GU
GRETSCH-UNITAS

Item	Description				Article no.	Qty. per scheme A	C	D	G	K
1	Runner	front		lh	6-32247	1	2	1		2
				rh						
2		rear		lh	6-29555	1	2	1		2
				rh						
3	Control part				6-33328	1	2	1		2
4	Fixing pin	only with scheme D			9-39897	--	--	1	--	--
5	Stay arm	front	GR 9	lh	6-32204-09	1	--	1		2
				rh						
			GR 13	lh	6-32204-13					
				rh						
5A	Stay arm scheme C active sash	front	GR 9	lh	6-34983-09	--	1	--		--
				rh						
			GR 13	lh	6-34983-13					
				rh						
5B	Stay arm scheme C passive sash	front	GR 9	lh	6-32535-09	--	1	--		--
				rh						
			GR 13	lh	6-32535-13					
				rh						
6	Stay arm	rear	GR 9	lh	6-32537-09	1	2	1		2
				rh						
			GR 13	lh	6-32537-13					
				rh						
7	Cover				9-35573	2	4	2		4
8	Stay arm glider				6-22755	2	4	2		4
9	Corner transmission front				6-32539	1	--	1		2
9A	Front corner transmission scheme C. active sash				6-34992	--	1	--		--
9B	Front corner transmission scheme C. passive sash				6-32543	--	1	--		--
10	Corner transmission rear				6-32550	1	2	1		2
12	Geared handle DIRIGENT			lh or rh	6-24542	1	2	1		2
13	Threaded sleeve				9-30705	2	4	2		4
14	Countersunk screw M5x20 DIN 965				9-13133-20	2	4	2		4
15	Coupling piece	GR 9	Overlap thickness 14-20		9-30111	1	2	1		2
		GR 13	Overlap thickness 15-21.5		9-31015					
		GR 13	Overlap thickness 21.5-28	optional	9-40291					
16	Dome headed screw M5x6 DIN 7985				9-13290-06	2	4	2		4
17	Plug			lh	9-38521	1	2	1		2
				rh						
18	Spring-loaded buffer				6-29564	1	2	1		2
19	Support				6-38522	1	2	1		2

20 Centre piece. vertical	SRH	Length	TZ	Handle height					
	820-995	465	-	440	6-32304-01	2	3	2	4
	996-1120	590	1	440	6-32304-02				
	1121-1370	840	1	500	6-32304-03				
	1371-1620	1090	1	600	6-32304-04				
	1621-1870	1340	2	600	6-32304-05				
	1871-2120	1590	2	980	6-32304-06				
	2121-2370	1840	2	980	6-32304-07				
	1621-1870	1340	2	980	6-32304-55				

21 Centre piece. horizontal	SRW	Length	TZ						
	720-890	730	0		6-32307-02	2	4	2	4
	891-1100	480	1		6-32307-01				
	1101-1350	730	1		6-32307-02				
	1351-1600	980	2		6-32307-03				
	1601-1850	1230	2		6-32307-04				

25 Rod Ø10	SRW	Length							
	720-1100	800			9-23055-08	1	2	1	2
	1101-1350	1050			9-23055-10				
	1351-1600	1300			9-23055-13				
	1601-1850	1550			9-23055-15				

27 Cover rail P 1602. bottom	SRW	Length							
	720-1100	1035			9-38801-10	1	2	1	2
	1101-1350	1285			9-38801-13				
	1351-1600	1535			9-38801-15				
	1601-1850	1785			9-38801-18				

65 Rebate shoot bolt ZK	SRH	Length	ML	Handle height					
	1371-1620	1090	1	495	6-33018-04	--	1	--	--
	1621-1870	1340	1	703	6-33018-55				

66 Rebate shoot bolt ZH	SRH	Length	ML	Handle height					
	1371-1620	1090	1	495	6-33017-04	--	1	--	--
	1621-1870	1340	1	703	6-33017-55				

Item	Description				Article no.	Qty. per scheme A	C	D	G	K
26	Guide	from SRW 1601			6-29750	1	2	1		2
28	Running rail P 1213	Application range see sheet 7			9-30162-99	1				
29	Gliding rail P 1225				9-30140-99	1				
30	Cover rail P 1226	Same lengths as item 29			9-30141	1				
31	Plug f. gliding rail				9-30142	2				
32	Locking plate. zinc	See table of locking and positioning plates								
34	Positioning plate									
52	Wrong operation safety device				K-17060-00-9	1	2	1		2
53	Locking plate SE. steel	See table of locking and positioning plates								
54	Locking plate SE. steel									
57	Rebate clearance restrictor									
58	Sash centering device				9-43223	1	2	1		2
69	Rebate lever ZK				6-25020	--	1	--		--
69A	Spax countersunk screw 4x70				9-13246-70	--	2	--		--
77	Locking plate scheme C	See table of locking and positioning plates								
77A	Countersunk screw M4x10									
78	Mushroom pin locking plate scheme C									
79	Locking plate scheme C (zinc). short									
80	Locking plate SE scheme C (steel). short									
81	Locking plate SE scheme C (steel). short									

Optional parts:

Item	Description		Article no.	Qty. per scheme A	C	D	G	K
35	Geared handle DIRIGENT. lockable	lh or rh	6-26058	1	2	1		2
36	Lever handle DIRIGENT. both sides height of outside handle 15 mm. with cylinder bore		6-25164	1	2	1		2
37	Lever handle DIRIGENT. both sides height of outside handle 30 mm. with cylinder bore		6-24624	1	2	1		2
38	Lever handle DIRIGENT. inside with cylinder bore	with positioning plugs	6-24622	1	2	1		2
		without positioning plugs	6-24623					
39	Cover rosette outside		9-30489	1	2	1		2
40	Countersunk screw M6		9-13274	2	4	2		4

ST	up to 60	61-65	66-70	71-75	76-80	81-85	86-90
M6x	65	70	75	80	85	90	95

41	Lockable gear backset 40 (same lengths as item 20) (with the use of a lockable gear, only one centre piece item 20 is required; minimum SRH = 850)		6-32335-99	1	1	1	2
	Lockable gear backset 30 as an alternative		6-32343-99				

41A		SRH					
	Lockable gear backset 30	1371-1620	6-33574-04	--	1	--	--
		1621-1870	6-33574-55				
	Lockable gear backset 40	1371-1620	6-33575-04				
		1621-1870	6-33575-55				
	Lockable gear backset 50	1371-1620	6-33576-04				
		1621-1870	6-33576-55				

44	Buffer P 1225		6-30388	1	2	1	2
45	Gear extension	L= 250mm	6-24737	2	4	2	4
		L= 500mm (1 locking pin)	6-32993		3		

45A	Rebate shoot bolt extension	SRH	Length					
		1871-2370	500	6-25059	--	1	--	--
68	Protective cap for rebate lever			9-34300	--	1	--	--

Table of locking and positioning plates

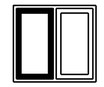
	Description	Rebating	Article no.	SRW	SRH	Basic security Qty. per scheme A	D	G	K	Enhanced basic security Qty. per scheme A	D	G	K	WK 2 A	D	G	K
32	Locking plate. zinc	Euro rebate 18x8	9-42301-18	720-890	820-995	3		6		1		2		1			2
					996-1620	5		10		3		6		for anti-lift security device on rear corner transmission			
					1621-2370	7		14		5		10					
		Euro rebate 20x8	9-42301-20	891-1350	820-995	5		10		3		6					
					996-1620	7		14		5		10					
					1621-2370	9		18		7		14					
		Euro rebate 24x8	9-42654-00	1351-2100	820-995	7		14		5		10					
					996-1620	9		18		7		14					
					1621-2370	11		22		9		18					
		Euro groove 7/8x4	9-42620-00														
53	Locking plate SE. steel	Euro rebate 18x8	6-32207-18			2		4		4		8		--		--	
		Euro rebate 20x8	6-32207-20														
		Euro rebate 24x8	6-32584-00														
		Euro groove 7/8x4	6-32471-00														
54	Locking plate SE. steel	Euro rebate 18x8	6-33082	720-890	820-995	--		--		--		--		4			8
					996-1620									6			12
					1621-2370									8			16
		Euro rebate 20x8	6-33585	891-1350	820-995									6			12
					996-1620									8			16
					1621-2370									10			20
		Euro rebate 24x8	6-32584	1351-2100	820-995									8			16
					996-1620									10			20
					1621-2370									12			24
		Euro groove 7/8x4	6-33082-07														
34	Positioning plate	Euro rebate 18x8	9-43636-18	--		3		6		3		6		3			6
		Euro rebate 20x8	9-43636-20														
		Euro rebate 24x8	9-43636-24														
		Euro groove 7/8x4	9-30430-00														
57	Rebate clearance restrictor		9-43219			2 optional		4		4 optional		8		4 standard			8
77	Locking plate scheme C		9-31960	--													
77A	Countersunk screw M4x10		9-13281-10	--													
78	Mushroom pin locking plate scheme C		9-39189	--													
79	Locking plate scheme C (zinc). short	Euro rebate 18x8	9-46000-01	--													
		Euro rebate 20x8	9-46000-02														
		Euro rebate 24x8	9-46000-03														
		Euro groove 7/8x4	9-46000-04														
80	Locking plate SE scheme C (steel). short	Euro rebate 18x8	9-46000-05	--													
		Euro rebate 20x8	9-46000-06														
		Euro rebate 24x8	9-46000-07														
		Euro groove 7/8x4	9-46000-08														
81	Locking plate SE scheme C (steel). short	Euro rebate 18x8	9-46000-09	--													
		Euro rebate 20x8	6-35349-00														
		Euro rebate 24x8	9-46000-07														
		Euro groove 7/8x4	9-46000-10														

