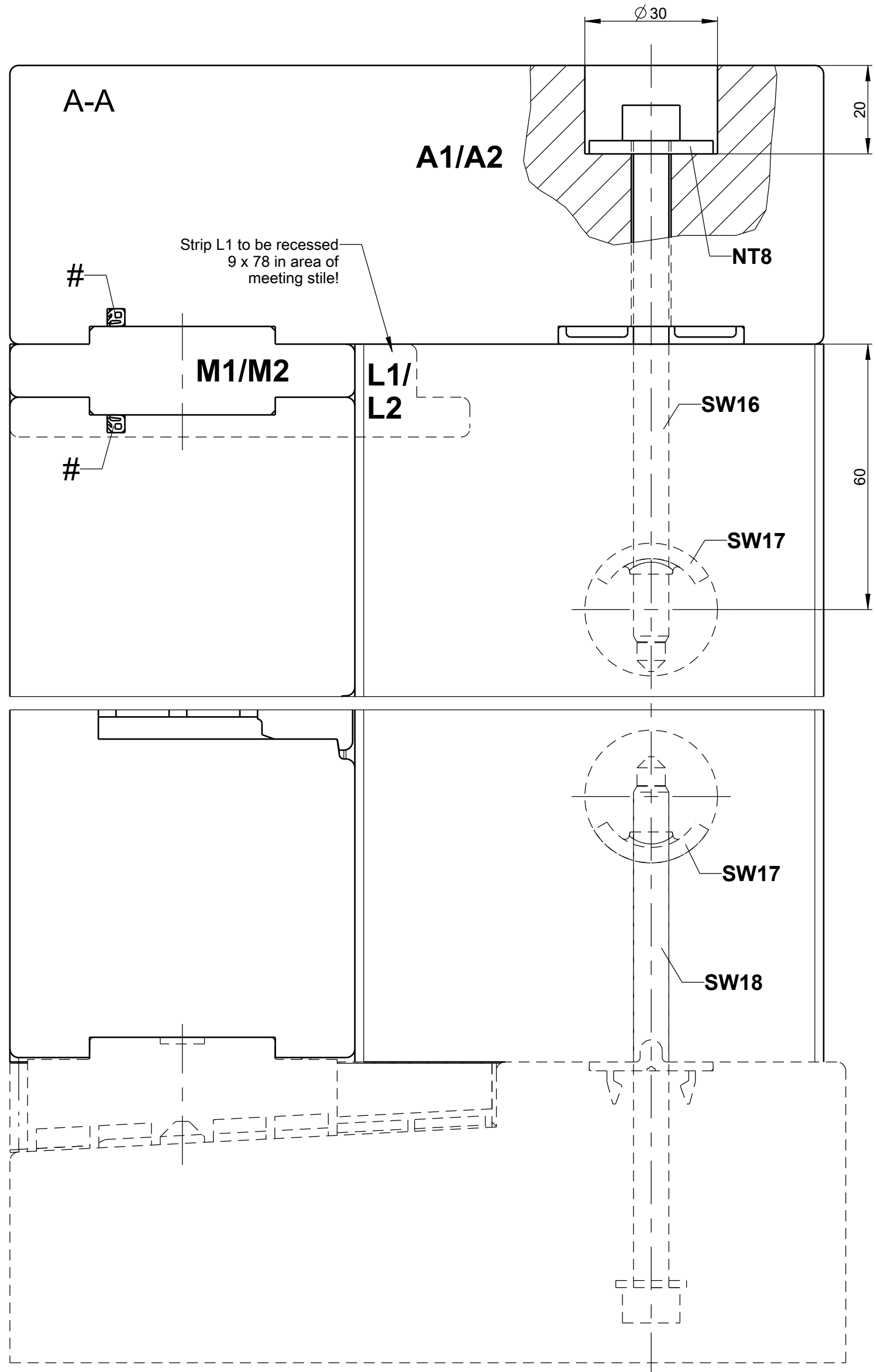
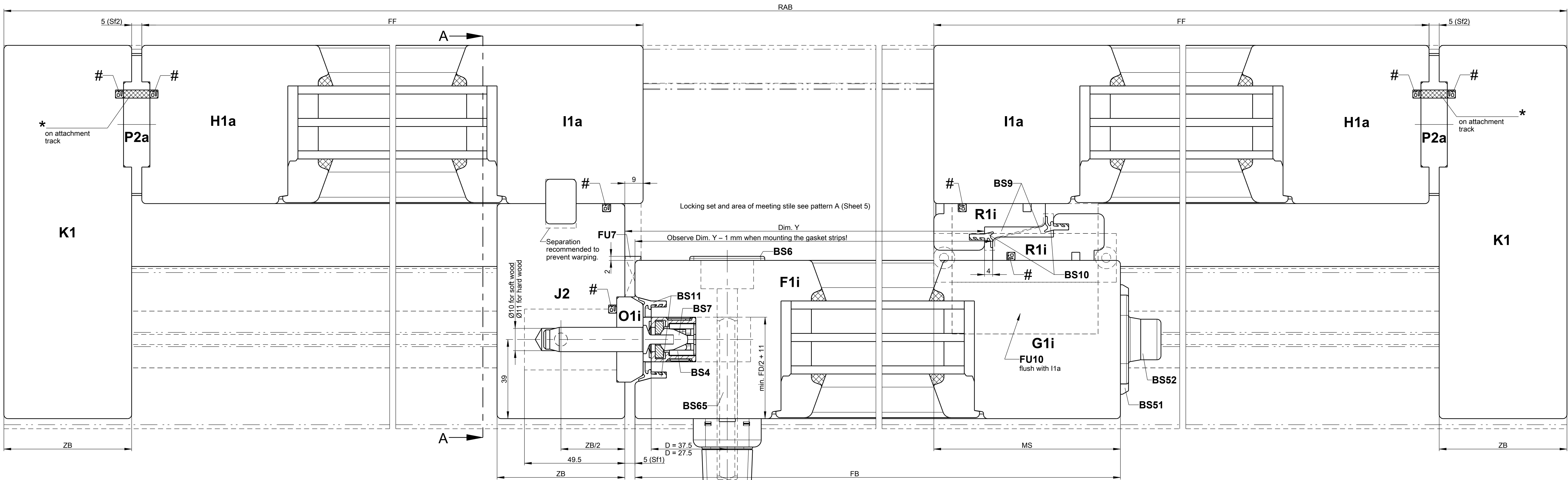
Description:
Lift&Slide elements, timber neutral
GU-934 / GU-937, P 1786 / P 1850
FD 68-110, FA 16-29, ZB 56-68

GU 14.02.2020 Change No. 3 G34699 Sig Mj Ver. De Replacement for 1 82 Released Scale: Drawing No. 0-48511-FJ-EN Size: Sheet A1 11/19

i	Inside	see calculation form
m	Centered	
a	Outside	
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FB	Sash width	
FF	Fixed-glazed sash width	
RAB	Total frame width	
Sf2	Shadow gap 2	
D	Backset	
MS	Meeting stile	
L.BS4	Length of Lift&Slide gear	
L.BS23	Rod length	