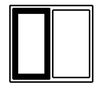
	SRH	C without false mullion (Qty. per scheme) Basic security	Enhanced basic security	WK2	C with false mullion (Qty. per scheme) Basic security	Enhanced basic security	WK2
32	1371-1620	6	4	2	10	5	2
	1621-1870	8	6	for anti-lift security device on rear corner transmission	13	8	for anti-lift security device on rear corner transmission
	1871-2370	10	8		16	11	
	1371-1620	10	8		14	9	
	1621-1870	12	10		17	12	
	1871-2370	14	12		20	15	
	1371-1620	14	12		18	13	
	1621-1870	16	14		21	16	
	1871-2370	18	16		24	19	
53	1371-1620	4	6	--	5	10	--
	1621-1870						
	1871-2370						
54	1371-1620	--	--	8	--	--	13
	1621-1870			10			16
	1871-2370			12			19
	1371-1620			12			17
	1621-1870			14			20
	1871-2370			16			23
	1371-1620			16			21
	1621-1870			18			24
	1871-2370			20			27
34	1371-1620	6					
	1621-1870						
	1871-2370						
57		--					
77	1371-1620	2	1	--	--	--	--
	1621-1870	3	2				
	1871-2370	4	3				
77A	1371-1620	2		--	--	--	--
	1621-1870	3					
	1871-2370	4					
78	1371-1620			3	--	--	--
	1621-1870	1	2	4			
	1871-2370			5			
79		2	--	--	(2 if Dim Z < 33)	--	--
80		--	2	--	--	(2 if Dim Z < 33)	--
81		--	--	2	--	--	(2 if Dim Z < 50)
							(2 if Dim Z < 33)
							(2 if Dim Z < 50)

Sash arrangement schemes:

Overview of fitting components — on sheet 2

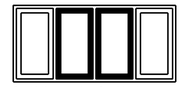
Scheme A
Sheet 2: Overview of fitting components
Sheet 3: detailed sections


Sliding sash/side hung sashes with fixed mullion

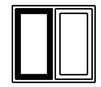

Sliding sash/fixed glazings

Scheme C
Sheet 4: Overview of fitting components
Sheet 5: detailed sections


2 sliding sash /fixed glazing without mullion or 2 sliding sash / fixed glazing with movable mullion

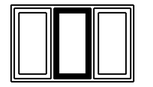

2 sliding sash/ 2 side hung sashes without mullion or 2 sliding sash/ 2 side hung sash with movable mullion

Scheme D
Sheet 6: detailed sections


Sliding sash/side hung sash with false mullion

Scheme G
For assembly of fittings see sheet 2

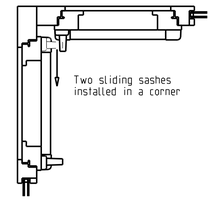

Sliding sash/ 2 fixed glazings


Sliding sash/ 2 side hung sash with fixed mullion

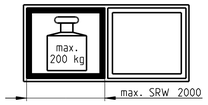
Scheme K
For assembly of fittings see sheet 2


2 sliding sashes/ fixed glazings

2 sliding sashes in a corner
See drawing 0-43982-B0

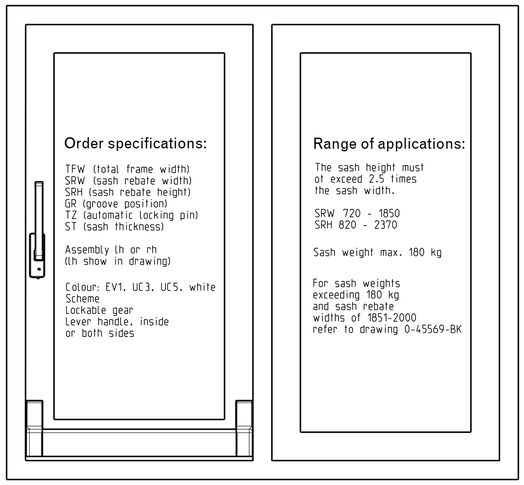


Tandem runners and intermediate stay arm
See drawing 0-45569-BK



for large and heavy sashes

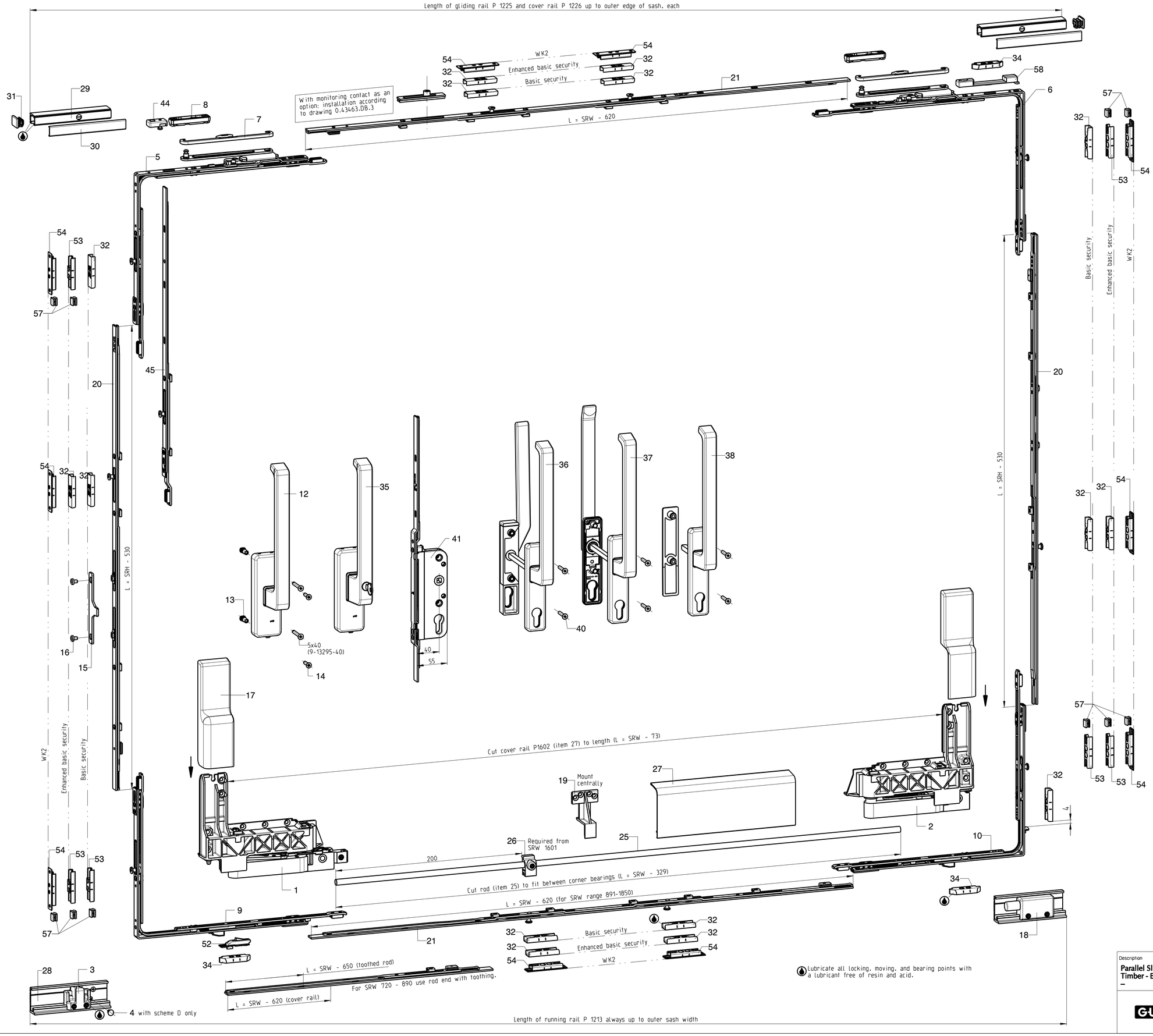
Drilling and milling jigs — on sheet 7



Description
Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
–

GU	Release No. --	Level	Released		Scale %	Modification 4	Size 1
	Mod. No. G26808	Ver.	--	--			
		Draft	02.02.09	Mo		Drawing No. 0-45253-BK-0-GB	Sheet 1/7
	Replacement for --						

GB



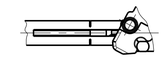
Monting instructions

Drilling and cutting according to specified dimensions, preferably by means of appropriate jigs. Peripheral rebate clearance 12 mm.