Pattern G1





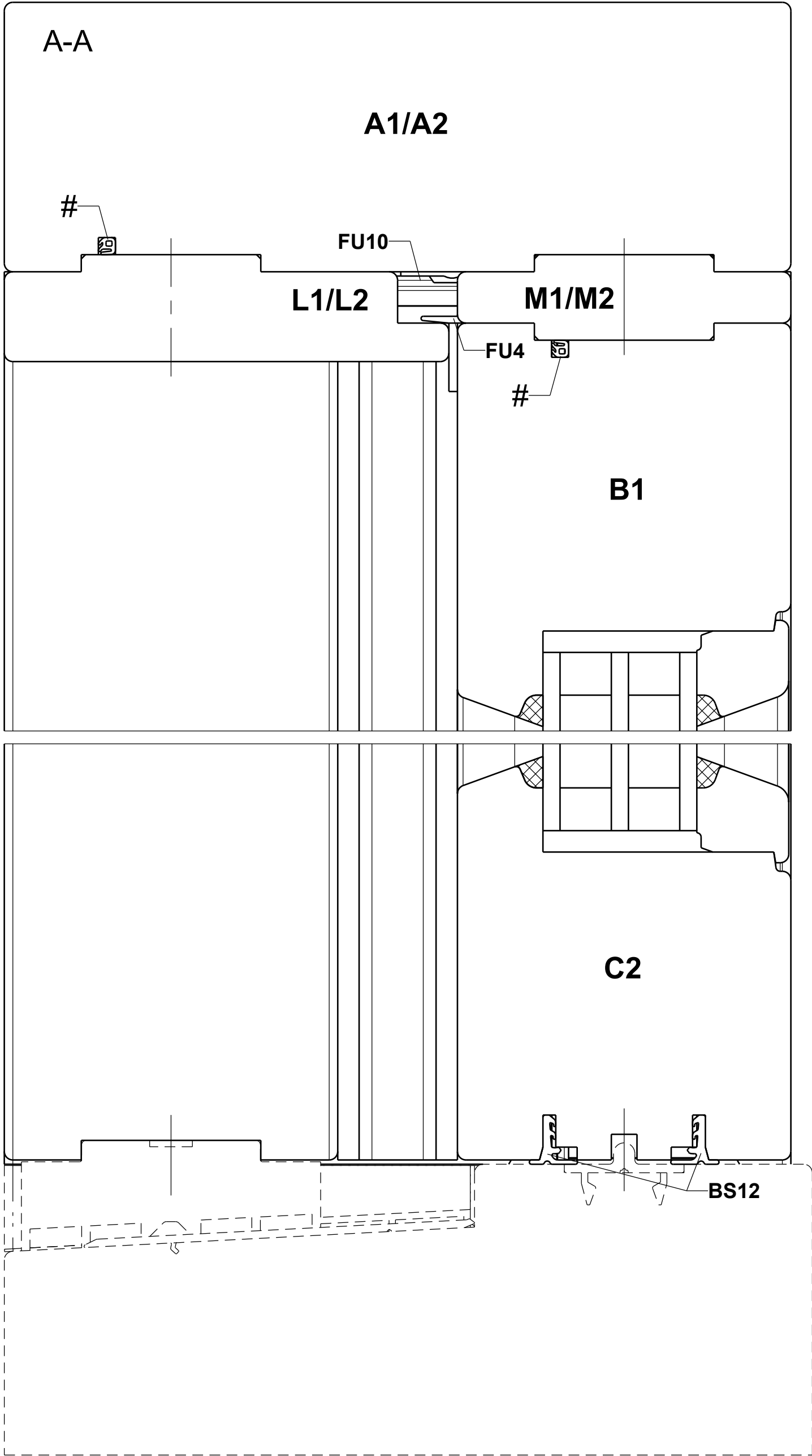
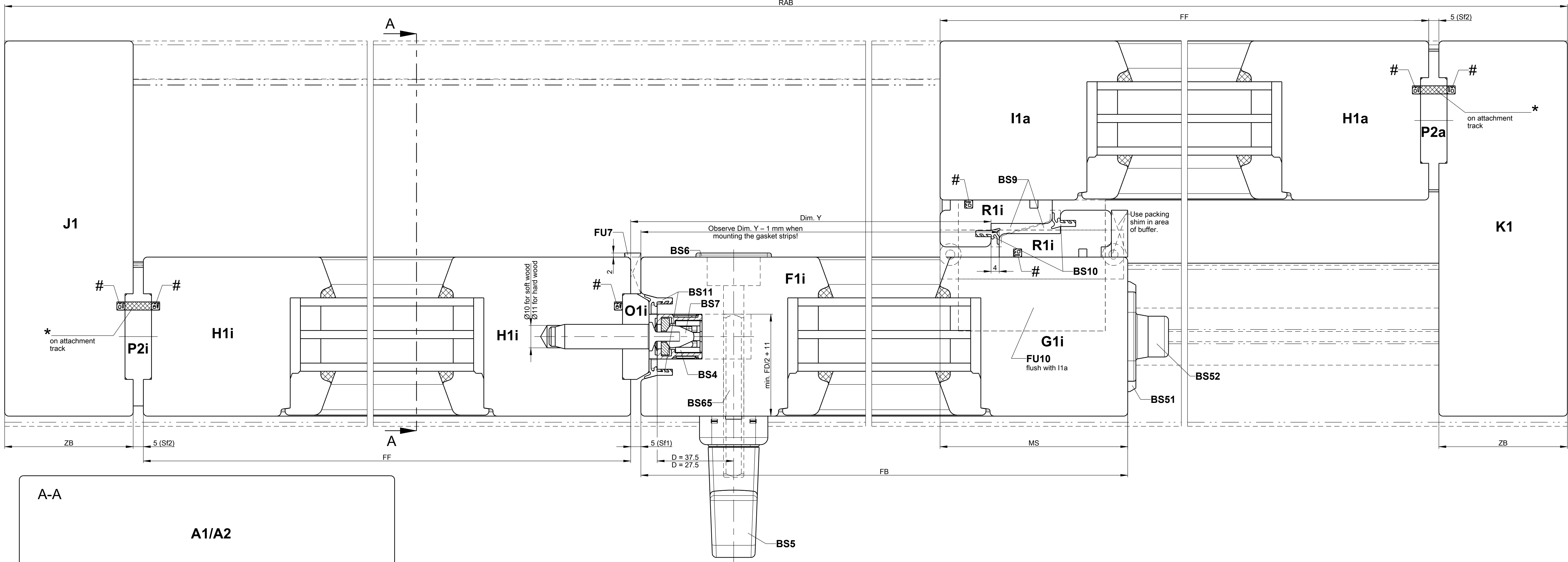
i	Inside	see calculation form
m	Centered	
a	Outside	
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FB	Door leaf thickness	
FF	Sash width	
RAB	Total frame width	
Sf2	Shadow gap 2	
D	Backset	
MS	Meeting stile	

★ seal

Item BS66 or alternative gasket

Depicted: FD 78, FA 28, ZB 63

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



i	Inside	see calculation form
m	Centered	
a	Outside	
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FB	Sash width	
FF	Fixed-glazed sash width	
RAB	Total frame width	
Sf2	Shadow gap 2	
D	Backset	
MS	Meeting stile	

Vertical section see pattern A (Sheet 5)

★ seal

Item BS66 or alternative gasket

Depicted: FD 78, FA 28, ZB 63

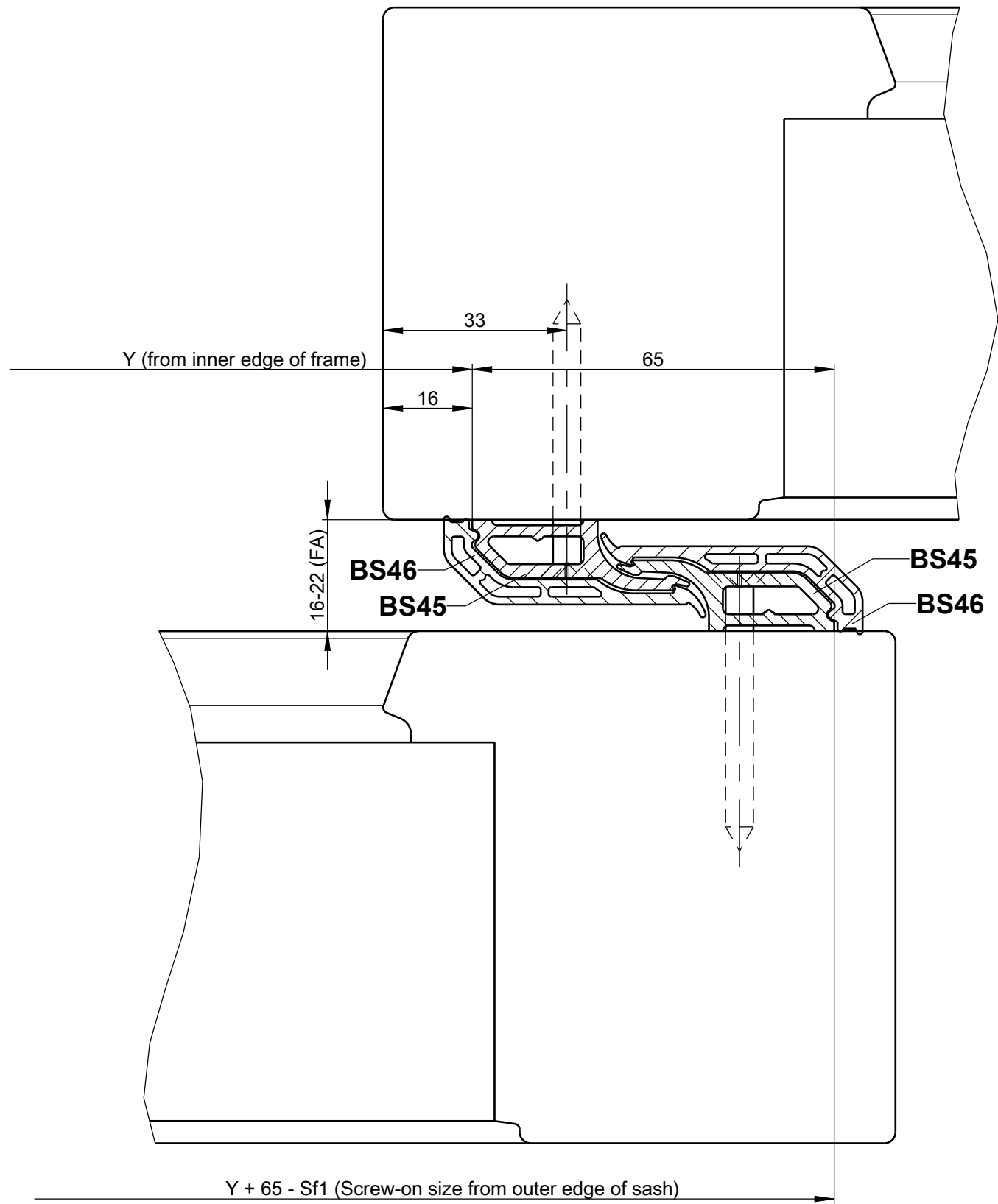
Pattern G3



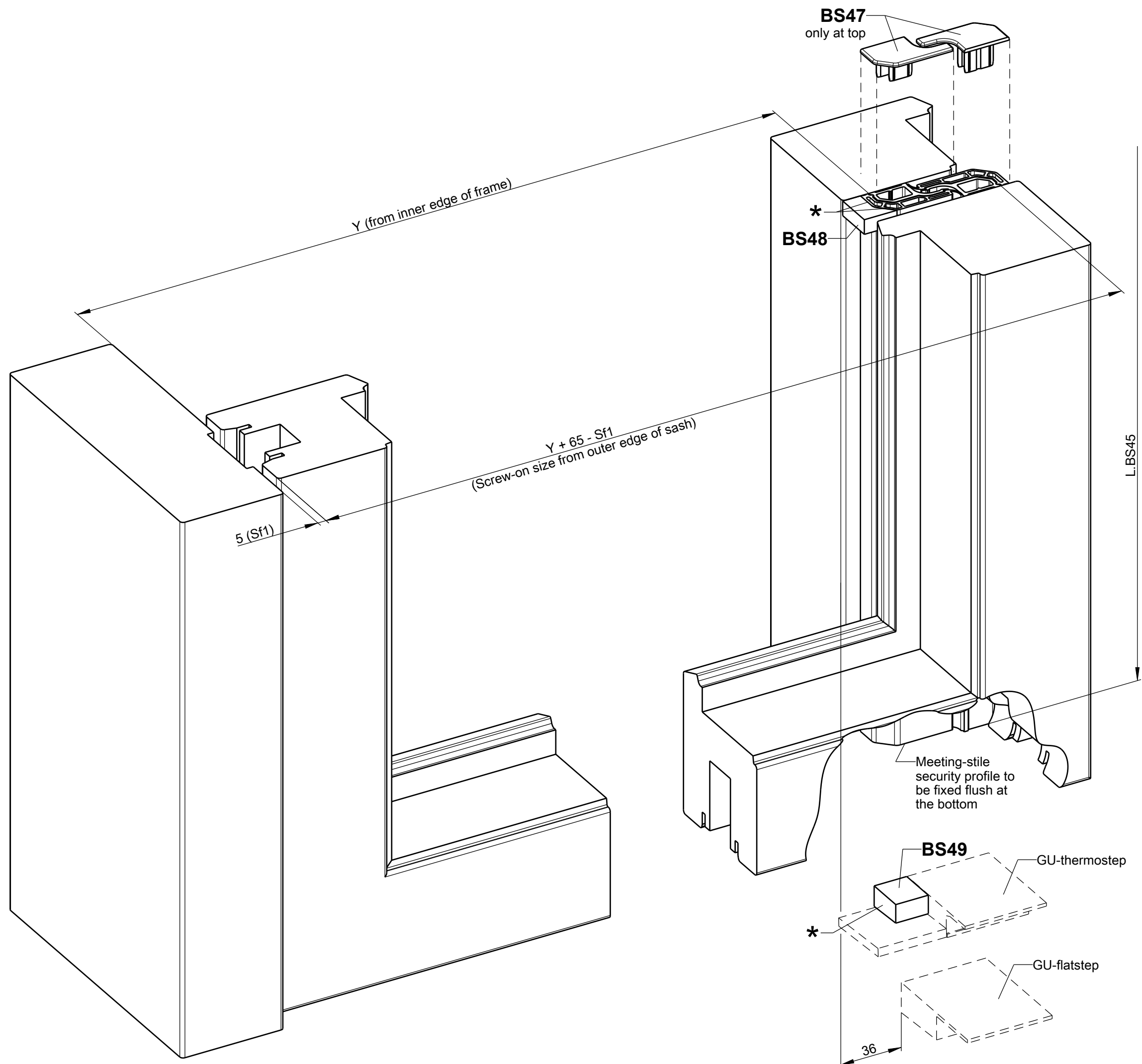
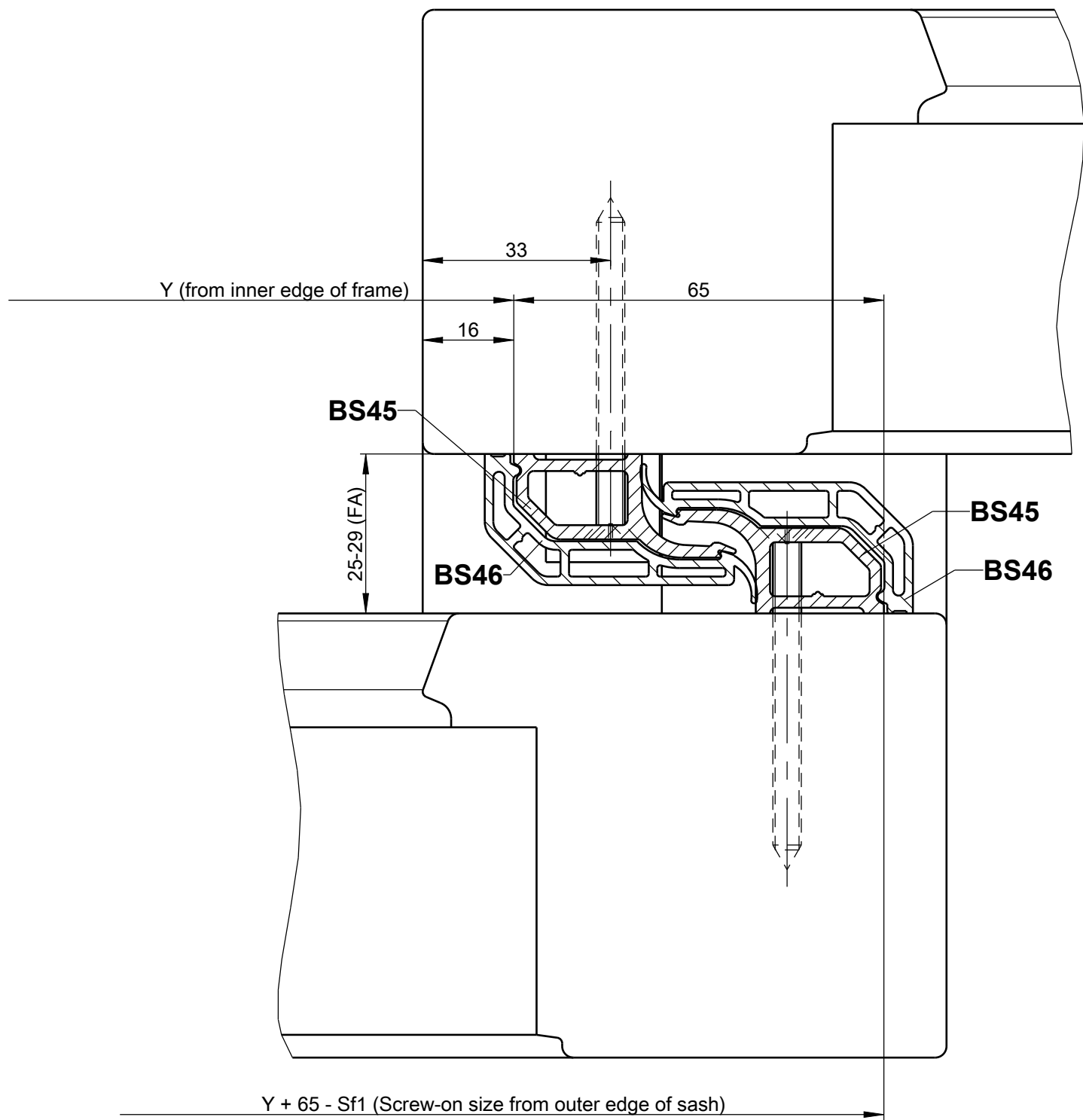
Description:
Lift&Slide elements, timber neutral
GU-934 / GU-937, P 1786 / P 1850
FD 68-110, FA 16-29, ZB 56-68

GU	Date	Change No.	Sig	Ver.	Replacement for	Revision	Iteration	Level	Scale	Drawing No.	Size	Sheet
	14.02.2020	G34699	Mj	De	-	1	82	Released	1:1	0-48511-FJ-EN	A1	13/19

FA 16-22



FA 25-29



Spax or similar	Screws required for items	Qty
5 x 50	BS46	5 per metre
FD	Door leaf thickness	
FA	Sash distance	
ZB	Frame profile width	
FH	Sash height	
Sf1	Shadow gap 1	
L.BS45	Length of meeting-stile security profile	