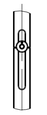
Mounting on sash

All fitting components are mounted in tilt position.

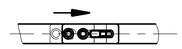
1. Mount corner transmissions (items 9.10) at bottom and stay arms (items 5, 6) at top and put in tilt position, each.



2. Cut to length vertical centre pieces (item 20), lockable gear (item 41, if used), and horizontal centre piece (item 21); engage them in corner transmissions and angle stay arms, each, and fasten with screws. (Correct mounting position predefined by arresting pin: centre of mushroom pin must be aligned with marking notches).
   Note: when cutting the horizontal centre pieces size 01, ensure that the long toothed section is flush with the gear end.



3. Slide connecting plates over centre pieces/gear until stop and fasten with screws.



4. Mount coupling (item 15).

5. Mount geared handle (item 12); ensure that carrier piece engages in the coupling.
   Alternative: mount handle item 35

6. Fasten front (item 1) and rear runner (item 2).

7. Fasten support (item 19) at centre of sash.

8. Cut connecting rod (item 25) and insert into rear runner. Tighten screws and insert rod into front runner. Put runners to closed position and firmly tighten screw on front runner. Tightening torque 10 - 12 Nm.

Mounting on frame

9. Insert locking plates and positioning plates using the appropriate jigs as shown in drawing.

10. Cut gliding rail P 1225 (item 29) and cover rail P 1226 (item 30) to length. Mount gliding rail, insert stay arm glider (item 8) and attach covers (item 31).

11. Cut running rail P 1213 (item 28) to length and mount.

12. Slide control part (item 3) onto running rail and tighten screws firmly using an Allen key size 4. Tightening torque 10 - 12 Nm. For elements without mullion (scheme D) use drilling jig 6-30447.

Installing the sliding sash

13. Put fittings in tilt position (lever handle in horizontal position).

14. Place sash on running rail in inclined position. Insert stay arm pin fully into glider (item 8) and tighten with Allen key size 4 (see sheet 3). Verify fastening is secure by pulling on stay arm vigorously.

Verifying the correct sash position

15. If sash is not parallel in horizontal direction:
    Loosen clamping screws for connecting rod on front runner, align sash in parallel, retighten screws firmly.

16. Sash is not parallel in vertical direction:
    Pull out catches for height adjustment on front and rear runner. Align the sash vertically using a 4mm Allen key. Push catches back in again.

17. If sash does not run centrally into frame:
    Loosen clamping screws on control part to adjust it as required, retighten screws firmly.

18. Mount sash centering device (item 58) centrally. Align by sliding, if necessary.

19. Mount spring-loaded buffer (item 18) onto running rail according to the opening width desired, then tighten with 4mm Allen key.

20. Clip cover rail P 1226 (item 30) onto gliding rail P 1225 (item 29).

21. Cut cover rail P 1602 (item 27) and clip it between runners.

22. Insert covers (item 17) from above until they snap in.

23. Running rail P 1213 (item 28) must be supported over its total length and fixed to the frame with screws.

The fastening screws specified are only a recommendation based on our experience.

The responsibility for the appropriate fastening of fitting components rests with the window/ window door fabricator.

Fitting components illustrated in ex factory state.

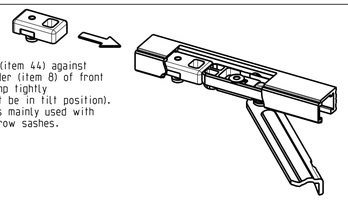
Overview of fitting components

Description
Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
–

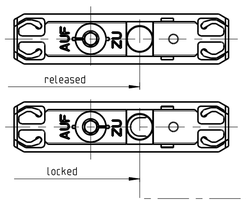
Release No. --	Level	Released		Scale %	Modification 4	Size 1
Mod. No. G26808	Ver.	--	--		Drawing No. 0-45253-BK-0-GB	Sheet 2/7
Replacement for --	Draft	02.02.09	Mo			

GU
GRETSCH-UNITAS

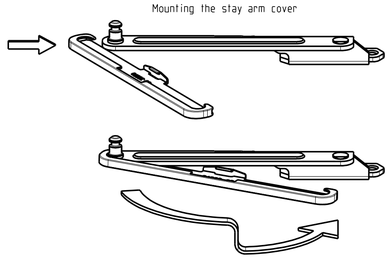
Slide buffer (item 44) against stay arm glider (item 8) of front stay and clamp tightly (fittings must be in tilt position). The buffer is mainly used with high and narrow sashes.

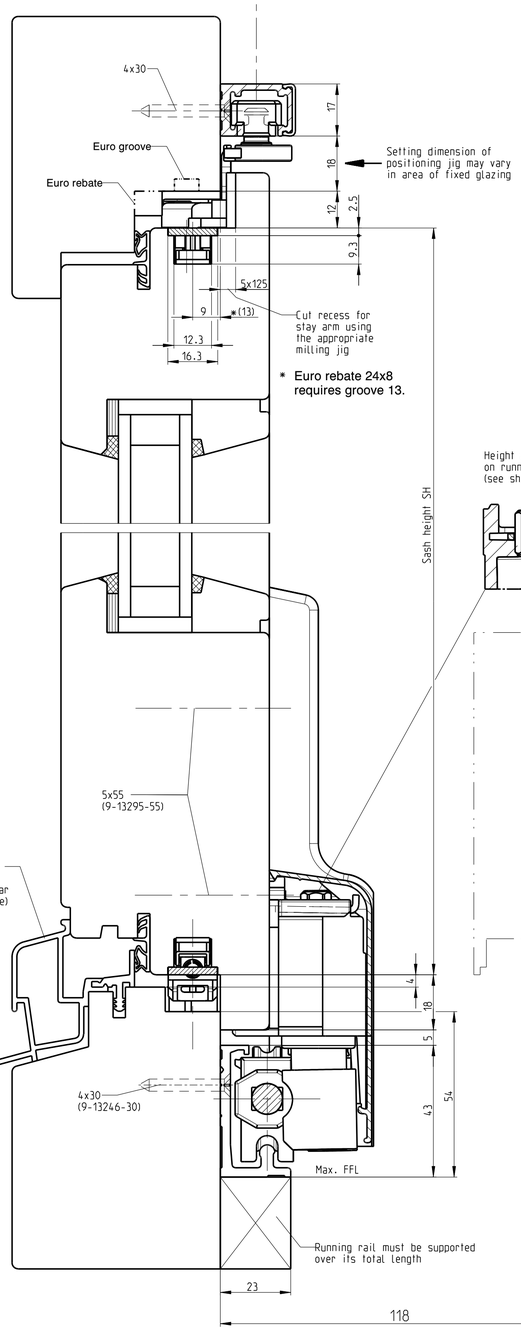


Lock stay arm pin with Allen key size 4 (see mounting instructions item 14)