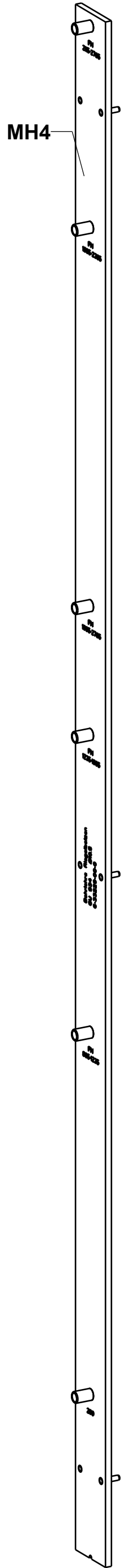
★ seal

Meeting stile security profile

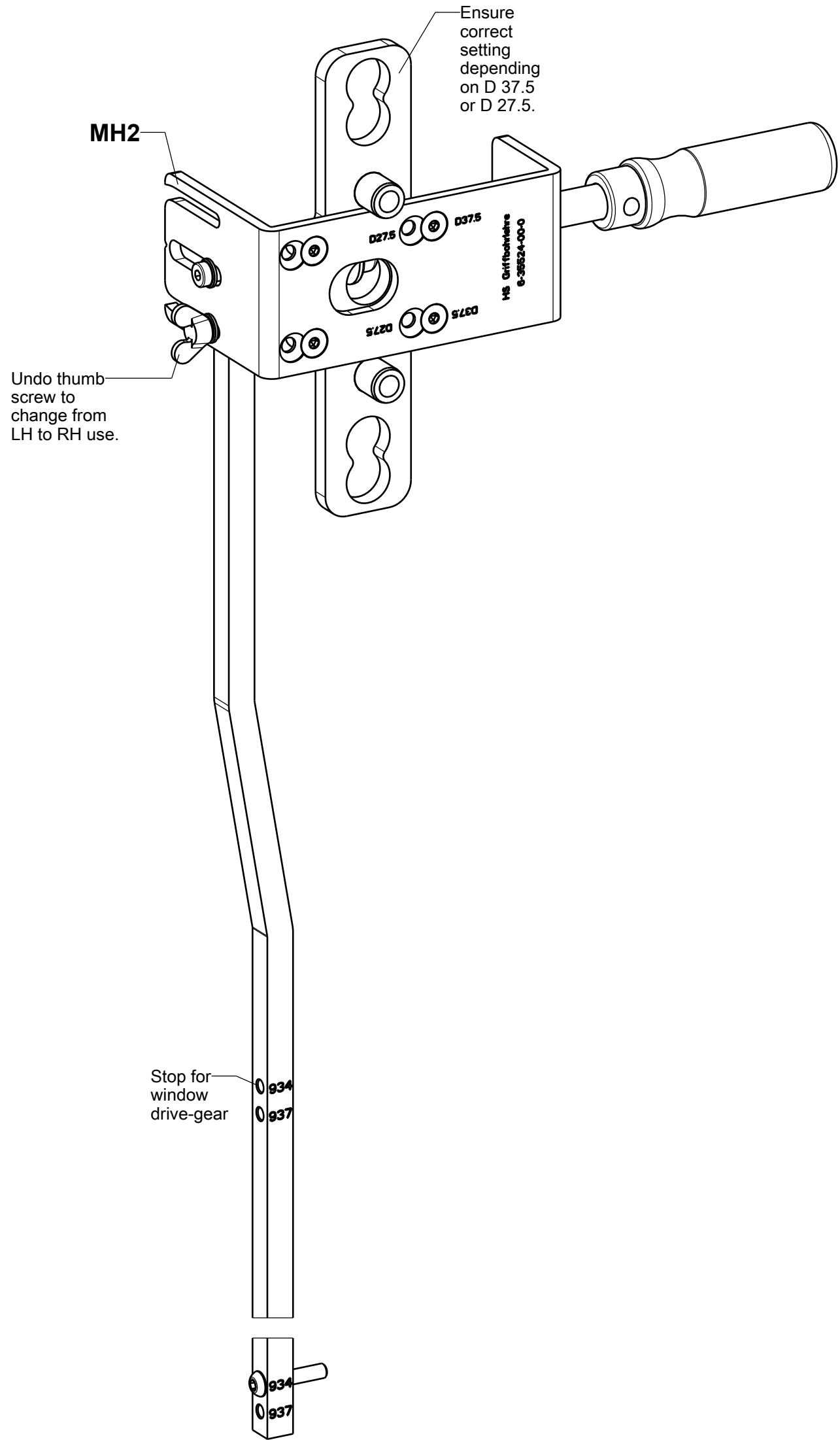
Description:
Lift&Slide elements, timber neutral
GU-934 / GU-937, P 1786 / P 1850
FD 68-110, FA 16-29, ZB 56-68

Date	Change No.	Sig	Ver.	Replacement for	Revision	Iteration	Level	Scale	Drawing No.	Size	Sheet
14.02.2020	G34699	Mj	De	-	1	82	Released	%	0-48511-FJ-EN	A1	17/19

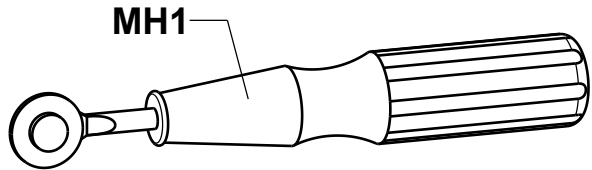
Drilling jig for frame cam



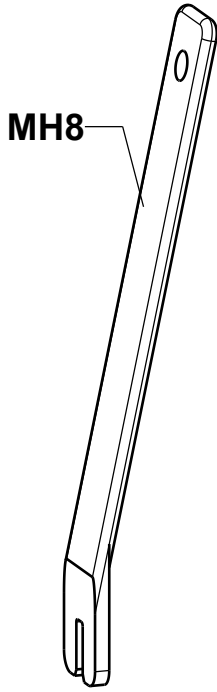
Drilling jig for turn handle



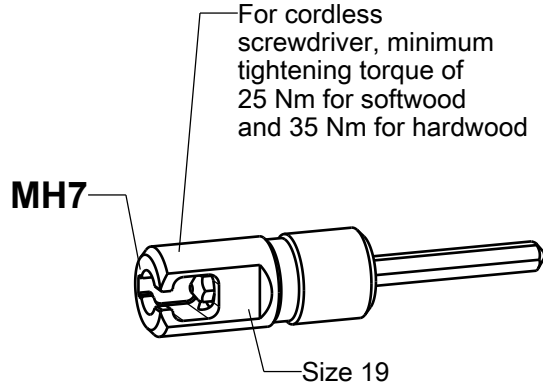
Gasket roller tool



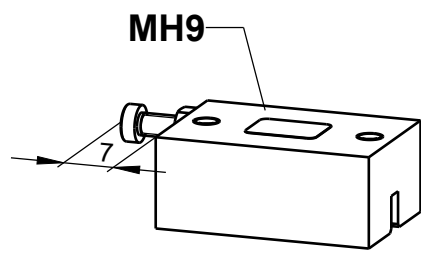
Wrench for frame cam



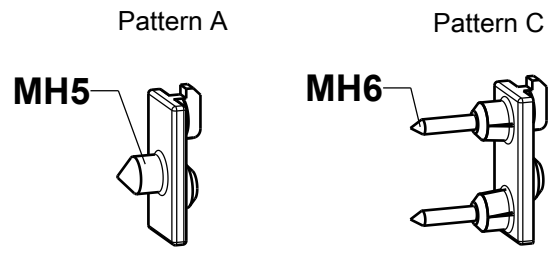
Bit for fame cam



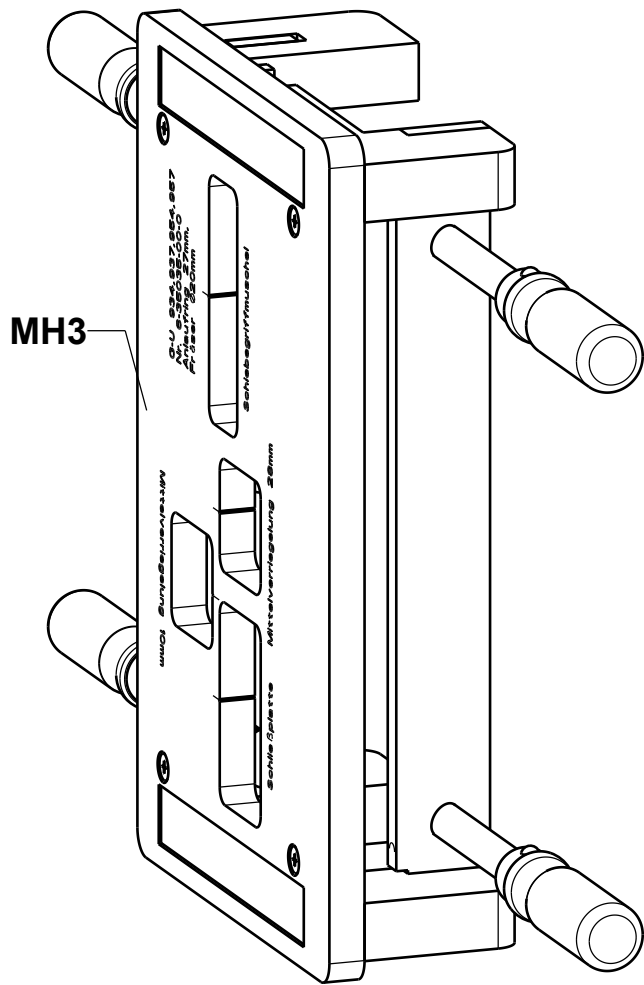
Drilling jig for bottom keeper



Centre punch

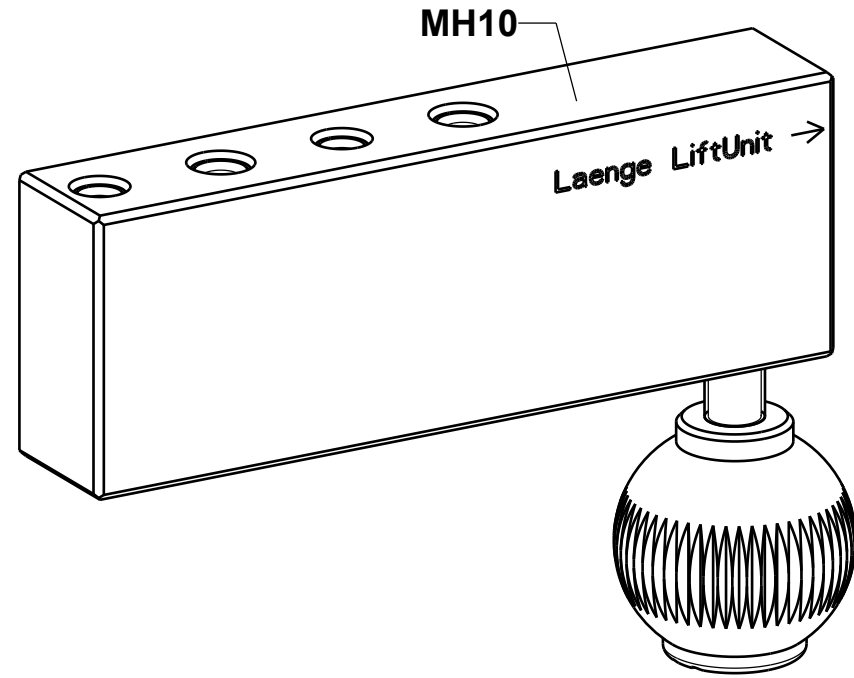


Drilling jig for flush pull/centre-closer

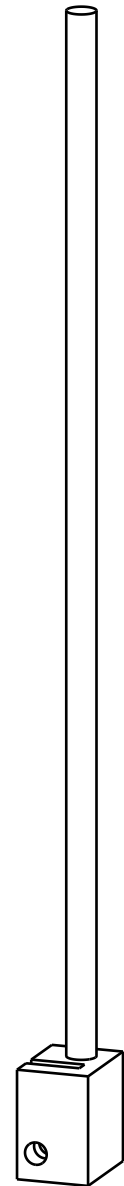


For use see 0-45384-FJ

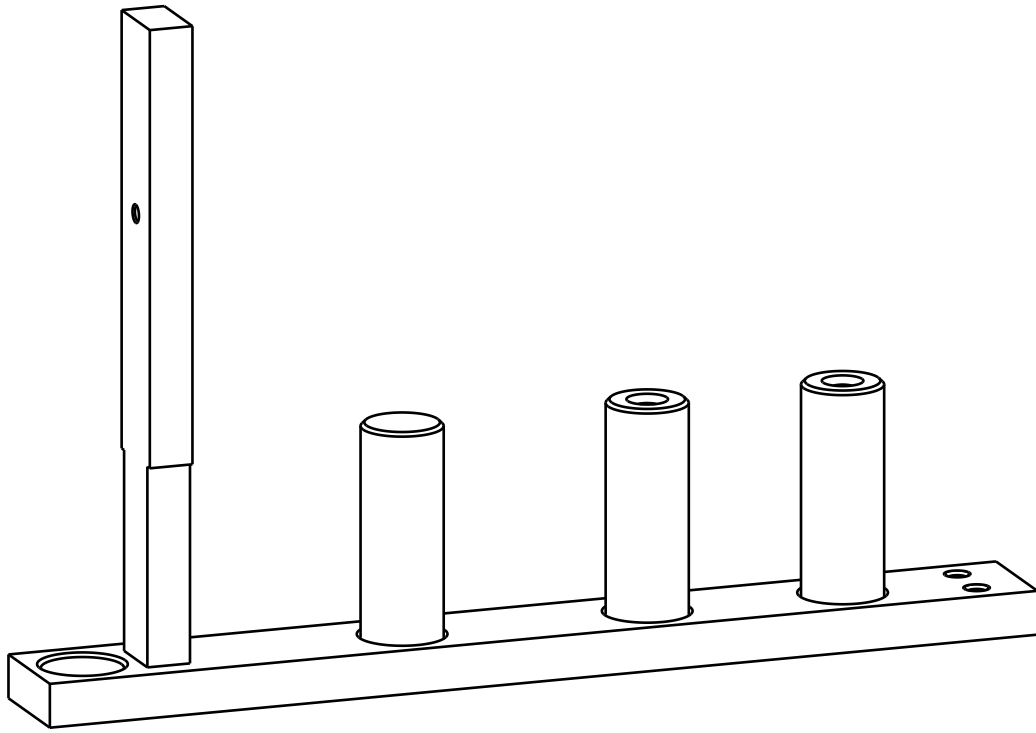
Drilling jig for HS LiftUnit



Drilling jig for L&S handle damper
6-37928-01



Drilling jig for bogies

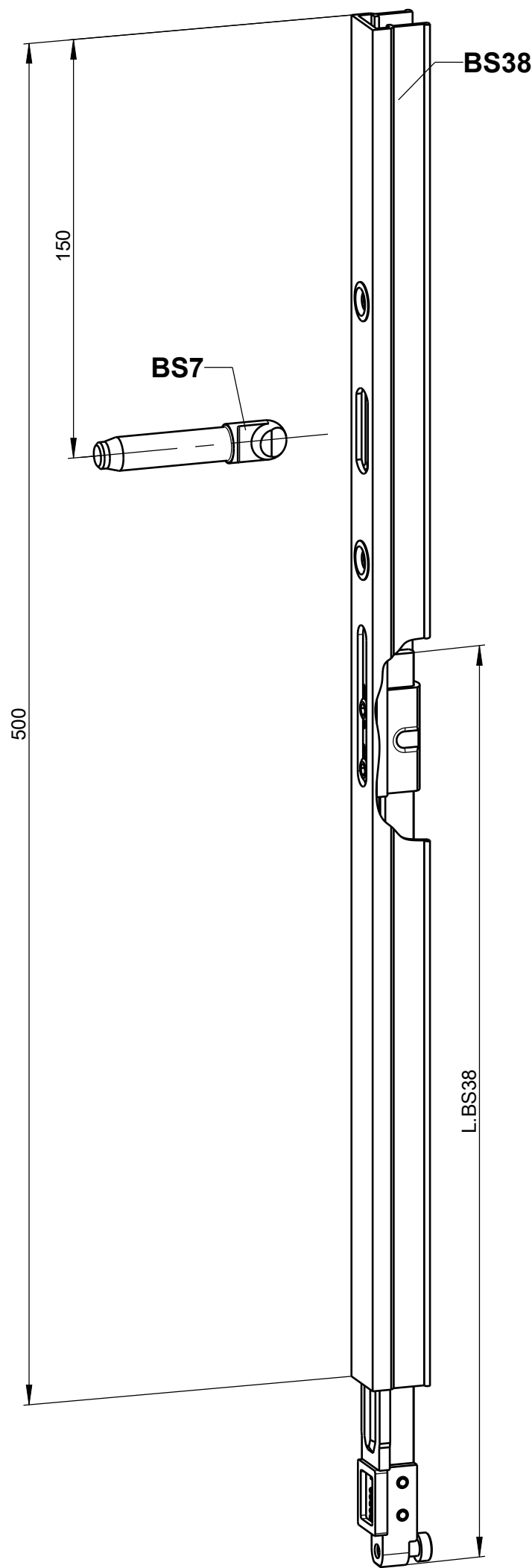


GU-934	6-39690-01
GU-934 Tandem bogie	K-19878-01
GU-937	6-39690-02
GU-937 Tandem bogie	K-19878-02

FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
D	Backset

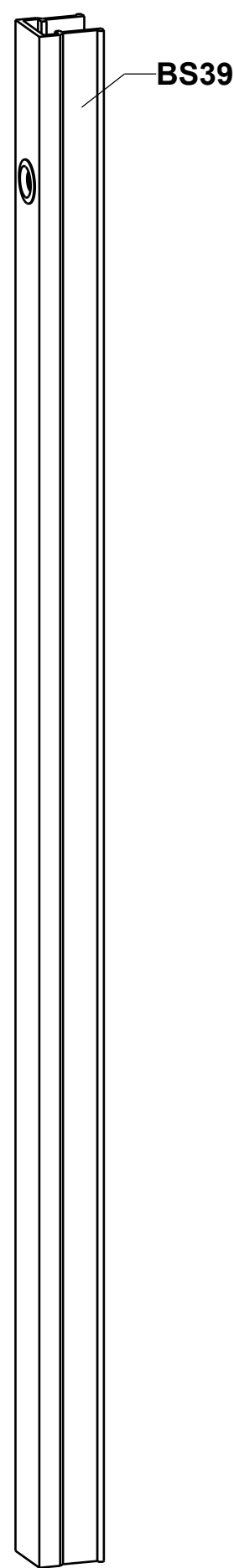
Installation aids

Gear extension



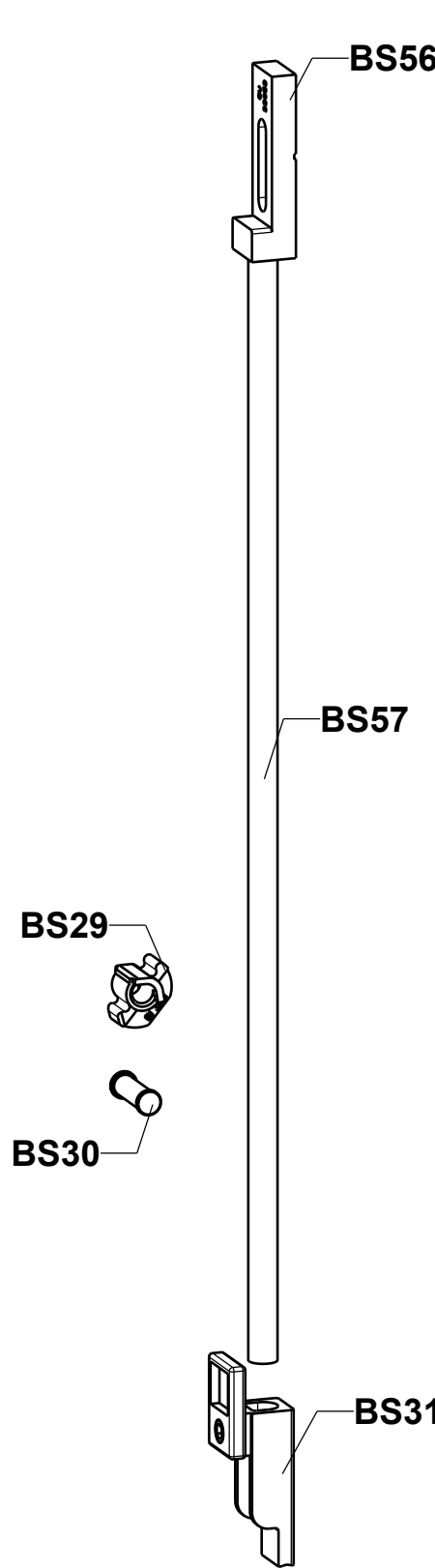
Installation see 0-46033-F0

Cover rail extension
with FH > 2740 mm



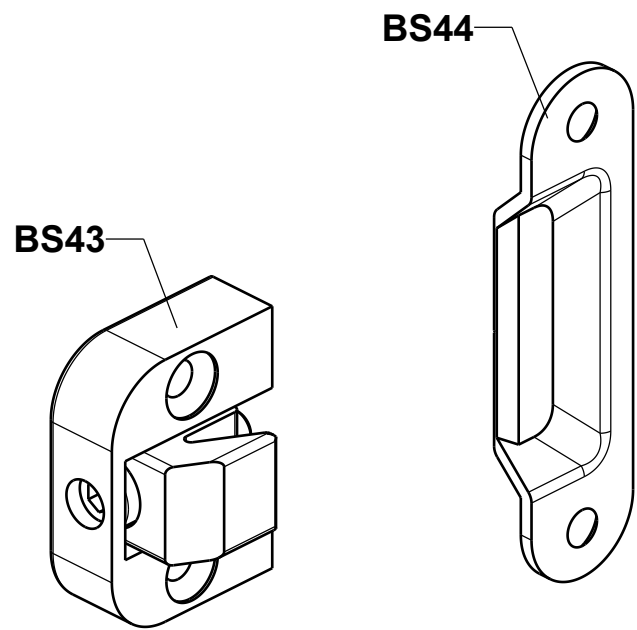
Installation see 0-46033-F0

Lowering safeguard
with FG < 80 kg



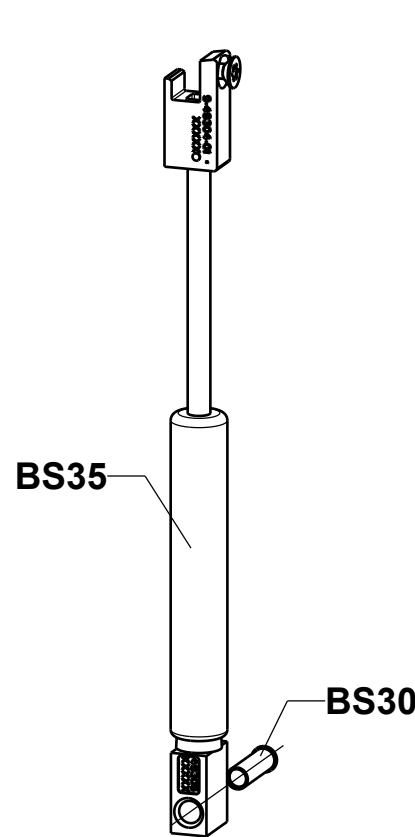
Installation see 0-44281-FJ

Centre-lock



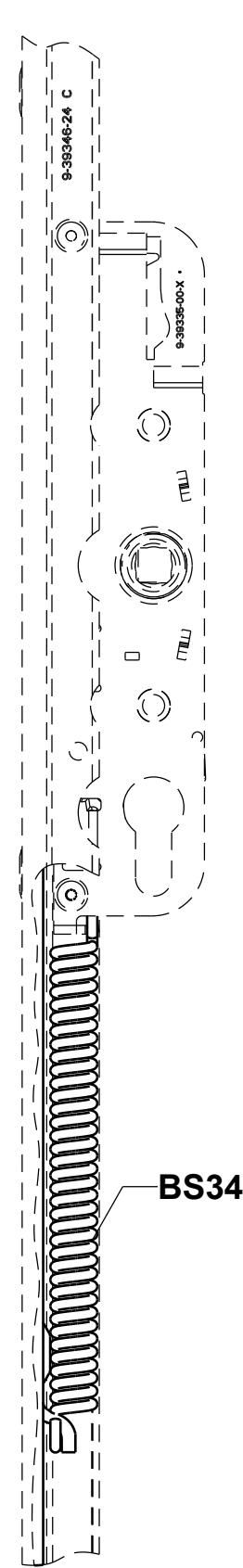
Installation see 0-45384-FJ

L&S handle damper
with FG > 100 kg

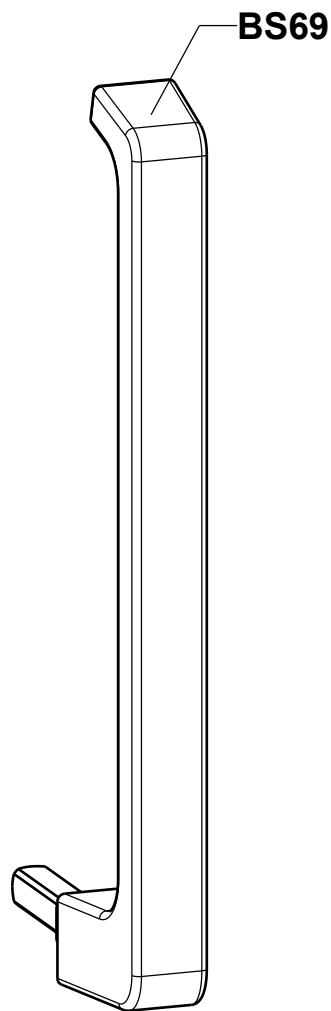


Installation see 0-46862-FJ

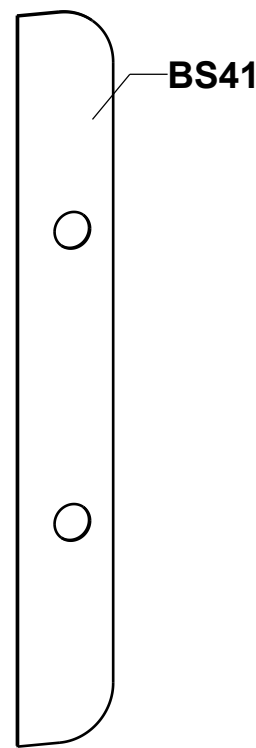
Tension spring for facilitated handle operation
with FG > 200 kg