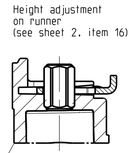


Mounting the stay arm cover



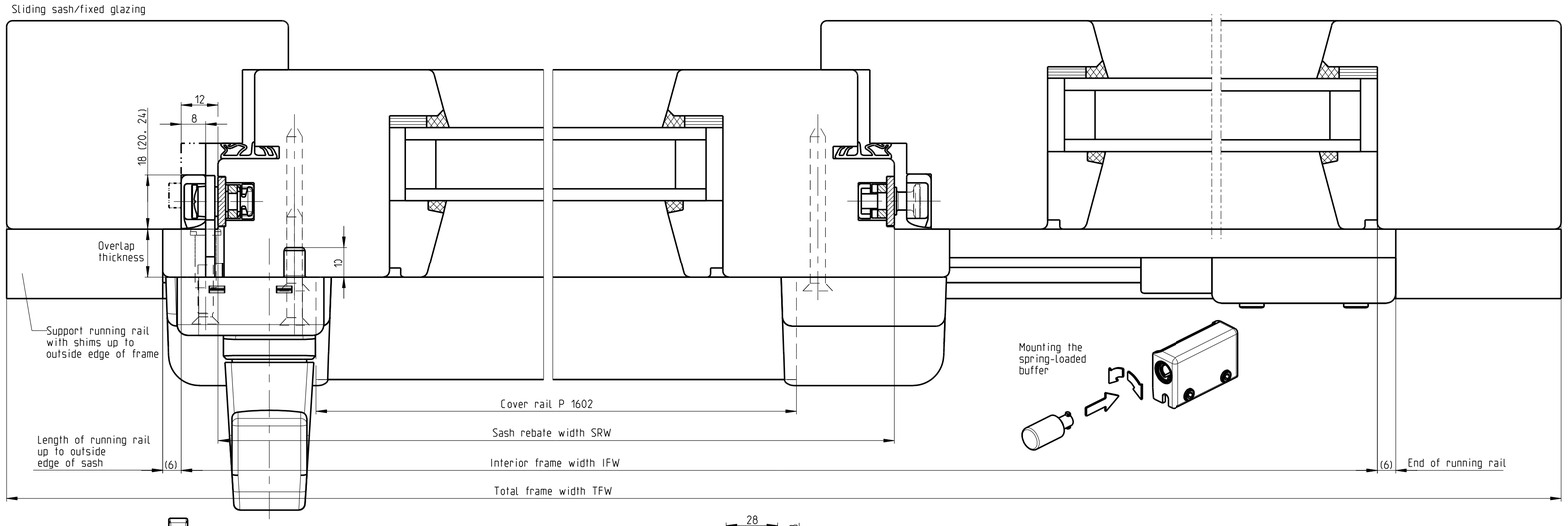


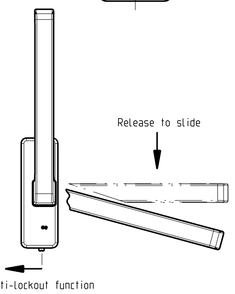
Height adjustment on runner (see sheet 2, item 16)



Scheme A

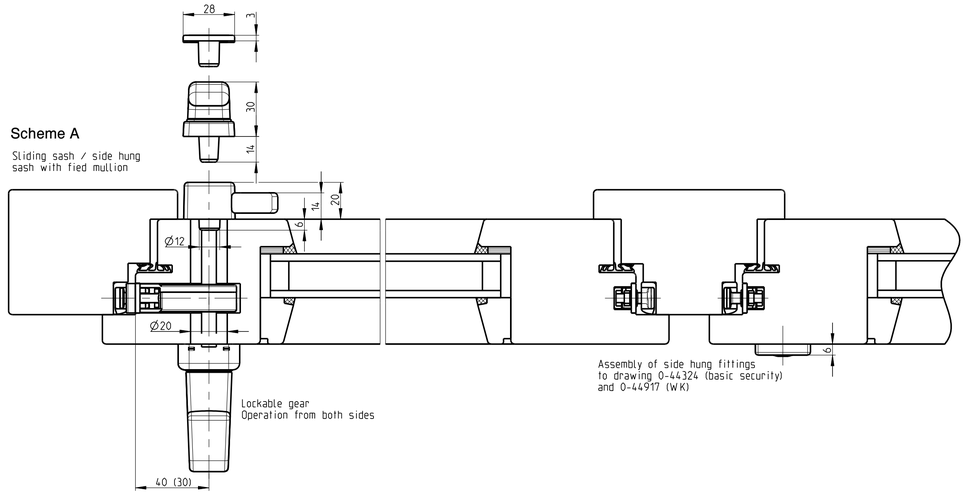
Sliding sash/fixed glazing

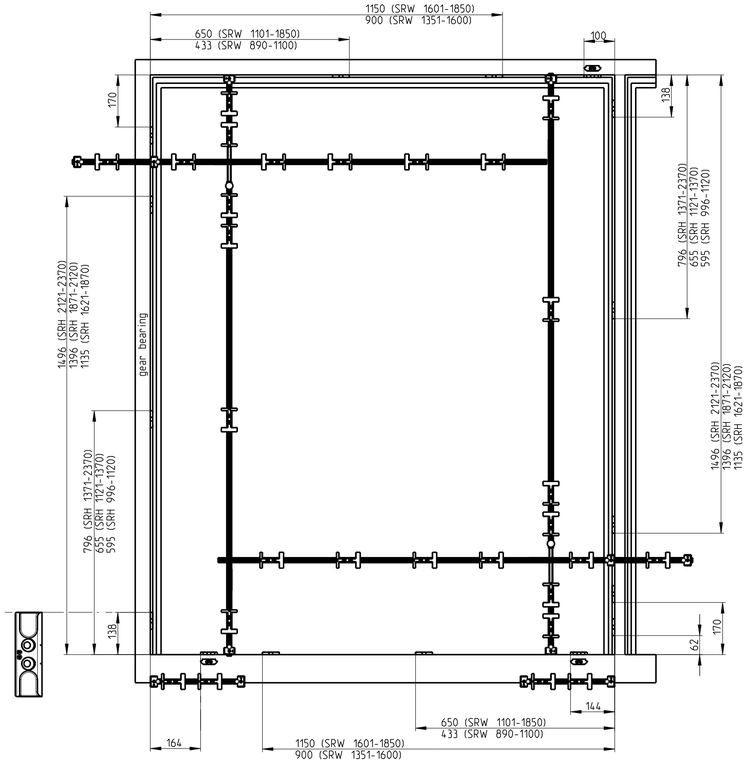


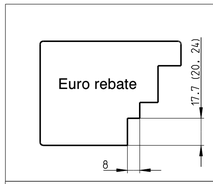


Scheme A

Sliding sash / side hung sash with fied mullion

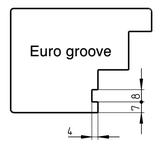






Positioning jigs for locking plates with Euro rebate 18x8, 20x8, and 24x8

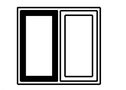
SRH 820-1120	6-32988-04
SRH 1121-1870	6-32988-03
SRH 1871-2370	6-32988-02
SRW 890-2100	6-32988-01
Jig for positioning plates	6-29945-11



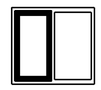
Positioning jigs for locking plates with Euro groove 7/8x4

SRH 820-1120	6-32988-04
SRH 1121-1870	6-32988-03
SRH 1871-2370	6-32988-02
SRW 890-2100	6-32988-01
Jig for positioning plates	6-29945-01

Scheme A / detailed sections



Sliding sash / side hung sash with fixed mullion



Sliding sash/fixed glazing

Description

Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
–

Release No. --	Level	Released		Scale	Modification	Size
Mod. No. G26808	Ver.	--	--	%	4	1
Replacement for --	Draft	02.02.09	Mo		Drawing No. 0-45253-BK-0-GB	Sheet 3/7

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Monting instructions

Drilling and cutting according to specified dimensions, preferably by means of appropriate jigs.

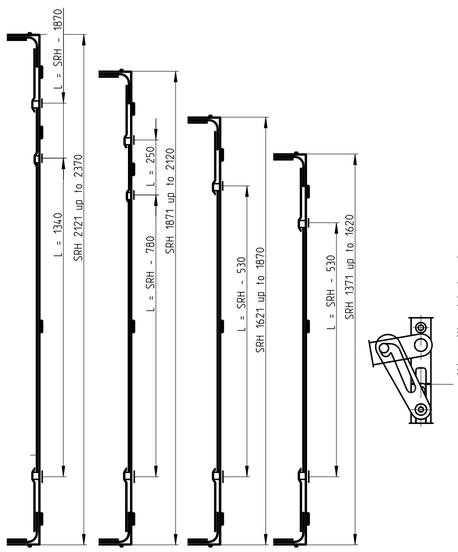
Mounting on sash

All fitting components are mounted in tilt position.

1. Mount corner transmissions (item 9) and stay arms (item 5) and put in tilt (= mounting) position, each.

2. Cut extensions (item 45 and 45 A) to length, engage in stay arms, each, and fasten with screws. For cutting dimensions see illustration below.

3. Cut to length vertical centre piece(s) (item 20) or lockable gear (item 41 or 41A), rebate shoot bolt ZK or ZH (item 65 or 66), and horizontal centre pieces (item 21); Cutting dimensions for centre pieces and extensions see illustration below. Correct mounting position predefined by arresting pin, engage in corner transmission, each, and fasten with screws. Rebate shoot bolt ZH (item 66) to be aligned with notched mark (see illustration below).