Service handle for manual locking

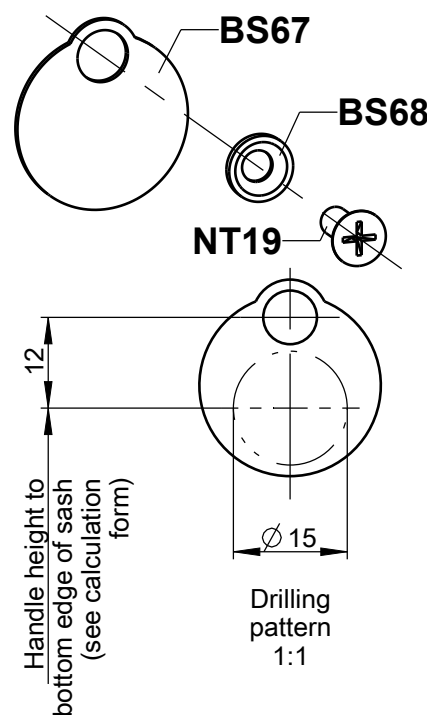


Anti-drill plate (RC 1/RC 2)

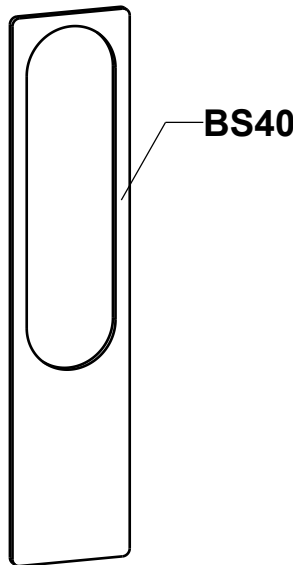


Installation see 0-44187-FJ

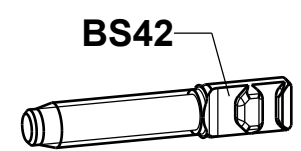
Cover for service handle



Gasket plate for turn handle

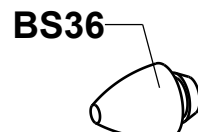


Night ventilation frame cam



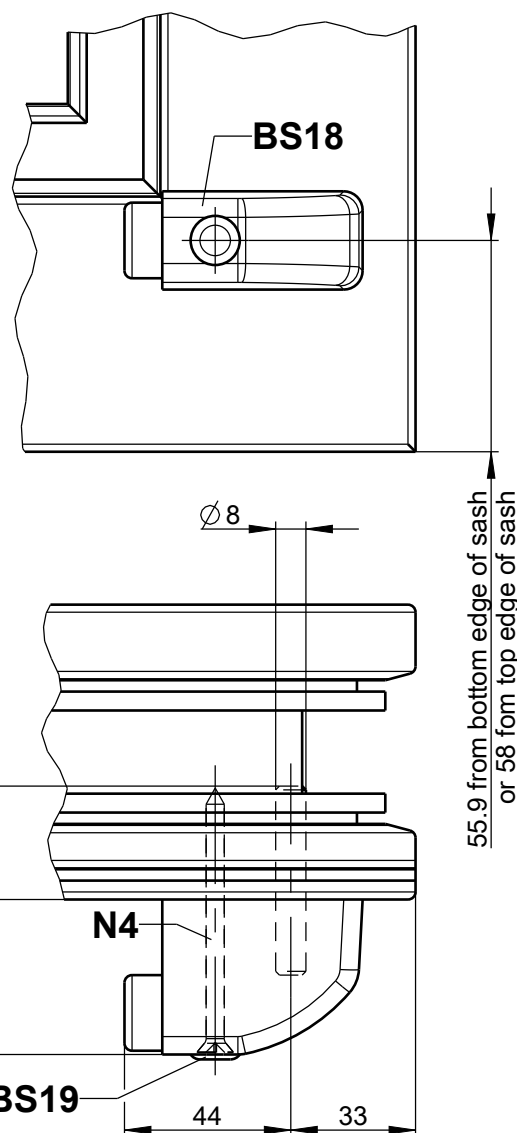
alternatively possible for item BS7

Rubber buffer S

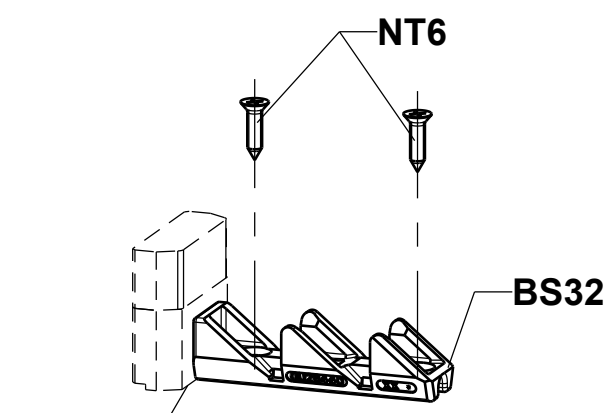


Buffer 90

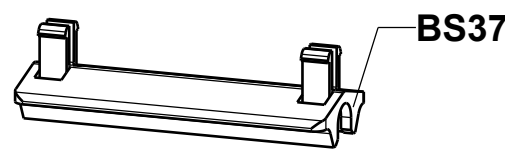
2 pieces required with handle on both sides.