4. Mount locking plates (item 77 or 78) with countersunk screws M4 x 10 or Spax 4 x 40 (or similar, as for corner transmission).

With false mullion:

5. Mount the prepared false mullion

6. With rebate shoot bolt ZK (item 65) cut tappets to correspond to width of false mullion (Dim. X).

Example:

Dim X = 28 mm rounded down to the next five = 25 mm; cut carriers to a dimension between 25 mm and 30 mm.

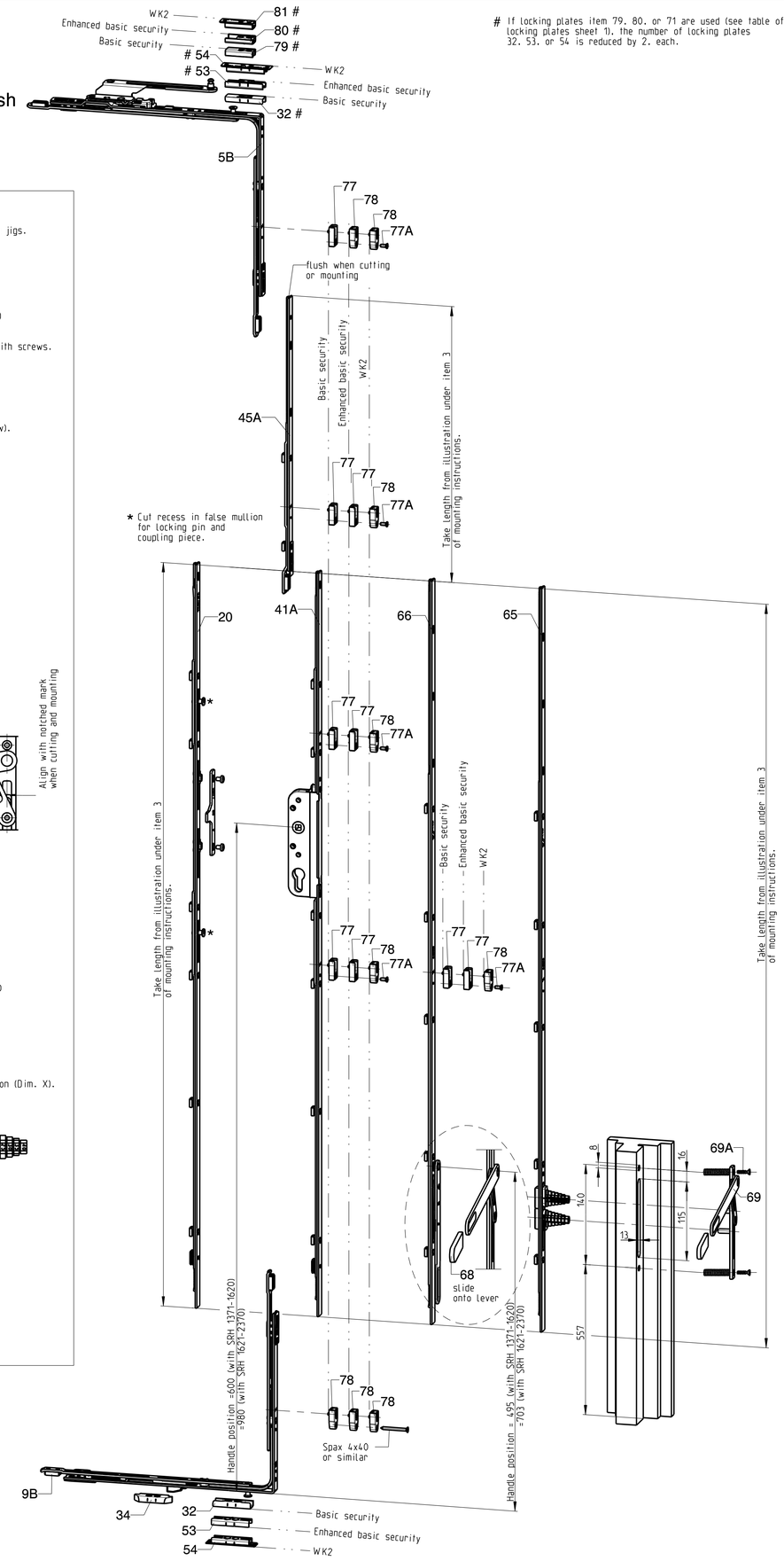
7. Mount rebate shoot bolt ZK (item 65) with lever in horizontal position.

8. Attach locking plates to false mullion with screws.

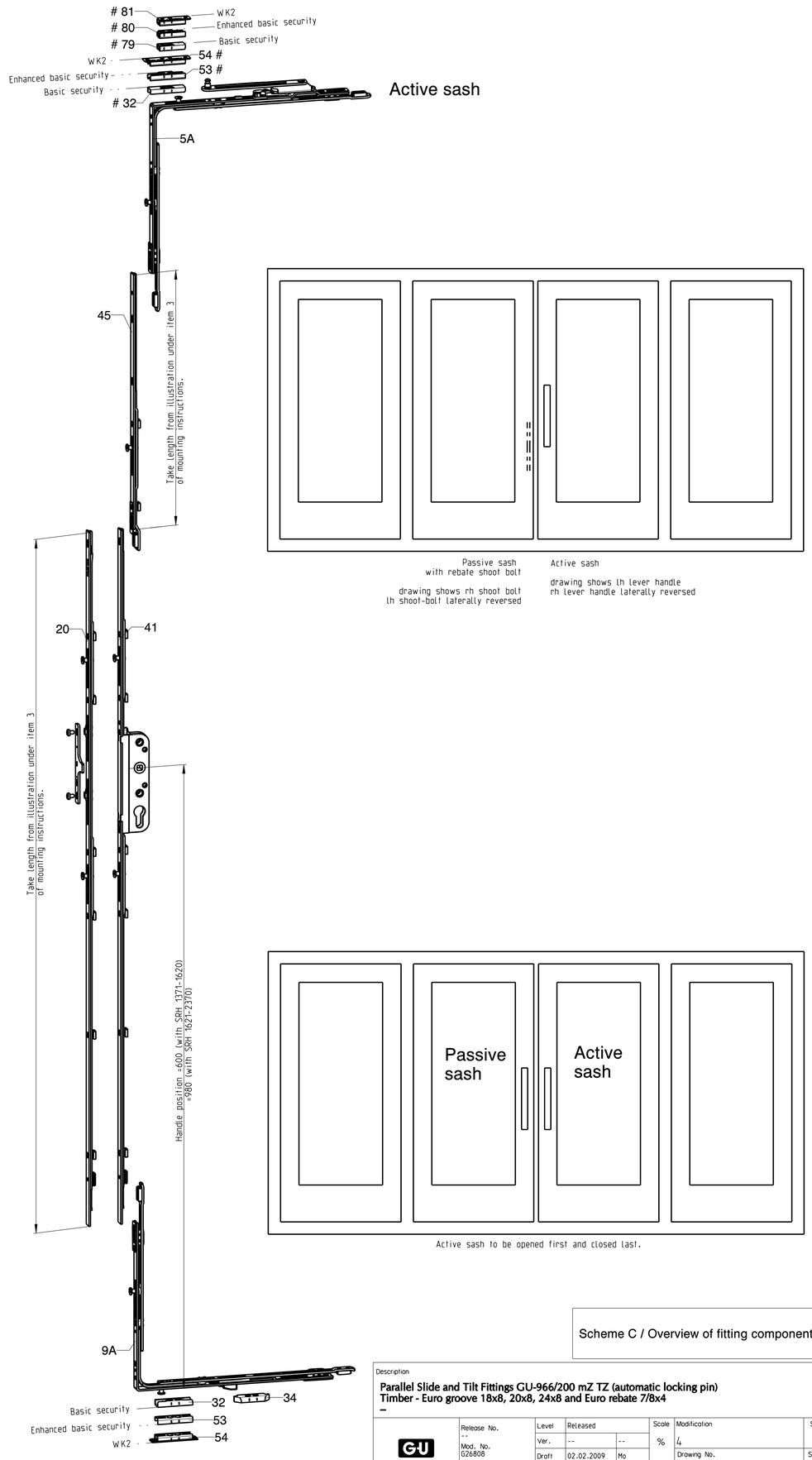
The fastening screws specified are only a recommendation based on our experience.

The responsibility for the appropriate fastening of fitting components rests with the window/ window door fabricator.

Fitting components illustrated in ex factory state.



If locking plates item 79, 80, or 71 are used (see table of locking plates sheet 1), the number of locking plates 32, 53, or 54 is reduced by 2, each.



Passive sash
with rebate shoot bolt

drawing shows rh shoot bolt
lh shoot-bolt laterally reversed

Active sash

drawing shows lh lever handle
rh lever handle laterally reversed

Active sash to be opened first and closed last.

Scheme C / Overview of fitting components

Description

Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
–

GU	Release No. --	Level	Released		Scale %	Modification 4	Size 1
	Mod. No. G26808	Ver.	--	--		Drowing No. 0-45253-BK-0-GB	Sheet 4/7
		Draft	02.02.2009	Mo			
	Replacement for --						

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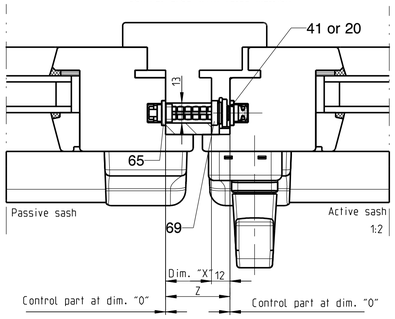
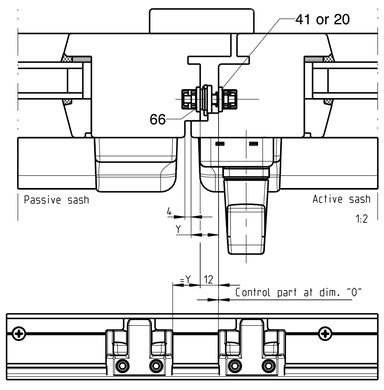
Passive sash with rebate shoot bolt ZK

Central area with false mullion



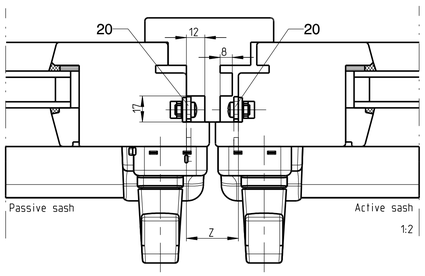
Passive sash with rebate shoot bolt ZH

Central area without false mullion

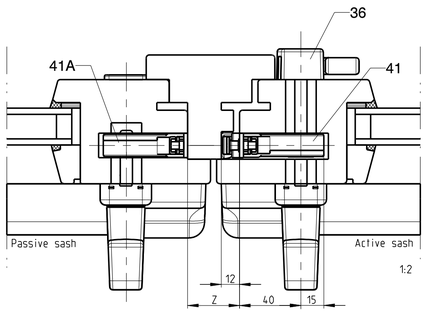


Both sashes with lever handle

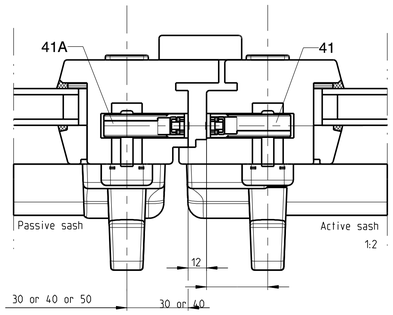
Passive sash with false mullion

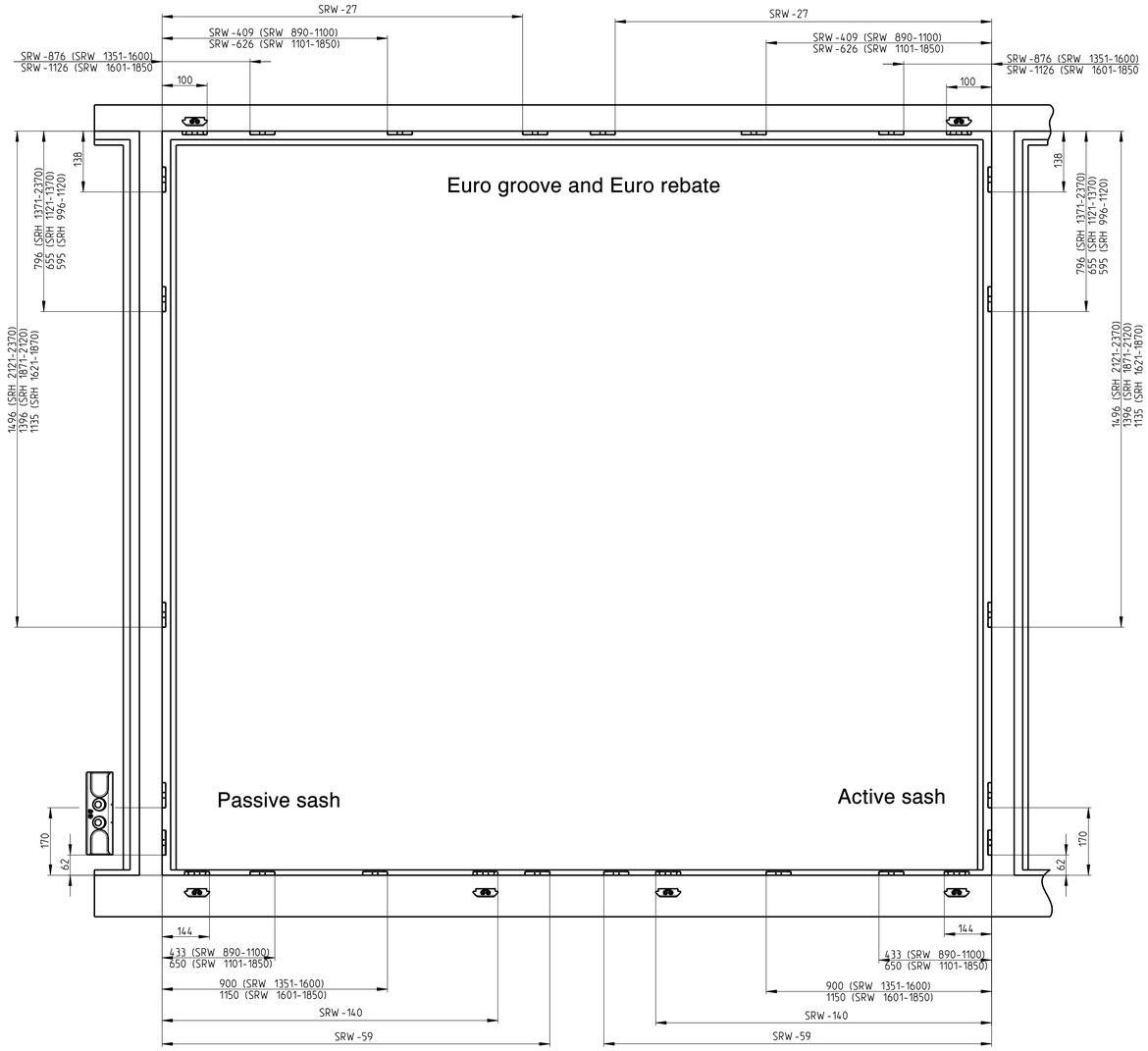


Passive sash with false mullion

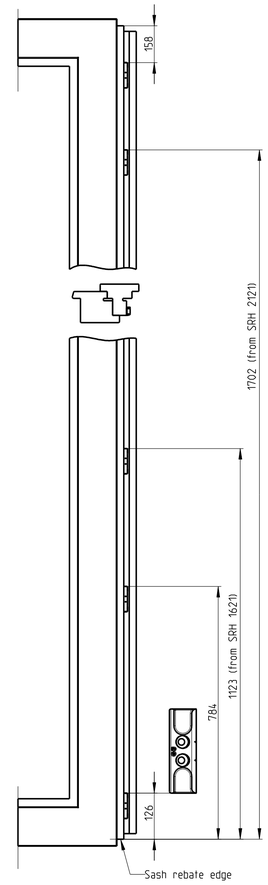


Central area without false mullion

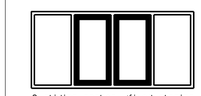




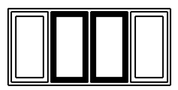
Passive sash with false mullion



Scheme C / Detailed sections



2 sliding sashes /fixed glazing without mullion or
2 sliding sashes /fixed glazing with false mullion



2 sliding sashes / 2 side hung sash without mullion or
2 sliding sashes / 2 side hung sash with false mullion

Description

Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
--

GU	Release No. --	Level	Released		Scale %	Modification 4 / Size 1
	Mod. No. 026808	Ver.	--	--		
		Draft	02.02.2009	Mo		Drawing No. 0-45253-BK-0-GB / Sheet 5/7
	Replacement for --					