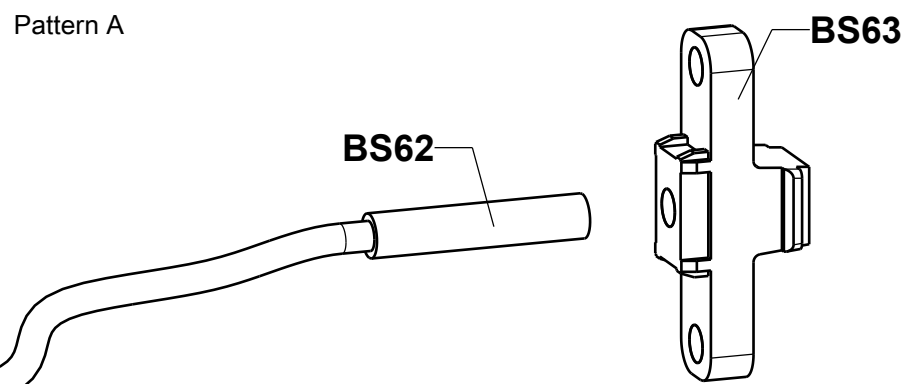
Bottom keeper



Bogie support

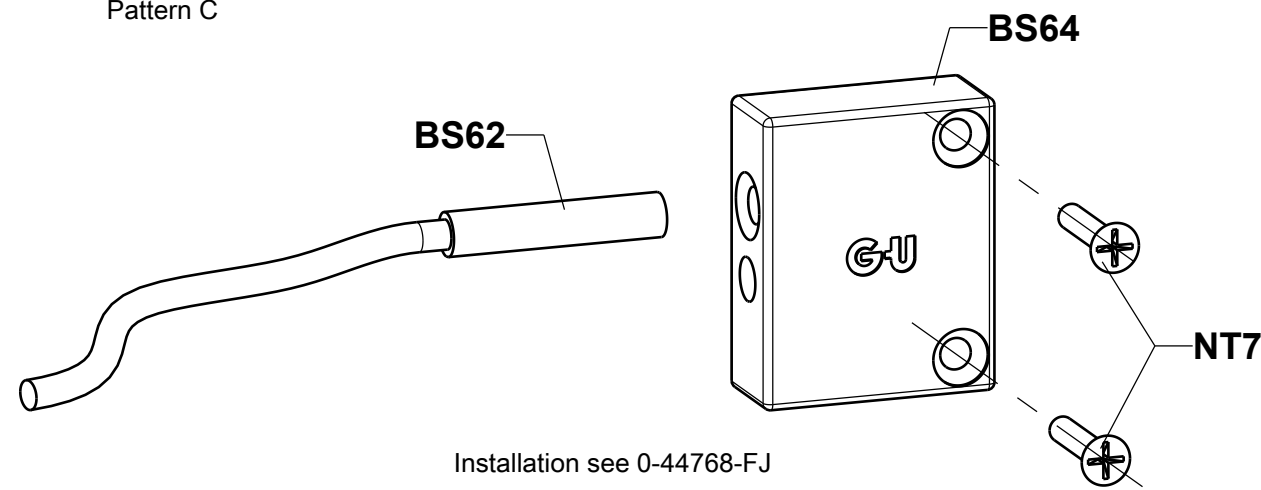


Locking monitoring set



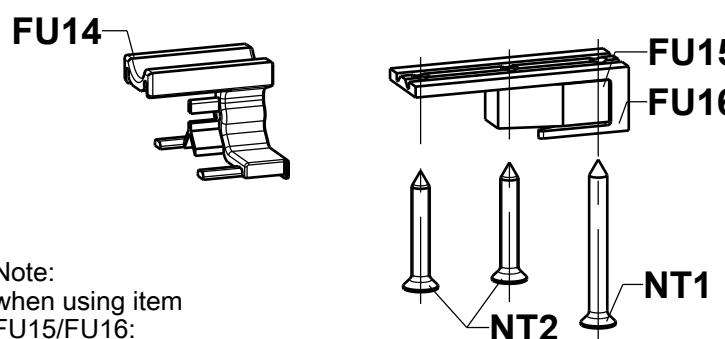
Installation see 0-44449-FJ

Pattern C



Installation see 0-44768-FJ

Accessories for concealed guide P 1850, GU-934 LS5

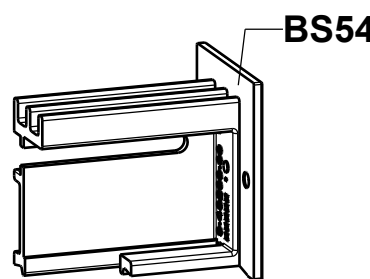


Note:
when using item
FU15/FU16:

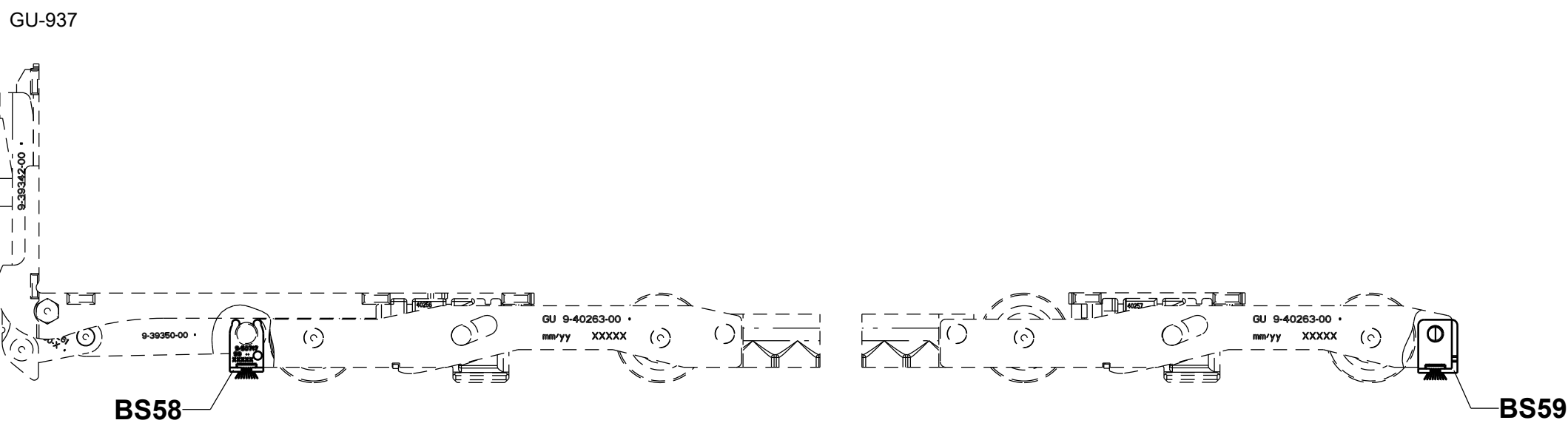
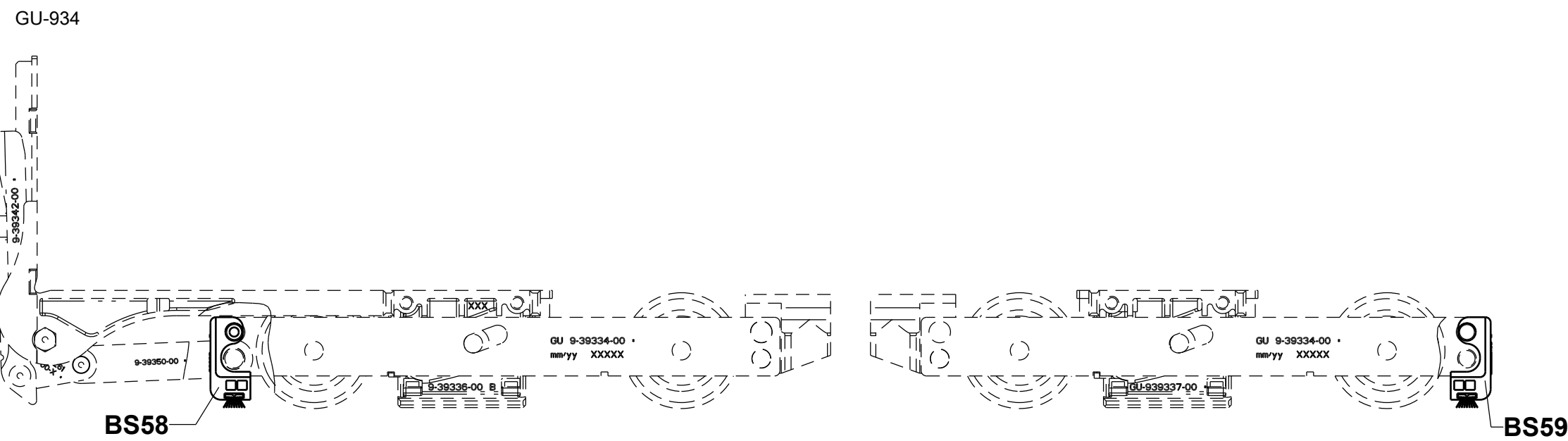
- up to FG
150 kg
standard bogie

- from FG 151 kg to
300 kg standard bogie
and tandem bogie, front

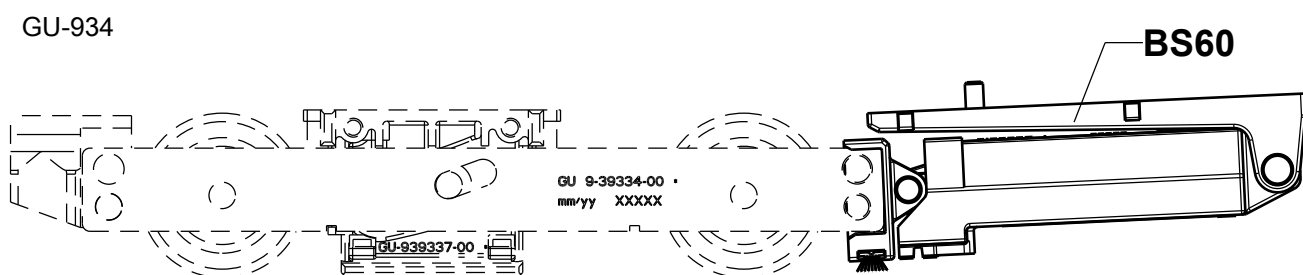
- from FG 301 kg to
400 kg standard bogie
and 2x tandem bogie



HS CleanUnit

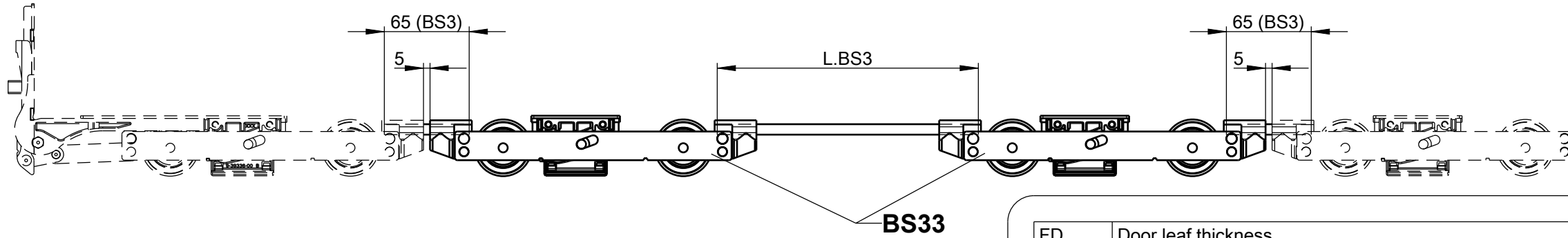


HS LiftUnit



Tandem bogie

GU-937 with FG 200 kg-400 kg
GU-934 with FG 350 kg-400 kg



FD	Door leaf thickness
FA	Sash distance
ZB	Frame profile width
FH	Sash height
FG	Sash weight
L.BS38	Length of Lift&Slide gear extension
ISK	Hexagon socket

Accessories

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