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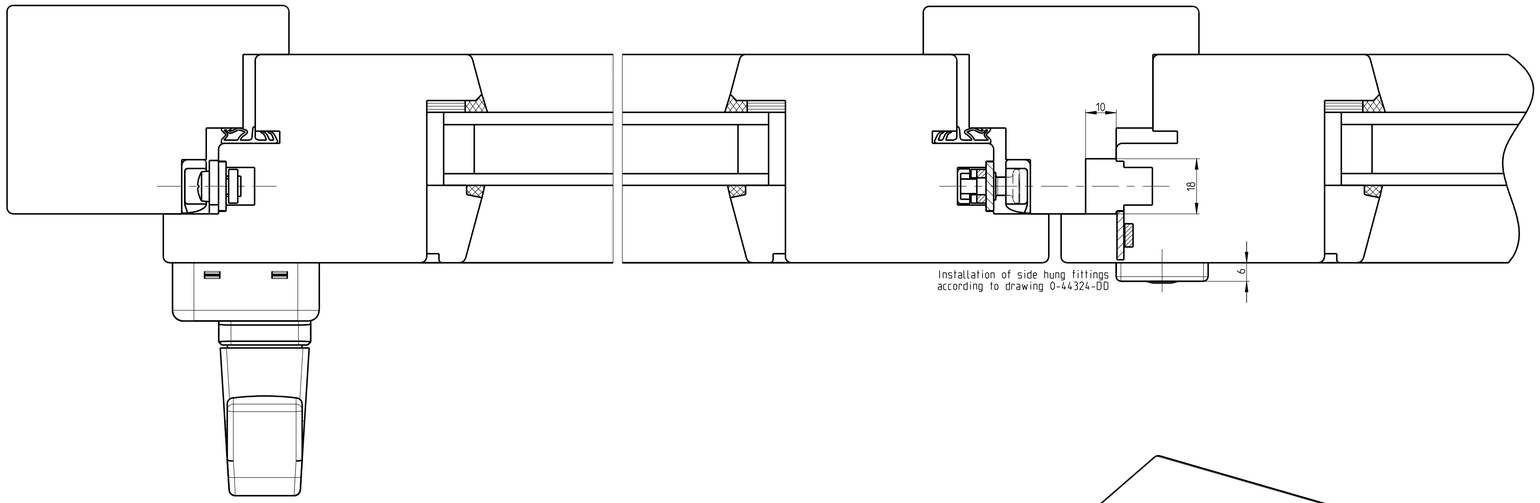

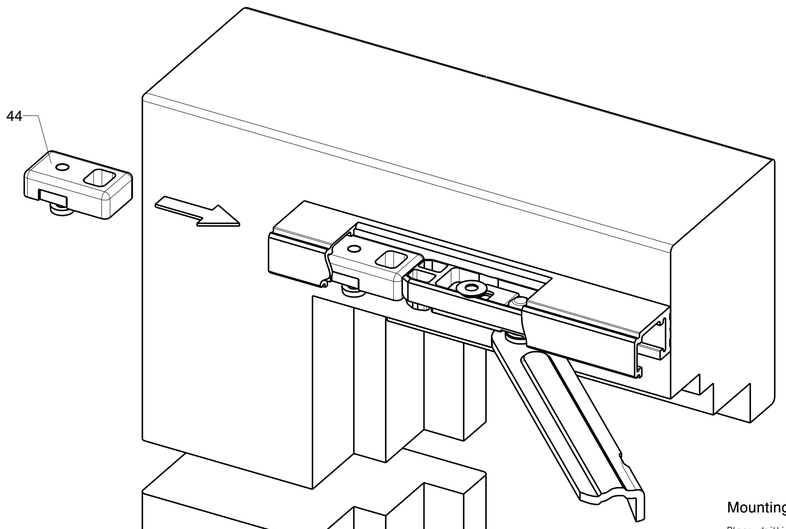

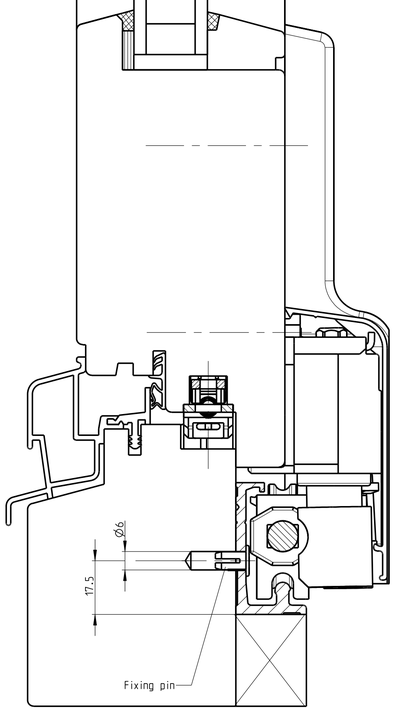

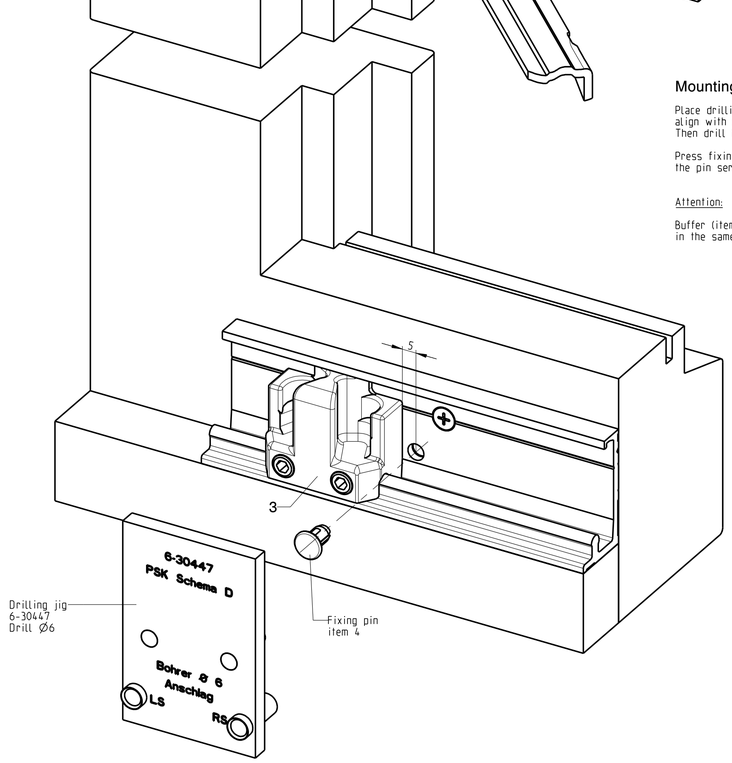

Mounting the fixing pin for Scheme D

Place drilling jig with drilling bushes on running rail.
align with control part and support with pins against the rail.
Then drill the corresponding hole (lh or rh).

Press fixing pin into bore hole. With scheme D,
the pin serves as stop for the shiftable control part.

Attention:

Buffer (item 44) must be loosened and shifted
in the same way as the control part (item 3).

Scheme D

Sliding sash/side hung sash
with false mullion

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Description

Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
--

GU	Release No. --	Level	Released		Scale	Modification	Size
	Mod. No. G26808	Ver.	--	--	1:1	4	1
		Draft	02.02.09	Ho		Drawing No.	Sheet
	Replacement for --					0-45253-BK-0-GB	6/7

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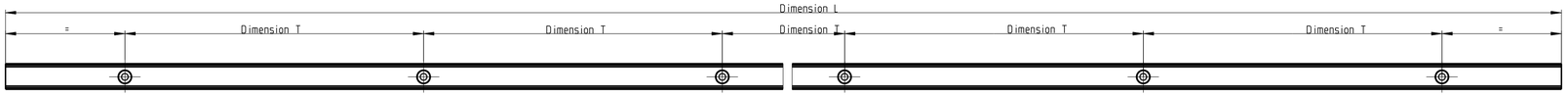
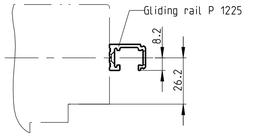
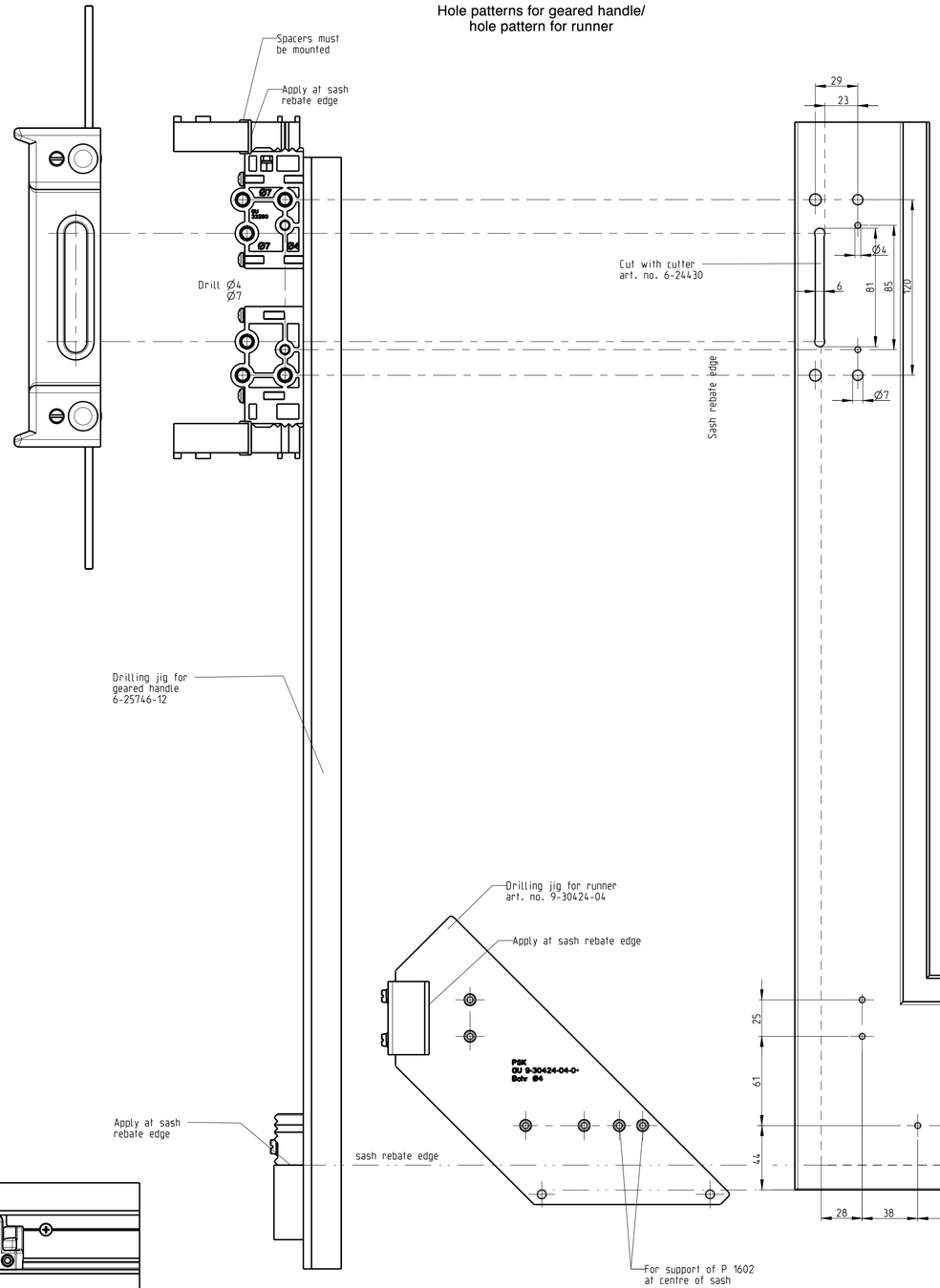


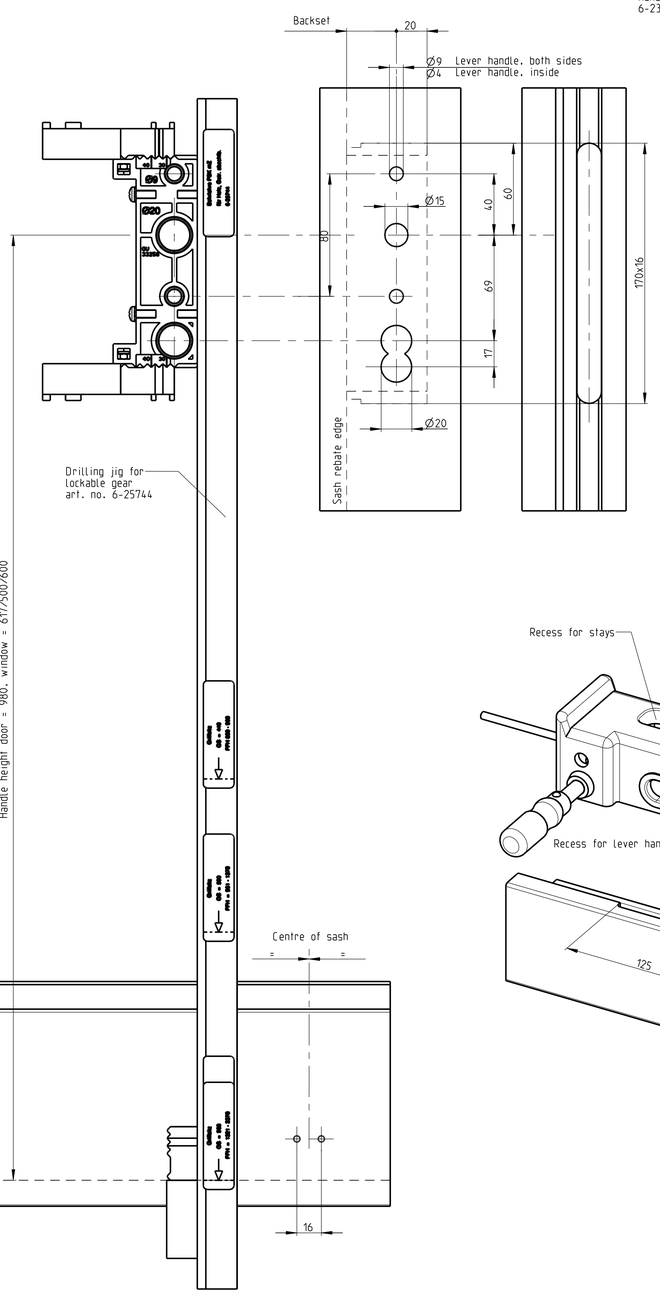


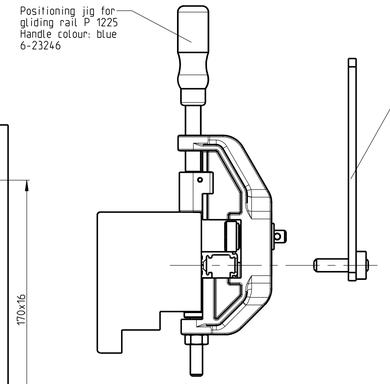
Size	SRW	Dimension L	Number of screw holes	Centres / Dim. T	Application
20	720-850	1960	10	200	Gliding rail P 1225 and running rail P 1213
25	851-1100	2460	13		
30	1101-1350	2960	15		
35	1351-1600	3460	18		
40	1601-1850	3960	20		
67	mill length	6700	34		

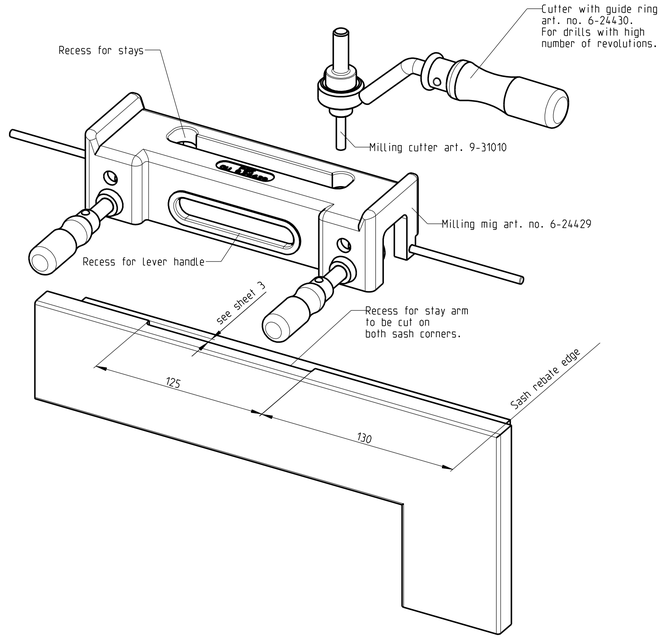
Hole patterns for geared handle/ hole pattern for runner



Hole pattern for lockable gear







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Drilling and milling jigs

Description
Parallel Slide and Tilt Fittings GU-966/200 mZ TZ (automatic locking pin)
Timber - Euro groove 18x8, 20x8, 24x8 and Euro rebate 7/8x4
–

GU	Release No. --	Level	Released		Scale	Modification	Size
		Ver.	--	--	1:2	4	1
	Mod. No. G26808	Draft	02.02.09	Mo		Drawing No.	Sheet
	Replacement for --					0-45253-BK-0-GB	7/7